

May 23, 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 – 4th Quarter 2012
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 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

A handwritten signature in blue ink that reads "Robert B. Billman". The signature is fluid and cursive.

Robert Billman, PG
Senior Project Manager

A handwritten signature in blue ink that reads "Robert E. Mooshegian". The signature is fluid and cursive.

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



Illinois Environmental Protection Agency

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ILLINOIS EPA RCRA CORRECTIVE ACTION CERTIFICATION

This certification must accompany any document submitted to Illinois EPA in accordance with the corrective action requirements set forth in a facility's RCRA permit. The original and two copies of all documents submitted must be provided.

1.0 FACILITY IDENTIFICATION

Name: WRB Refining LP Wood River Refinery County: Madison
 Street Address: 900 South Central Ave. Site No. (IEPA): 1191150002
 City: Roxana Site No. (USEPA): ILD 080 012 305

2.0 OWNER INFORMATION

Name: Not Applicable
 Mailing Address: _____

 Contact Name: _____
 Contact Title: _____
 Phone No.: _____

3.0 OPERATOR INFORMATION

Equilon Enterprises LLC dba Shell Oil Products US (SOPUS)
17 Junction Drive, PMB #399
Glen Carbon, IL 62034

Kevin Dyer
Senior Principal Program Manager
618-288-7237

4.0 TYPE OF SUBMISSION (check applicable item and provide requested information, as applicable)

RFI Phase I Workplan/Report
 RFI Phase II Workplan/Report
 CMP Report; Phase _____
 Other (describe):
Multiple Document Addenda (see attached report list)
Date of Submittal May 2017

IEPA Permit Log No. B-43R
 Date of Last IEPA Letter
 on Project January 18, 2017
 Log No. of Last IEPA
 Letter on Project B-43R-CA-59, -60, -69
 Does this submittal include groundwater information: Yes No

5.0 DESCRIPTION OF SUBMITTAL: (briefly describe what is being submitted and its purpose)

Addenda to multiple documents. List of documents is provided on the Attachment 1. Addenda being issued due to revised laboratory reports.

6.0 DOCUMENTS SUBMITTED (identify all documents in submittal, including cover letter; give dates of all documents)

Cover letter, RCRA Corrective Action Certification, Addenda to multiple documents identified on the attached list.

7.0 CERTIFICATION STATEMENT - (This statement is part of the overall certification being provided by the owner/operator, professional and laboratory in Items 7.1, 7.2 and 7.3 below). The activities described in the subject submittals have been carried out in accordance with procedures approved by Illinois EPA. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

IEPA RCRA Corrective Action Certification

For: Multiple document addenda (see attached)

Date of Submission: May 2017

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7.1 **OWNER/OPERATOR CERTIFICATION** (Must be completed for all submittals. Certification and signature requirements are set forth in 35 IAC 702.126.) All submittals pertaining to the corrective action requirements set forth in a RCRA Permit must be signed by the person designated below (or by a duly authorized representative of that person):

1. For a Corporation, by a principal executive officer of at least the level of vice-president.
2. For a Partnership or Sole Proprietorship, by a general partner or the proprietor, respectively.
3. For a Governmental Entity, by either a principal executive officer or a ranking elected official.

A person is a duly authorized representative only if:

1. the authorization is made in writing by a person described above; and
2. the written authorization is provided with this submittal (a copy of a previously submitted authorization can be used).

Owner Signature: _____ (Date) _____

Title: _____

Operator Signature: *Kevin Edger* _____ 5/17/18 _____ (Date)

Title: Senior Principal Program Manager

7.2 **PROFESSIONAL CERTIFICATION (if necessary)** - Work carried out in this submittal or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. No one is relieved from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Professional's Signature: *Robert B. Billman* _____ 5/17/17 _____ (Date)

Professional's Name: Robert B. Billman

Professional's Address: AECOM Technical Services, Inc.

1001 Highlands Plaza Drive West, Suite 300

St. Louis, MO 63110

Professional's Phone No.: 314-429-0100



7.3 **LABORATORY CERTIFICATION (if necessary)** - The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory: See Attachment 2

Signature of Laboratory Responsible Officer _____ Date _____

Mailing Address of Laboratory: _____

Name and Title of Laboratory Responsible Officer _____

**Attachment 1
List of Documents**

Submittal	Date of Submittal
Roxana 3Q12 Groundwater Monitoring Report	10/15/2012
Roxana 4Q12 Groundwater Monitoring Report	1/15/2013
Roxana 4Q13 Soil Vapor Report	1/31/2014
Roxana 1Q14 Soil Vapor Report	4/30/2014
Roxana 2Q14 Soil Vapor Report	7/30/2014
Roxana 3Q14 Soil Vapor Report	10/30/2014
Roxana 2Q15 Soil Vapor Report	7/29/2015
GWP-28 Installation Plan	11/27/2012
Public Work Yard Soil Sampling Report	3/13/2013
GW Monitoring Well and Vapor Monitoring Point Installation Report	4/3/2013
April 30, 2013-Groundwater Profile Delineation Report	4/30/2013
Addendum to Monitoring Well & Vapor Monitoring Point Installation Report - Supplemental Investigation Activities	5/22/2013
SVE Expansion-Construction Completion Rpt Addendum 2	1/9/2014
SVE System Construction Completion Rpt Addendum 3	3/4/2015

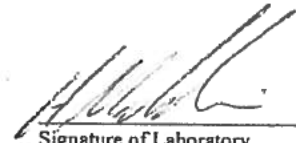
Note: Highlighted row represents subject Addendum

ATTACHMENT 2

LABORATORY CERTIFICATION

Revisions to previously reported laboratory data were required following a laboratory quality review. These revisions were performed in accordance with industry standards for testing laboratories accredited by the National Environmental Laboratory Accreditation Conference (NELAC). I certify the information contained in the revised and reissued laboratory reports are, to the best of my knowledge and belief, true, accurate and complete.

Name of Laboratory: SGS Accutest


 Signature of Laboratory Responsible Officer

5.17.17
Date

Mailing Address of Laboratory:

Hossain (BAPU) MADADIAN
 Name and Title of Laboratory Responsible Officer
LAB Director

50 D'Angelo Drive

495 Technology Center West, Building 1

Marlboro, MA 01752

LEGAL REVIEWED
 BY: TMP
 DATE: 5.17.17

Laboratory Report (Sample Delivery Group[SDG])			
mc12669	mc23880	mc17144	mc18856
mc12784	mc26889	mc17324	mc18890
mc12833	mc27073	mc17401	mc18895
mc12905	mc23933	mc16336	mc18752
mc12941	mc32497	mc16445	mc24546
mc12942	mc32521	mc16475	mc32549
mc13051	mc38153	mc16587	mc32591
mc15232	mc38192	mc16644	mc32628
mc15892	mc14777	mc16798	mc32660
mc16960	mc14814	mc16889	mc32763
mc23682	mc16999	mc17501	mc33045

May 16, 2017

Analytical Method	Sample ID	Lab Sample ID	Sample Date	Analyte	Original Result	Corrected Result	Laboratory Qualifier	Units	Laboratory Footnote	AECOM Qualifier
SW846 8260B	MW6A-ROX-102412	MC15232-1	10/24/2012	Acetone	120	120		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260B	P114-ROX-110912	MC15892-1	11/09/2012	Acetone	14.4	14.4		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.	J
SW846 8260B	P114-ROX-110912	MC15892-1	11/09/2012	1,4-Dioxane	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW10-ROX-121712	MC16960-2	12/17/2012	Acrolein	ND	ND		ug/l	Ana: Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.	UJ
SW846 8260B	MW1-ROX-121712	MC16960-3	12/17/2012	Acrolein	ND	ND		ug/l	Ana: Initial 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.

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

						VOCs																
Screening Values (mg/L)						6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²				0.005 ⁴	0.7 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
MW-01	MW-1-111110	11/11/2010	43.41 - 58.41	36.91	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW-1-111110-Dup	11/11/2010		36.91	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW1-ROX-011711	1/17/2011		37.58	NE	<0.039 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	
	MW1-ROX-042911	4/29/2011		38.37	NE	<0.0145 U	0.0363	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.005	0.0053	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005
	MW1-ROX-120511	12/5/2011	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	<0.025	<0.001	<0.005	
	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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	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	<0.025	<0.001	<0.005	
	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	<0.025	<0.001	<0.005	
	MW1-ROX-102612	10/26/2012	48.80 - 58.80	41.22	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
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	<0.025	<0.001	<0.005		
MW-02	MW-2-111010	11/11/2010	47.19 - 62.19	38.12	NE	<0.5	0.401	<0.025	<0.025	<0.025	<0.25	<0.025	<0.025	<0.05	<0.025	<0.05	<0.025	<0.025		0.641		
	MW2-ROX-011711	1/17/2011		38.67	NE	<0.005	0.294	0.0078	0.0047 J	<0.005	<0.005	<0.001	<0.001	0.0077	<0.001	0.0019 J	<0.005	0.0032 J		0.74		
	MW02-ROX-051011	5/10/2011		39.14	NE	<0.005	1.18	<0.005	0.0029 J	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0027 J	<0.025	1.24	<0.005	
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.05	1.98	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	1.76	<0.05	
	MW2-ROX-072711-DUP	7/27/2011	37.04	NE	<0.05	1.79	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	1.57	<0.05		
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	0.0216	<0.005	0.0106	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0121	<0.025	0.503	<0.005	
	MW2-ROX-011612	1/16/2012	38.89	NE	<0.025	0.0161	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025	<0.13	0.777	<0.025		
	MW2-ROX-050112	5/1/2012	40.25	NE	<0.025	0.0145	<0.025	0.0068 J	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	0.008 J	<0.13	0.948	<0.025		
MW2-ROX-073012	7/30/2012	40.60	NE	<0.005	0.01	<0.005	0.0078	0.001 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.009	<0.025	0.952	<0.005			
MW2-ROX-102612	10/26/2012	49.87 - 59.87	42.35	NE	<0.025 UJ	0.0142	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	0.0172 J	<0.025	<0.13	0.763	<0.025		
MW-03	MW-3-111210	11/12/2010	30.98 - 45.98	24.05	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW3-ROX-011811	1/18/2011		24.92	NE	<0.005	0.00056	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.00077 J	<0.001	0.00082 J	<0.005	<0.005		0.00082 J		
	MW03-ROX-051011	5/10/2011		24.79	NE	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.005	0.00056	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW3-ROX-112911-DUP	11/29/2011	24.06	NE	<0.005	0.00052	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	MW3-ROX-011612	1/16/2012	24.93	NE	<0.005	0.00091	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	MW3-ROX-043012	4/30/2012	26.19	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
MW3-ROX-072712	7/27/2012	26.60	NE	<0.005 UJ	0.0089	<0.005	<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	<0.005		
MW3-ROX-102512	10/25/2012	34.67 - 44.67	28.39	NE	<0.005 UJ	0.0017	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
MW-04	MW-4-111210	11/12/2010	42.63 - 57.63	35.38	NE	<0.1	0.0752	<0.005	0.001 J	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW4-ROX-011811	1/18/2011		36.04	NE	<0.005	0.0567	0.0006 J	0.00063 J	0.00069 J	<0.005	<0.001	<0.001	0.00096 J	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW04-ROX-051111	5/11/2011		36.19	NE	<0.005	0.0625	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.005	0.114	<0.005	0.0058	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0023	<0.005	
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.005	0.108	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0021	<0.005	
	MW4-ROX-121511	12/15/2011	33.99	NE	<0.005	0.0381	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	<0.005	0.115	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	0.0017 J	
	MW4-ROX-050312	5/3/2012	37.45	NE	<0.005	0.0941	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	MW4-ROX-050312-DUP	5/3/2012	37.45	NE	<0.063 U	0.0933	<0.005	<0.005	0.0012 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	MW4-ROX-072512	7/25/2012	37.63	NE	<0.005	0.191	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00082 J	<0.005		
MW4-ROX-072512-Dup	7/25/2012	37.63	NE	<0.005	0.199	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	<0.025	0.00083 J	<0.005			
MW4-ROX-102912	10/29/2012	46.06 - 56.06	39.45	NE	<0.01 UJ	0.354	<0.01	<0.01	<0.01	<0.01	<0.002	<0.002	<0.004	<0.002	<0.004 UJ	<0.01	<0.01	<0.05	<0.002	<0.01		

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

Screening Values (mg/L)						VOCs																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
						6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²				0.005 ⁴	0.7 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
MW-05	MW-5-111210	11/12/2010	31.13 - 46.13	23.32	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW5-ROX-011811	1/18/2011		24.15	NE	<0.0344 U	0.0048	<0.005	<0.005	0.0014 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW05-ROX-051211	5/12/2011		23.98	NE	<0.005 UJ	0.0055	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.005	0.0222	0.0054	0.0061	0.0078	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.005	0.0221	0.0054	0.0061	0.0078	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.005	0.0442	<0.005	<0.005	0.0057	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.005	0.0532	<0.005	0.0029 J	0.0073	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0014 J	<0.025	<0.001	<0.005	
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005	0.0925	<0.005	0.0015 J	0.007	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.00099 J	<0.025	<0.001	<0.005	
	MW5-ROX-102912	10/29/2012		33.97 - 43.97	28.16	NE	<0.005 UJ	0.0628	<0.005	<0.005	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005
MW-06A	MW-6A-110910	11/9/2010	31.98 - 46.98	25.62	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW6A-ROX-011911	1/19/2011		26.36	NE	<0.0135 U	0.0113	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW6A-ROX-051611	5/16/2011		26.10	NE	<0.005 UJ	0.0031	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6A-ROX-072611	7/26/2011		23.76	NE	<0.005 UJ	0.0032	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6A-ROX-112111	11/21/2011		25.49	NE	<0.0059 UJ	0.0105 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	<0.005	
	MW6A-ROX-112111-DUP	11/21/2011	34.83 - 44.83	25.49	NE	<0.005 UJ	0.0137 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	<0.005	
	MW6A-ROX-011712	1/17/2012		26.74	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6A-ROX-050212	5/2/2012		27.77	NE	<0.005	0.00077	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6A-ROX-080112	8/1/2012		28.36	NE	<0.005	0.0016	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6A-ROX-102412	10/24/2012		34.83 - 44.83	30.06	NE	<0.12 UJ	0.00073	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005
MW-06B	MW-6B-111610	11/16/2010	64.05 - 69.05	25.47	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW6B-ROX-011911	1/19/2011		26.21	NE	<0.005	0.0082	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW6B-ROX-011911-DUP	1/19/2011		26.21	NE	<0.005	0.0082	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW6B-ROX-051611	5/16/2011		25.95	NE	<0.005 UJ	0.0033	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.005 UJ	0.0033	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6B-ROX-072311	7/23/2011	64.05 - 69.05	23.60	NE	<0.005 UJ	0.0022	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6B-ROX-110311	11/3/2011		24.67	NE	<0.05	0.961	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02 UJ	<0.05	<0.05	<0.25	<0.01	<0.05	
	MW6B-ROX-011712	1/17/2012		26.77	NE	<0.005	0.0013	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6B-ROX-050212	5/2/2012		27.82	NE	<0.005	0.00086	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	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	<0.025	<0.001	<0.005
MW6B-ROX-102412	10/24/2012	64.05 - 69.05	30.11	NE	<0.005 UJ	0.0015	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
MW-06C	MW-6C-111610	11/16/2010	84.95 - 89.95	25.25	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW6C-ROX-012111	1/21/2011		25.97	NE	<0.005	0.0085	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW6C-ROX-051611	5/16/2011		25.76	NE	<0.005 UJ	0.0071	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.005 UJ	0.0027	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6C-ROX-110311	11/3/2011		24.47	NE	<0.005	0.0017	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6C-ROX-011712	1/17/2012		26.50	NE	<0.005	0.0028	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6C-ROX-050212	5/2/2012		27.62	NE	<0.005	0.0015	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW6C-ROX-080112	8/1/2012		28.15	NE	<0.003 UJ	0.00061	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
MW6C-ROX-102412	10/24/2012	84.95 - 89.95	27.85	NE	<0.005 UJ	0.00035 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		

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

						VOCs																
Screening Values (mg/L)						6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²				0.005 ⁴	0.7 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
MW-06D	MW-6D-111610	11/16/2010	104.72 - 109.72	25.13	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW6D-ROX-012111	1/21/2011		25.87	NE	<0.005	0.0104	<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	
	MW6D-ROX-051611	5/16/2011		25.60	NE	<0.005 UJ	0.002	<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	<0.025	<0.001	<0.005
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.005 UJ	0.0027	<0.005	<0.005	<0.005	<0.005	0.007	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005
	MW6D-ROX-110311	11/3/2011		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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	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	<0.005	
	MW6D-ROX-102412	10/24/2012	104.72 - 109.72	29.71	NE	<0.005 UJ	0.00055	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
MW-07	MW-7-111710	11/17/2010	42.92 - 52.92	36.93	NE	<25	928 D	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		<1.25		
	MW-7-111710-Dup	11/17/2010		36.93	NE	<25	876 D	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		<1.25		
	MW7-ROX-012511	1/25/2011		37.52	NE	<0.005 UJ	1150 J	0.0015 J J	0.0011 J J	0.0012 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		0.0325 J		
	MW07-ROX-051311	5/13/2011		37.50	NE	<0.005 UJ	1030 J	<0.005 UJ	0.0011 J J	0.0016 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	<0.025 UJ	0.0494 J	<0.005 UJ	
	MW07-ROX-051311D	5/13/2011		37.50	NE	<0.005	922 J	<0.005	0.0013 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0487	<0.005	
	MW7-ROX-072411	7/24/2011		35.65	NE	<25 UJ	1840	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<130	<5	<25	
	MW-7-ROX-110211	11/2/2011		35.95	NE	<5	774	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<25	<1	<5	
	MW7-ROX-011812	1/18/2012		38.10	NE	<0.166 U	1330 J	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	<0.025	0.0727	<0.005	
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.146 U	1110	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	<0.025	0.0718	<0.005	
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.5	738	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	<0.1	<0.5	
	MW7-ROX-080712	8/7/2012		39.50	NE	0.199 J	591 J	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	0.0619	<0.05	
	MW7-ROX-103012	10/30/2012		42.92 - 52.92	41.23	NE	<10 UJ	833	<10	<10	<10	<10	<2	<2	<4	<2	<4 UJ	<10	<10	<50	<2	<10
	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	<50	<2	<10	
MW-08	MW-8-111710	11/17/2010	33.60 - 43.60	27.84	NE	<25	965 D	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		<1.25		
	MW8-ROX-012511	1/25/2011		28.59	NE	<0.0469 U	986	0.0021 J J	0.0014 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.0012 J J		0.234 J		
	MW8-ROX-012511-DUP	1/25/2011		28.59	NE	<0.0403 U	1030	0.002 J J	0.0014 J J	<0.005 UJ	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.002 UJ	<0.001 UJ	<0.002 UJ	<0.005 UJ	0.001 J J		0.237 J		
	MW08-ROX-051311	5/13/2011		28.35	NE	<50	1310	<50	<50	<50	<50	<10	<10	<20	<10	<20	<50	<50	<250	<10	<50	
	MW08-ROX-051311D	5/13/2011		28.35	NE	<5	952 J	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<25	<1	<5	
	MW8-ROX-072411	7/24/2011		26.02	NE	<25	1650	<25	<25	<25	<25	<5	<5	<10	<5	<10 UJ	<25	<25	<130	<5	<25	
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	<25 UJ	1860	<25	<25	<25	<25	<5	<5	<10	<5	<10	<25	<25	<130	<5	<25	
	MW-8-ROX-110211	11/2/2011		27.02	NE	<5	934	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<25	<1	<5	
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.005	386	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	<0.025	0.285	<0.005	
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.5	1070	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.393	<0.5	
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.5	1040	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.396	<0.5	
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.378 UJ	397 J	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.5	0.249	<0.1	
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.235 UJ	653 J	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	0.232	<0.05	
	MW8-ROX-103012	10/30/2012	33.60 - 43.60	32.32	NE	<5 UJ	523	<5	<5	<5	<5	<1	<1	<2	<1	<2 UJ	<5	<5	<25	<1	<5	

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

						VOCs																
Screening Values (mg/L)						6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²					0.005 ⁴	0.7 ¹	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
MW-09	MW-9-111510	11/15/2010	46.45 - 56.45	39.00	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW9-ROX-012111	1/21/2011		39.62	NE	<0.005	0.0037	<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	
	MW09-ROX-050611	5/6/2011		40.12	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 UJ	<0.005	<0.005	<0.025	<0.001	<0.005
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.005 UJ	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	<0.025	<0.001	<0.005
	MW9-ROX-110111	11/1/2011		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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	MW9-ROX-072712	7/27/2012	41.30	NE	<0.005 UJ	0.00058	<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	<0.005	
MW9-ROX-102912	10/29/2012	46.45 - 56.45	43.17	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005		
MW-10	MW-10-111010	11/10/2010	44.43 - 54.43	38.97	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW10-ROX-012411	1/24/2011		39.40	NE	<0.0122 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	
	MW10-ROX-012411-DUP	1/24/2011		39.40	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	
	MW10-ROX-042811	4/28/2011		40.20	NE	<0.0088 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	<0.025	<0.001	<0.005
	MW10-ROX-072311	7/23/2011		38.01	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	<0.025	<0.001	<0.005
	MW10-ROX-110111	11/1/2011		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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005	
	MW10-ROX-072712	7/27/2012	41.21	NE	<0.005 UJ	0.00058	<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	<0.005	
	MW10-ROX-102612	10/26/2012	44.43 - 54.43	43.08	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
MW10-ROX-121712	12/17/2012	44.43 - 54.43	43.08	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	0.00095 J	<0.002	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
MW-11	MW-11-111710	11/17/2010	41.66 - 51.66	36.39	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	MW11-ROX-012411	1/24/2011		37.15	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW11-ROX-050611	5/6/2011		37.60	NE	<0.005	0.00041 J	<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	<0.025	<0.001	<0.005
	MW11-ROX-072411	7/24/2011		34.3	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	<0.025	<0.001	<0.005
	MW-11-ROX-110211	11/2/2011		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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	MW11-ROX-072712	7/27/2012	38.90	NE	<0.005 UJ	0.00073	<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	<0.005	
MW11-ROX-102512	10/25/2012	41.66 - 51.66	40.59	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
MW-12	MW-12-111510	11/15/2010	41.92 - 51.92	36.63	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	0.00161 J	<0.01	<0.005	<0.005		<0.005		
	MW12-ROX-012411	1/24/2011		37.42	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW12-ROX-051211	5/12/2011		37.58	NE	<0.005 UJ	0.0016	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005 UJ	<0.025	<0.001	<0.005	
	MW-12-ROX-110211	11/2/2011		35.70	NE	<0.005	0.0012	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.005	0.0014	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW12-ROX-011712	1/17/2012		37.70	NE	<0.005	0.0023	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW12-ROX-011712-DUP	1/17/2012		37.70	NE	<0.005	0.0028	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW12-ROX-043012	4/30/2012		38.98	NE	<0.005	0.00066	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW12-ROX-072712	7/27/2012	39.22	NE	<0.005 UJ	0.0013	<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	<0.005		
MW12-ROX-102512	10/25/2012	41.92 - 51.92	40.95	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		

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

						VOCs																
Screening Values (mg/L)						6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²					0.005 ⁴	0.7 ¹	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
MW-13	MW13-ROX-012511	1/25/2011	25.57 - 35.57	24.28	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	MW13-ROX-051311	5/13/2011		23.65	NE	<0.005 UJ	0.0005 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	<0.025	<0.001	<0.005
	MW13-ROX-080311	8/3/2011		21.67	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	<0.025	<0.001	<0.005
	MW13-ROX-110311	11/3/2011		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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	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	<0.025	<0.001	<0.005
	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	<0.025 UJ	<0.001 UJ	<0.005 UJ	
MW13-ROX-110812	11/8/2012	25.57 - 35.57	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	<0.025	<0.001	<0.005	
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	MW14-ROX-051012	5/10/2012		NM	NE	<0.005	0.009	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	<0.025	<0.001	<0.005	
	MW14-ROX-080312	8/3/2012		NM	NE	<0.005	0.0131	0.0015 J	0.0027 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.00065 J	<0.005	
	MW14-ROX-103112	10/31/2012	33.42 - 43.42	32.02	NE	<0.005 UJ	0.00093	<0.005	0.0028 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
P-54	P-54-111710	11/17/2010	38.00 - 63.00	36.43	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	P54-ROX-012411	1/24/2011		37.24	NE	<0.0048 U	<0.00039 U	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001		
	P54-ROX-051111	5/11/2011		37.37	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P54-ROX-072411	7/24/2011		35.38	NE	<0.005 UJ	0.0023	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002 UJ	<0.001	<0.002	<0.005	<0.005 UJ	<0.025	<0.001	<0.005	
	P54-ROX-110311	11/3/2011		35.49	NE	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	P54-ROX-011712	1/17/2012		37.17	NE	<0.005	0.0025	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P54-ROX-050412	5/4/2012		38.77	NE	<0.005	0.00082	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P54-ROX-080212	8/2/2012		38.95	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005		<0.001	<0.005	
P54-ROX-103012	10/30/2012	38.00 - 63.00	40.70	NE	<0.005 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0143	<0.005	
	P55-ROX-011912	1/19/2012		41.09	NE	<0.005	<0.197 U	<0.005	0.0036 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0656	<0.005	
	P55-ROX-011912-D	1/19/2012		41.09	NE	<0.005	<0.202 U	<0.005	0.0038 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0683	<0.005	
	P55-ROX-050912	5/9/2012		42.44	NE	<0.005	0.388	0.0099	0.0093	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0031 J	<0.025	0.41	<0.005	
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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.457 J	<0.005	
	P56-ROX-011912	1/19/2012		41.81	NE	<0.005	0.335	<0.005	0.0035 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.227	<0.005	
	P56-ROX-050812	5/8/2012		43.09	NE	<0.23 U	0.144	0.0086	0.0051	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	0.0069	<0.005	0.0044 J	<0.025	1.14	<0.005	
	P56-ROX-080612	8/6/2012		43.60	NE	<0.025 UJ	0.164	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.025	<0.025		0.101	<0.025	
	P56-ROX-103112	10/31/2012		44.80	NE	<0.005 UJ	0.176	<0.005	0.005	0.0021 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0041 J	<0.025	1.29	<0.005	
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	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.1	<0.5	
	P57-ROX-021312	2/13/2012		42.13	NE	<2.5 UJ	126	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	0.719	<2.5	
	P57-ROX-050712	5/7/2012		42.92	NE	<0.5	147	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.07	<0.5	
	P57-ROX-080612	8/6/2012		43.53	NE	<0.25 UJ	99.4 J	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25		0.795	<0.25	
	P57-ROX-080612-DUP	8/6/2012		43.53	NE	<0.005 UJ	106 J	<0.005	0.0107	0.0124	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0109		0.759 E	<0.005	
	P57-ROX-110512	11/5/2012		44.98	NE	<2.5	142	<2.5	<2.5	<2.5	<2.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<2.5	<2.5	<13	1.09	<2.5

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

Screening Values (mg/L)						VOCs																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
						6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²				0.005 ⁴	0.7 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL 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	0.0148	0.0344	<0.005	<0.001	0.0014	<0.002	<0.001	<0.002	<0.005	0.0113	<0.025	<5	<0.005	
	P58-ROX-011912	1/19/2012		39.73	NE	<0.005	487	0.027	0.0215	0.056 J	<0.005	<0.001	0.0013	<0.002	<0.001	<0.002	<0.005	0.0149	<0.025	0.97 J	<0.005	
	P58-ROX-011912-D	1/19/2012		39.73	NE	<0.005	474	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	<0.025	1.03	<0.005	
	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	<2.5	1.03	<0.5
	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	<2.5	1	<0.5
	P58-ROX-080612	8/6/2012		41.63	NE	<0.1 UJ	313 J	<0.1	<0.1	0.0317 J	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1			0.889	<0.1
	P58-ROX-080612-DUP	8/6/2012	41.63	NE	<0.05	308 J	<0.05	0.0176 J	0.0339 J	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.01	<0.02	<0.05	0.0118 J	<0.25	0.931	<0.05
	P58-ROX-110612	11/6/2012	40.21 - 65.21	43.09	NE	<0.5 UJ	415	<0.5	<0.5	<0.5	<0.5	<0.1 UJ	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.844	<0.5	
	P58-ROX-121012	12/10/2012		43.09	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3	1.49	<0.25	
	P59-ROX-011912	1/19/2012		42.88	NE	<0.005	6.61	<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	<0.025	1.28	<0.005	
	P59-ROX-011912-DUP	1/19/2012		42.88	NE	<0.005	7.04	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	<0.025	1.4	<0.005	
	P59-ROX-050912	5/9/2012		44.11	NE	<0.25	7.86	<0.25	<0.25	<0.25	<0.25	<0.05	<0.05	<0.1	<0.05	<0.1	<0.25	<0.25	<1.3	1.93	<0.25	
	P59-ROX-080212	8/2/2012		44.07	NE	<0.1 UJ	11	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1			1.74	<0.1
	P59-ROX-110212	11/2/2012		47.91 - 72.91	45.98	NE	<0.5 UJ	10.3	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.87	<0.5
	P59-ROX-110212-DUP	11/2/2012	45.98		NE	<0.5 UJ	10.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	1.94	<0.5	
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	0.0171	0.0153	0.0185	0.0063	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	0.0016	<0.005	
	P66-ROX-051012	5/10/2012		32.48	NE	<0.005	0.0193	0.0139	0.019	0.0059	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0015	<0.005	
	P66-ROX-080312	8/3/2012		30.51	NE	<0.005	0.0994	0.0118	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0013	<0.005
	P66-ROX-103112	10/31/2012		34.72 - 59.72	34.75	NE	<0.005	0.223	0.0145	0.02	0.0054	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0012	<0.005
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	5.02	0.0242	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.229	<0.005	
	P74-ROX-011912	1/19/2012		38.77	NE	<0.005	<0.205 U	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0095	<0.005	
	P74-ROX-050712	5/7/2012		39.92	NE	<0.005	0.336	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0081	<0.005	
	P74-ROX-080612	8/6/2012		40.71	NE	<0.05 UJ	2.46	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05		0.0782	<0.05	
	P74-ROX-110112	11/1/2012		44.43 - 69.43	41.72	NE	<0.1	3.5	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.04	<0.02	<0.04	<0.1	<0.1	<0.5	0.0493	<0.1
P-93A	P93A-102610	10/26/2010	48.17 - 63.17	40.75	NE	<25	422 D	<1.25	<1.25	<1.25	<12.5	<1.25	<1.25	<2.5	<1.25	<2.5	<1.25	<1.25		0.32 J		
	P93A-ROX_012611	1/26/2011		40.97	NE	<0.005	491	0.0059	0.0096	0.0213	<0.005	0.00081 J	0.00061 J	<0.002	<0.001	<0.002	<0.005	0.0047 J		0.373		
	P93A-ROX-050511	5/5/2011		41.88	NE	<0.005	551	<0.005	0.0054 J	0.0133 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0034 J J	<0.025	<5	<0.005	
	P93A-ROX-081811	8/18/2011		39.40	NE	<0.005	467	<0.005	0.0071	0.0177	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0049 J	<0.025	<10	<0.005	
	P93A-ROX-102611	10/26/2011		39.43	NE	<0.005 UJ	543	<0.005	0.006	0.015	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0081	<0.025	0.304	<0.005	
	P93A-ROX-012012	1/20/2012		41.66	NE	<0.005	164 J	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	<0.025	0.185	<0.005	
	P93A-ROX-050812	5/8/2012		42.75	NE	<0.0441 U	200	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	<0.025 UJ	0.38 J	<0.005 UJ	
	P93A-ROX-080912	8/9/2012		43.66	NE	<1.63 U	87	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	<0.025	0.225	<0.005	
	P93A-ROX-110712	11/7/2012		48.17 - 63.17	45.00	NE	<0.5 UJ	148	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.265	<0.5
	P93A-ROX-110712-DUP	11/7/2012			45.00	NE	<0.5 UJ	156	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.262	<0.5

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

Screening Values (mg/L)						VOCs																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²				0.005 ⁴	0.7 ¹		
						ANALYTICAL RESULTS (mg/L)																
P-93B	P93B-102610	10/26/2010	74.60 - 76.60	40.73	NE	<10	189 D	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5		<0.5		
	P93B-ROX_012611	1/26/2011		41.03	NE	<0.005	105	<0.005	<0.005	0.00058 J	<0.005	<0.001	<0.001	0.00077 J	<0.001	0.0014 J	<0.005	<0.005			0.0104	
	P93B-ROX-050511	5/5/2011		41.96	NE	<0.005	134	<0.005	0.0045 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0169	<0.005	
	P93B-ROX-081811	8/18/2011		39.44	NE	<5	304	<5	<5	<5	<5	<1	<1	<2	<1	<2	<5	<5	<25	<1	<5	
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.005 UJ	590	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0533	<0.005	
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.005	337	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	0.0831 J	0.0274 J	<0.005	
	P93B-ROX-050812	5/8/2012	42.79	NE	<0.0747 U	304	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0379 J	<0.005		
	P93B-ROX-080912	8/9/2012	43.69	NE	<0.0672 UJ	317	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0741	<0.005		
	P93B-ROX-110712	11/7/2012	74.60 - 76.60	45.05	NE	<0.5 UJ	162 J	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	<0.1	<0.5	
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.5 UJ	413 J	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.5	<0.5	<2.5	0.0695 J	<0.5	
P-93C	P93C-102610	10/26/2010	94.26 - 96.26	40.69	NE	<0.1	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	P93C-ROX_012611	1/26/2011		40.91	NE	<0.005	86.5	<0.005	<0.005	0.00056 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005			0.0175	
	P93C-ROX-050611	5/6/2011		41.84	NE	<0.005	15.7	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0029	<0.005	
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.005	1.2	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.005 UJ	0.0014	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P93C-ROX-012012	1/20/2012		41.57	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P93C-ROX-050812	5/8/2012	42.68	NE	<0.005	0.0057	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	P93C-ROX-080912	8/9/2012	43.57	NE	<0.0056 UJ	0.00084	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	P93C-ROX-110812	11/8/2012	94.26 - 96.26	45.12	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
P-93D	P93D-102610	10/26/2010	125.44 - 127.44	40.59	NE	<0.1	0.0429	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.01	<0.005	<0.01	<0.005	<0.005		<0.005		
	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.005	0.0287	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	<0.001	<0.005	
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P93D-ROX-102711	10/27/2011		39.59	NE	<0.005	0.00097	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P93D-ROX-012012	1/20/2012		41.77	NE	<0.005	0.0513	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P93D-ROX-050812	5/8/2012	42.96	NE	<0.005	0.0056	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
	P93D-ROX-080812	8/8/2012	43.71	NE	<0.005 UJ	0.0134	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
P93D-ROX-110812	11/8/2012	125.75 - 127.75	NM	NE	<0.005	0.049	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005		
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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P114-ROX-012012	1/20/2012		27.17	NE	<0.005	0.0011 J	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P114-ROX-050912	5/9/2012		28.09	NE	<0.005	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P114-ROX-080912	8/9/2012		29.13	NE	<0.0756 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	P114-ROX-110912	11/9/2012	32.67 - 52.67	30.90	NE	<0.0144 UJ	<0.0005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025 UJ	<0.001	<0.005	
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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0167	<0.005	
	ROST3PZ-ROX-080712	8/7/2012		39.00	NE	<0.005	0.0041	<0.005	<0.005	0.00072 J	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0047	<0.005	
	ROST3PZ-ROX-110112	11/1/2012		40.82	NE	<0.005	0.0052	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.0018	<0.005	
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	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	<0.001	<0.005	
	ROST4PZ-C-ROX-072512	7/25/2012		39.10	NE	<0.005	0.0849	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	<0.005	<0.025	0.177	<0.005	
	ROST4PZC-ROX-102912	10/29/2012	34.95 - 44.95	40.75	NE	<0.005 UJ	0.0033	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002 UJ	<0.005	<0.005	<0.025	0.0014	<0.005	

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

						VOCs																
						Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	4-Chlorotoluene	Cymene (p-Isopropyltoluene)	1,4-Dioxane	Ethylbenzene	Ethyl methacrylate	
Screening Values (mg/L)						6.3 ¹	0.005 ¹	0.35 ³			0.7 ²	0.005 ¹	0.1 ²		0.0002 ²				0.005 ⁴	0.7 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL 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	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	0.648	<0.05	
	T12-ROX-011912	1/19/2012		41.0	NE	<0.005	1.51	0.0062	0.0022 J	<0.005	<0.005	<0.001	<0.001	<0.002	<0.001	<0.002	<0.005	0.0024 J	<0.025	0.285	<0.005	
	T12-ROX-050912	5/9/2012		42.62	NE	<0.025	1.48	<0.025	<0.025	<0.025	<0.025	<0.005	<0.005	<0.01	<0.005	<0.01	<0.01	<0.025	<0.025	<0.13	1.88	<0.025
	T12-ROX-080212	8/2/2012		41.92	NE	<0.05 UJ	1.64	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05			0.573	<0.05
	T12-ROX-110512	11/5/2012	46.72 - 72.72	43.91	NE	<0.05	1.71	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.02	<0.01	<0.02	<0.05	<0.05	<0.25	1.73	<0.05	

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

Screening Values (mg/L)						VOCs																
Screening Values (mg/L)						0.007 ³		0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²		0.07 ³	7.0 ²	10 ¹	10 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)	
MW-01	MW-1-111110	11/11/2010	43.41 - 58.41	36.91	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005		
	MW-1-111110-Dup	11/11/2010		36.91	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005	
	MW1-ROX-011711	1/17/2011		37.58	NE	<0.005		<0.005	0.0032	<0.0063	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	0.0013	
	MW1-ROX-042911	4/29/2011		38.37	NE	<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	<0.005	0.0016	<0.001	0.0016
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.005	<0.005	<0.005	0.0055	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-120511	12/5/2011	37.10	NE	<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	<0.005	<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	0.0032	0.000079 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<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	0.0031	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<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	0.0022	0.0001 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW1-ROX-102612	10/26/2012		41.22	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
MW1-ROX-121712	12/17/2012	48.80 - 58.80	41.22	NE	<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	<0.005	<0.001	<0.001	<0.001	
MW-02	MW-2-111010	11/11/2010	47.19 - 62.19	38.12	NE	<0.025		0.0236 J	<0.025	0.077	0.0354	1.22 D	<0.025	<0.025	<0.025	0.273	0.0618	<0.25	1.14	0.318		
	MW2-ROX-011711	1/17/2011		38.67	NE	<0.005		0.0617	<0.001	0.0312	0.0652	0.737	<0.005	<0.005	<0.001	0.279	0.0744	<0.005	0.892	0.191		
	MW02-ROX-051011	5/10/2011		39.14	NE	<0.005	<0.005	0.0539	<0.001	0.0545 J	0.0669	3.51	<0.005	<0.005	<0.001	0.339	0.103	<0.005	2.05	0.549	2.6	
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.05	<0.05	0.0995	<0.01	0.0671	0.111	4.69	<0.05	<0.05	<0.01	0.338	0.116	<0.05	2.91	0.823	3.74	
	MW2-ROX-072711-DUP	7/27/2011	37.04	NE	<0.05	<0.05	0.0967	<0.01	0.0659	0.1	4.67	<0.05	<0.05	<0.01	0.298	0.108	<0.05	2.63	0.728	3.36		
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	<0.005	0.128	<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	0.0832	<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	0.0886	<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	0.0818	<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	49.87 - 59.87	42.35	NE	<0.025	<0.025	0.0764	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		
MW-03	MW-3-111210	11/12/2010	30.98 - 45.98	24.05	NE	<0.005		0.0016 J	<0.005	<0.01	0.00622	0.00257 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	0.00653 J	<0.005		
	MW3-ROX-011811	1/18/2011		24.92	NE	<0.005		<0.005	0.0021	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001	0.00085 J	<0.005	<0.005	0.0012	0.0014		
	MW03-ROX-051011	5/10/2011		24.79	NE	<0.005	<0.005	<0.005	0.0026	0.00011 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	0.0022	<0.001	0.0022	
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.005	<0.005	0.0012 J	<0.001	<0.000083 U	<0.005	0.0015	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	
	MW3-ROX-112911	11/29/2011	34.67 - 44.67	24.06	NE	<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	0.0014	<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	<0.001	<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	0.0039	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<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 UJ	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001		
MW3-ROX-102512	10/25/2012	34.67 - 44.67	28.39	NE	<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		
MW-04	MW-4-111210	11/12/2010	42.63 - 57.63	35.38	NE	<0.005		0.00271 J	0.00508	<0.009	0.00395 J	0.0157	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	0.00699 J	0.00139 J		
	MW4-ROX-011811	1/18/2011		36.04	NE	<0.005		0.002 J	0.007	<0.0052	0.0022 J	0.0071	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0062	0.0021	
	MW04-ROX-051111	5/11/2011		36.19	NE	<0.005	<0.005	0.0036 J	0.0096	<0.0001 UJ	0.0037 J	0.0125	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0096	0.0016	0.0111
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.005	<0.005	0.0088	0.0113	0.00025	0.0085	0.017	<0.005	<0.005	<0.001	<0.005	0.0052	<0.005	0.0067	<0.001	0.0067	
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.005	<0.005	0.0088	0.0103	0.00021	0.0083	0.0162	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0063	<0.001	0.0063
	MW4-ROX-121511	12/15/2011	33.99	NE	<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	<0.005	0.0069	0.001	0.0079	
	MW4-ROX-011612	1/16/2012	46.06 - 56.06	36.00	NE	<0.005	<0.005	0.0061	<0.001	<0.0001	0.0061	0.0283	<0.005	<0.005	<0.001	<0.005	<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	0.0038 J	0.0174	<0.0001	<0.005	0.0255	<0.005	<0.005	<0.001	<0.005	<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	0.0036 J	0.0162	<0.0001	0.0043 J	0.0252	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0151	0.0031	0.0182
	MW4-ROX-072512	7/25/2012		37.63	NE	<0.005 UJ	<0.005	0.0061	0.015	<0.0001	0.0071	0.0418	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0221	0.0042	0.0262
MW4-ROX-072512-Dup	7/25/2012	37.63		NE	<0.005 UJ	<0.005	0.0063	0.0154	<0.0001	0.0072	0.0427	<0.005	<0.005	<0.001	0.00068 J	0.0057	<0.005	<0.005	0.0214	0.0043	0.0257	
MW4-ROX-102912	10/29/2012	46.06 - 56.06	39.45	NE	<0.01	<0.01	0.0029 J	0.0324	<0.01	0.0033 J	0.0175	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	0.0114	<0.002	0.0114	

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

Screening Values (mg/L)						VOCs																
Screening Values (mg/L)						0.007 ³		0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²		0.07 ³	7.0 ²	10 ¹	10 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)	
MW-05	MW-5-111210	11/12/2010	31.13 - 46.13	23.32	NE	<0.005		<0.005	0.00556	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	0.00277 J	<0.005		
	MW5-ROX-011811	1/18/2011		24.15	NE	<0.005		<0.005	0.0066	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.00087 J	0.0014	
	MW05-ROX-051211	5/12/2011		23.98	NE	<0.005	<0.005	<0.005	0.0085	<0.00011 UJ	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	0.0035	<0.001	0.0035
	MW5-ROX-072611	7/26/2011	33.97 - 43.97	22.00	NE	<0.005	<0.005	0.0161	0.0031	<0.0001 U	0.0105	0.0017	<0.005	<0.005	<0.001	<0.005	0.0055	<0.005	0.0074	<0.001	0.0074	
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.005	<0.005	0.016	0.0031	<0.00015 U	0.0104	0.0016	<0.005	<0.005	<0.001	<0.005	0.0055	<0.005	0.0068	<0.001	0.0068	
	MW5-ROX-112111	11/21/2011		23.46	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-011712	1/17/2012		24.76	NE	<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	<0.005	<0.001	<0.001	<0.00081 U
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.005	<0.005	0.001 J	0.022	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW5-ROX-072512	7/25/2012		26.18	NE	<0.005 UJ	<0.005	0.0066	0.013	0.00032	0.0018 J	0.0032	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.008	0.0017	0.0097
MW5-ROX-102912	10/29/2012	33.97 - 43.97	28.16	NE	<0.005	<0.005	0.002 J	0.0219	<0.005	<0.005	0.0018	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0018	<0.001	0.0018	
MW-06A	MW-6A-110910	11/9/2010	31.98 - 46.98	25.62	NE	<0.005		<0.005	0.0203	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005		
	MW6A-ROX-011911	1/19/2011		26.36	NE	<0.005		<0.005	0.0181	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001		
	MW6A-ROX-051611	5/16/2011		26.10	NE	<0.005	<0.005 UJ	<0.005	0.0277	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-072611	7/26/2011	34.83 - 44.83	23.76	NE	<0.005	<0.005	<0.005	0.0237	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-112111	11/21/2011		25.49	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-112111-DUP	11/21/2011		25.49	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-011712	1/17/2012		26.74	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-050212	5/2/2012		27.77	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6A-ROX-080112	8/1/2012		28.36	NE	<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	<0.005	<0.001	<0.001	<0.001
MW6A-ROX-102412	10/24/2012	34.83 - 44.83	30.06	NE	<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	<0.005	<0.001	<0.001	<0.001	
MW-06B	MW-6B-111610	11/16/2010	64.05 - 69.05	25.47	NE	<0.005		<0.005	0.00204 J	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005		
	MW6B-ROX-011911	1/19/2011		26.21	NE	<0.005		<0.005	0.0016	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
	MW6B-ROX-011911-DUP	1/19/2011		26.21	NE	0.0014 J		<0.005	0.0016	<0.0051	<0.005	<0.001	0.0016 J	0.0011 J	<0.001	<0.005	<0.005	<0.005 UJ	<0.001	<0.001		
	MW6B-ROX-051611	5/16/2011	64.05 - 69.05	25.95	NE	<0.005	<0.005 UJ	<0.005	0.0029	<0.000095 UJ	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.005	<0.005 UJ	<0.005	0.0031	0.000044 J J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-072311	7/23/2011		23.60	NE	<0.005	<0.005	<0.005	0.0049	0.0012 B	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6B-ROX-110311	11/3/2011		24.67	NE	<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	<0.05	<0.01	<0.01	<0.01
	MW6B-ROX-011712	1/17/2012		26.77	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6B-ROX-050212	5/2/2012		27.82	NE	<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	<0.005	<0.001	<0.001	<0.001
MW6B-ROX-080112	8/1/2012	28.39	NE	<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	<0.005	<0.001	<0.001	<0.001		
MW6B-ROX-102412	10/24/2012	64.05 - 69.05	30.11	NE	<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	<0.005	<0.001	<0.001	<0.001	
MW-06C	MW-6C-111610	11/16/2010	84.95 - 89.95	25.25	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005		
	MW6C-ROX-012111	1/21/2011		25.97	NE	<0.005		<0.005	0.0021	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	
	MW6C-ROX-051611	5/16/2011		25.76	NE	<0.005	<0.005 UJ	<0.005	0.0034	<0.0001 UJ	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-072411	7/24/2011	84.95 - 89.95	23.43	NE	<0.005	<0.005	<0.005	0.0027	0.00075 B	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW6C-ROX-110311	11/3/2011		24.47	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-011712	1/17/2012		26.50	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-050212	5/2/2012		27.62	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-080112	8/1/2012		28.15	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW6C-ROX-102412	10/24/2012		84.95 - 89.95	27.85	NE	<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	<0.005	<0.001	<0.001

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

Screening Values (mg/L)						VOCs																	
Screening Values (mg/L)						0.007 ³	0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²	0.07 ³	7.0 ²	10 ¹	10 ¹					
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																	
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)		
MW-06D	MW-6D-111610	11/16/2010	104.72 - 109.72	25.13	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005			
	MW6D-ROX-012111	1/21/2011		25.87	NE	<0.005		<0.005	<0.001	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001		
	MW6D-ROX-051611	5/16/2011		25.60	NE	<0.005	<0.005 UJ	<0.005	<0.001	<0.00011 UJ	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.005	<0.005	<0.005	<0.001	0.00074 B	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001	
	MW6D-ROX-110311	11/3/2011		24.31	NE	<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	<0.005	<0.005	<0.001	<0.001	<0.001
	MW6D-ROX-011712	1/17/2012		26.33	NE	<0.005	<0.005	<0.005	<0.001	<0.00016 U	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<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	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<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	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	
MW6D-ROX-102412	10/24/2012	104.72 - 109.72	29.71	NE	<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	<0.005	<0.001	<0.001	<0.001		
MW-07	MW-7-111710	11/17/2010	42.92 - 52.92	36.93	NE	<1.25		<1.25	0.004 J	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25			
	MW-7-111710-Dup	11/17/2010		36.93	NE	<1.25		<1.25	0.005 J	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25		
	MW7-ROX-012511	1/25/2011		37.52	NE	<0.005 UJ	<0.005 UJ	0.004 J J	<0.0057 U	0.0058	0.0058 J	0.0907 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.0552 J	0.0133 J	<0.005 UJ	0.0694 J	0.0235 J			
	MW07-ROX-051311	5/13/2011		37.50	NE	<0.005 UJ	<0.005 UJ	0.0061 J	0.0109 J	0.0114 J	0.0078 J	0.128 J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.0822 J	0.0193 J	<0.005 UJ	0.101 J	0.0418 J	0.143 J		
	MW07-ROX-051311D	5/13/2011		37.50	NE	<0.005	<0.005	0.006	0.012	0.011 J	0.0078	0.126	<0.005	<0.005	<0.001	0.0825	0.0193	<0.005 UJ	0.0984	0.0405	0.139		
	MW7-ROX-072411	7/24/2011		35.65	NE	<25	<25	<25	<5	0.0081	<25	<5	<25	<25	<5	<25	<25 UJ	<5	<5	<5	<5		
	MW-7-ROX-110211	11/2/2011		35.95	NE	<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	0.0101	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	0.01	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	<0.1	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	<0.01	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	42.92 - 52.92	41.23	NE	<10	<10	<10	<2	<10	<10	<2	<10	<10	<2	<10	<10	<10	<2	<2	<2		
MW7-ROX-103012-DUP	10/30/2012	42.92 - 52.92	41.23	NE	<10	<10	<10	<2	<10	<10	<2	<10	<10	<2	<10	<10	<10	<2	<2	<2			
MW-08	MW-8-111710	11/17/2010	33.60 - 43.60	27.84	NE	<1.25		<1.25	<1.25	0.023	<1.25	0.328 J	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<2.5	<1.25			
	MW8-ROX-012511	1/25/2011		28.59	NE	<0.005 UJ	<0.005 UJ	0.0104 J	0.21 J	0.026	0.0173 J	1.2 E J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.109 J	0.0332 J	<0.005 UJ	0.499 J	0.188 J			
	MW8-ROX-012511-DUP	1/25/2011		28.59	NE	<0.005 UJ	<0.005 UJ	0.0105 J	0.205 J	0.0288	0.017 J	1.12 E J	<0.005 UJ	<0.005 UJ	<0.001 UJ	0.11 J	0.0336 J	<0.005 UJ	0.518 J	0.191 J			
	MW08-ROX-051311	5/13/2011		28.35	NE	<50	<50	<50	<10	0.0241 J	<50	<10	<50	<50	<10	<50	<50	<50	<10	<10	<10		
	MW08-ROX-051311D	5/13/2011		28.35	NE	<5	<5	<5	0.657 J	0.0288 J	<5	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1		
	MW8-ROX-072411	7/24/2011		26.02	NE	<25	<25	<25	<5	0.0237	<25	<5	<25	<25	<5	<25	<25	<25 UJ	<5	<5	<5		
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	<25	<25	<25	<5	0.023	<25	<5	<25	<25	<5	<25	<25	<25 UJ	<5	<5	<5		
	MW-8-ROX-110211	11/2/2011		27.02	NE	<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	0.0162	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	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	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	0.878	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	0.885	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	33.60 - 43.60	32.32	NE	<5	<5	<5	<1	<5	<5	<1	<5	<5	<1	<5	<5	<5	<1	<1	<1		

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

Screening Values (mg/L)						VOCs																	
Screening Values (mg/L)						0.007 ³		0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²		0.07 ³	7.0 ²	10 ¹	10 ¹			
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																	
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)		
MW-09	MW-9-111510	11/15/2010	46.45 - 56.45	39.00	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005			
	MW9-ROX-012111	1/21/2011		39.62	NE	<0.005		<0.005	<0.001	<0.0053	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001		
	MW09-ROX-050611	5/6/2011		40.12	NE	<0.005	<0.005 UJ	<0.005	<0.001	<0.000097 UJ	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.005	<0.005	<0.005	<0.001	0.001 B	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001	
	MW9-ROX-110111	11/1/2011		37.78	NE	<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	<0.005	<0.005	<0.001	<0.001	<0.001
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.005	<0.005	<0.005	<0.001	0.000062 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<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	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<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 UJ	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001		
MW9-ROX-102912	10/29/2012	46.45 - 56.45	43.17	NE	<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	<0.005	<0.001	<0.001	<0.001		
MW-10	MW-10-111010	11/10/2010	44.43 - 54.43	38.97	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005			
	MW10-ROX-012411	1/24/2011		39.40	NE	<0.005	<0.005	<0.005	<0.001	<0.0051	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001		
	MW10-ROX-012411-DUP	1/24/2011		39.40	NE	<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	<0.005	<0.001	<0.001		
	MW10-ROX-042811	4/28/2011		40.20	NE	<0.005	<0.005	<0.005	<0.001	<0.0048	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.005	<0.005	<0.005	<0.001	0.00062 B	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001	
	MW10-ROX-110111	11/1/2011		37.72	NE	<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	<0.005	<0.001	<0.001	<0.001	
	MW10-ROX-011612	1/16/2012		39.28	NE	<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	<0.005	<0.001	<0.001	<0.001	
	MW10-ROX-050112	5/1/2012	40.86	NE	<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	<0.005	<0.001	<0.001	<0.001		
	MW10-ROX-072712	7/27/2012	41.21	NE	<0.005	<0.005 UJ	<0.005	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001		
	MW10-ROX-102612	10/26/2012	44.43 - 54.43	43.08	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
MW10-ROX-121712	12/17/2012	43.08	NE	<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	<0.005	<0.005	<0.001	<0.001	0.00058 J		
MW-11	MW-11-111710	11/17/2010	41.66 - 51.66	36.39	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005			
	MW11-ROX-012411	1/24/2011		37.15	NE	<0.005	<0.005	<0.005	<0.001	<0.0052	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001		
	MW11-ROX-050611	5/6/2011		37.60	NE	<0.005	<0.005 UJ	<0.005	<0.001	<0.000095 UJ	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.005	<0.005	<0.005	<0.001	0.00027 B	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001	
	MW11-ROX-110211	11/2/2011		35.44	NE	<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	<0.005	<0.001	<0.001	<0.001	
	MW11-ROX-011712	1/17/2012		37.44	NE	<0.005	<0.005	<0.005	<0.001		<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	
	MW11-ROX-043012	4/30/2012		38.66	NE	<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	<0.005	<0.001	<0.001	<0.001	
	MW11-ROX-072712	7/27/2012	38.90	NE	<0.005	<0.005 UJ	<0.005	<0.001	<0.00012	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001		
MW11-ROX-102512	10/25/2012	41.66 - 51.66	40.59	NE	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001		
MW-12	MW-12-111510	11/15/2010	41.92 - 51.92	36.63	NE	<0.005		<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005			
	MW12-ROX-012411	1/24/2011		37.42	NE	<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	<0.005	<0.001	<0.001		
	MW12-ROX-051211	5/12/2011		37.58	NE	<0.005	<0.005	<0.005	<0.001	<0.0001 UJ	<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-072411	7/24/2011		35.55	NE	<0.005	<0.005	<0.005	<0.001	0.00098 B	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	
	MW-12-ROX-110211	11/2/2011		35.70	NE	<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	<0.005	<0.001	<0.001	<0.001	
	MW-12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.005	<0.005	<0.005	<0.001	<0.000095	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<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	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<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	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<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	<0.001	<0.0001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<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 UJ	<0.005	<0.001	<0.00011	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001		
MW12-ROX-102512	10/25/2012	41.92 - 51.92	40.95	NE	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001		

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

Screening Values (mg/L)						VOCs																
Screening Values (mg/L)						0.007 ³	0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²	0.07 ³	7.0 ²	10 ¹	10 ¹				
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)	
MW-13	MW13-ROX-012511	1/25/2011	25.57 - 35.57	24.28	NE	<0.005	<0.005	<0.005	<0.001	<0.0052	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	
	MW13-ROX-051311	5/13/2011		23.65	NE	<0.005	<0.005	<0.005	0.0061 J	<0.000095 U	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.005	<0.005	<0.005	0.004	<0.000045 U	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-110311	11/3/2011		22.85	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-012012	1/20/2012		24.77	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-050712	5/7/2012		25.79	NE	<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	<0.005	<0.001	<0.001	<0.001
	MW13-ROX-080812	8/8/2012	26.67	NE	<0.005 UJ	<0.005 UJ	<0.005 UJ	0.0133 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	<0.005 UJ	<0.001 UJ	<0.001 UJ	<0.001 UJ	
MW13-ROX-110812	11/8/2012	25.57 - 35.57	25.30	NE	<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	<0.005	<0.001	<0.001	<0.001	
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.005	<0.005	<0.005	<0.001	<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	0.0104	<0.001	0.00099	0.0078	<0.001	<0.005	<0.005	<0.001	<0.005	<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	0.0173	<0.001	0.0013	0.0137	0.00093 J	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0033	0.00061 J	0.0039
	MW14-ROX-103112	10/31/2012	33.42 - 43.42	32.02	NE	<0.005	<0.005	0.0161	<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	
P-54	P-54-111710	11/17/2010	38.00 - 63.00	36.43	NE	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-012411	1/24/2011		37.24	NE	<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	<0.005	<0.001	<0.001	<0.001
	P54-ROX-051111	5/11/2011		37.37	NE	<0.005	<0.005	<0.005	<0.001	0.00013 J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-072411	7/24/2011		35.38	NE	<0.005	<0.005	<0.005	<0.001	0.000066 JB	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P54-ROX-110311	11/3/2011		35.49	NE	<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	<0.005	<0.001	<0.001	<0.001
	P54-ROX-011712	1/17/2012		37.17	NE	<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	<0.005	<0.001	<0.001	<0.001
	P54-ROX-050412	5/4/2012		38.77	NE	<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	<0.005	<0.001	<0.001	<0.001
	P54-ROX-080212	8/2/2012		38.95	NE	<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	<0.005	<0.001	<0.001	<0.001
P54-ROX-103012	10/30/2012	38.00 - 63.00	40.70	NE	<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		
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	<0.005	<0.005	0.0012	0.0015	<0.005	0.029	<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	0.0105 J	<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	0.0105 J	<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	0.0392	<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	
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.005	<0.005	0.0512	<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	0.0787 J	<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	0.0876	<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 UJ	0.0442	<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	0.0752	<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	
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<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	<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	0.453	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 UJ	<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 UJ	0.0432	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	<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	

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

Screening Values (mg/L)						VOCs																
Screening Values (mg/L)						0.007 ³		0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²		0.07 ³	7.0 ²	10 ¹	10 ¹		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)	
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.005	<0.005	0.0734	<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	0.0097	0.108 J	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	0.0832 J	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	<0.1	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	<0.1	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 UJ	0.0649 J	<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	0.0718	<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	40.21 - 65.21	43.09	NE	<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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<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	0.0713	<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	0.0733	<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	0.0585 J	<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	0.0452 J	<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	47.91 - 72.91	45.98	NE	<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	<0.1	<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		
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	<0.005	0.158	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	0.123	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	0.0874	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		34.72 - 59.72	34.75	NE	<0.005	<0.005	0.122	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
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	<0.005	0.0123	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	<0.001	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	<0.001	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 UJ	<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	44.43 - 69.43	41.72	NE	<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	
P-93A	P93A-102610	10/26/2010	48.17 - 63.17	40.75	NE	<1.25		<1.25	<1.25	0.095 D	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	<1.25	0.543 J	<1.25		
	P93A-ROX_012611	1/26/2011		40.97	NE	0.0016 J		0.0225	0.124	0.0803	0.0254	0.0654	0.0026 J	0.0015 J	0.0017	0.21	0.045	<0.005 UJ	0.622	0.0705		
	P93A-ROX-050511	5/5/2011		41.88	NE	<0.005	<0.005 UJ	0.0206 J	0.0684 J	0.0795 J	0.0228 J	0.0718 J	<0.005	<0.005	<0.001	0.169 J	0.0293 J	<0.005	0.628 J	0.0707 J	0.699 J	
	P93A-ROX-081811	8/18/2011		39.40	NE	<0.005	<0.005	0.0236 J	0.0356	0.0868	0.0254	0.0678	<0.005	<0.005	<0.001	0.237	0.0495	<0.005 UJ	0.745	0.09	0.835	
	P93A-ROX-102611	10/26/2011		39.43	NE	<0.005	<0.005	0.0189	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	0.0041 J	0.0134	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	0.0218 J	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	0.0126	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		48.17 - 63.17	45.00	NE	<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	<0.1	<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

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

Screening Values (mg/L)						VOCs																
Screening Values (mg/L)						0.007 ³	0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²	0.07 ³	7.0 ²	10 ¹	10 ¹				
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)	
P-93B	P93B-102610	10/26/2010	74.60 - 76.60	40.73	NE	<0.5		<0.5	<0.5	<0.009	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<1	<0.5		
	P93B-ROX_012611	1/26/2011		41.03	NE	<0.005		0.0108	0.0088	0.0011 J	0.011	0.0321	<0.005	<0.005	<0.001	0.0052	0.0016 J	<0.005 UJ	0.0555	0.0092		
	P93B-ROX-050511	5/5/2011		41.96	NE	<0.005	<0.005 UJ	0.0142	0.0113	0.0013 J	0.0151	0.0488	<0.005	<0.005	<0.001	0.0057	0.0014 J	<0.005	0.0502	0.0112	0.0614	
	P93B-ROX-081811	8/18/2011		39.44	NE	<5	<5	<5	<1	0.0037	<5	<1	<5	<5	<1	<5	<5	<5	<5	<1	<1	<1
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.005	<0.005	0.0292	<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	0.022 J	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	0.0188 J	<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	0.0266	<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	74.60 - 76.60	45.05	NE	<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	<0.5	0.0986 J	<0.1	0.0986 J
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	0.0719 J	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	0.237	<0.1	0.237
P-93C	P93C-102610	10/26/2010	94.26 - 96.26	40.69	NE	<0.005		<0.005	0.00136 J	<0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005		
	P93C-ROX_012611	1/26/2011		40.91	NE	<0.005		0.0019 J	0.0014	<0.0051	0.0013 J	0.0067	<0.005	<0.005	<0.001	0.0025 J	<0.005	<0.005 UJ	0.0051	0.0035		
	P93C-ROX-050611	5/6/2011		41.84	NE	<0.005	<0.005 UJ	<0.005	0.0052	0.00003 J J	<0.005	0.0018	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	0.00059 J
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.005	<0.005	<0.005	0.0067	<0.000054 U	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005 UJ	<0.001	<0.001	<0.001
	P93C-ROX-102611	10/26/2011		39.36	NE	<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	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-012012	1/20/2012		41.57	NE	<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	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-050812	5/8/2012		42.68	NE	<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	<0.005	<0.001	<0.001	<0.001
	P93C-ROX-080912	8/9/2012	43.57	NE	<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	<0.005	<0.001	<0.001	<0.001	
P93C-ROX-110812	11/8/2012	94.26 - 96.26	45.12	NE	<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		
P-93D	P93D-102610	10/26/2010	125.44 - 127.44	40.59	NE	<0.005		<0.005	0.0122	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.005		
	P93D-ROX-050511	5/5/2011		41.96	NE	<0.005	<0.005 UJ	<0.005	0.0014	0.000036 J J	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.005	<0.005	<0.005	0.00095 J	<0.000087 U	<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-102711	10/27/2011		39.59	NE	<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	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-012012	1/20/2012		41.77	NE	<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	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-050812	5/8/2012		42.96	NE	<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	<0.005	<0.001	<0.001	<0.001
	P93D-ROX-080812	8/8/2012	43.71	NE	<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	<0.005	<0.001	<0.001	<0.001	
P93D-ROX-110812	11/8/2012	125.75 - 127.75	NM	NE	<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		
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<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	<0.001	<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	0.0035 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	0.00083 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	32.67 - 52.67	30.90	NE	<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	
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<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	<0.001	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	40.00 - 50.00	40.82	NE	<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-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<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 UJ	<0.005	0.0036 J	<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	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	<0.005	0.0021	<0.001	0.0021

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

						VOCs															
						Hexachlorobutadiene	2-Hexanone (Methyl N-Butyl Ketone)	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene ⁵	n-Propylbenzene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	m,p-Xylenes	o-Xylenes	Xylenes (total)
Screening Values (mg/L)						0.007 ³		0.7 ³	0.070 ¹	0.14 ²	0.7 ³	1 ¹	0.0056 ³	0.07 ²	0.005 ²		0.07 ³	7.0 ²	10 ¹		10 ¹
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL 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	<0.01	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	0.022	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	0.0572	<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	0.0297 J	<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	46.72 - 72.72	43.91	NE	<0.05	<0.05	0.0468 J	<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

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

Screening Values (mg/L)						SVOCs																				
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzophenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol		
						0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²		
						ANALYTICAL RESULTS (mg/L)																				
MW-01	MW-1-111110	11/11/2010	43.41 - 58.41	36.91	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW-1-111110-Dup	11/11/2010		36.91	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.049		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	MW1-ROX-011711	1/17/2011		37.58	NE	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.013		<0.0063	<0.0025	<0.0063	<0.0063	<0.0063	<0.0063	<0.013	<0.0063	<0.013	
	MW1-ROX-042911	4/29/2011		38.37	NE	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.013 UJ	<0.013	<0.0063	<0.00077 U	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.013	<0.0063	<0.013
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	
	MW1-ROX-120511	12/5/2011	37.10	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.0051	<0.0001	<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	0.000062 J	0.00011	0.0001	0.00011	<0.00011 U	<0.00012	<0.01 UJ	<0.01	<0.0051	<0.002	<0.00039 U	0.00011	<0.00011 U	<0.0051	<0.0001	<0.01	<0.0051	<0.01	
	MW1-ROX-050112	5/1/2012		39.09	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.0051	<0.0001	<0.01	<0.0051	<0.01	
	MW1-ROX-073012	7/30/2012		39.39	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	0.00032 J	<0.011		
	MW1-ROX-102612	10/26/2012	48.80 - 58.80	41.22	NE	<0.00011	<0.00011	<0.00011	<0.000057	<0.00011	<0.000057	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0057	0.00099 J	<0.0057	<0.00011	<0.00011	<0.0023	<0.011	<0.0057	<0.011		
MW1-ROX-121712	12/17/2012	41.22		NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-02	MW-2-111010	11/11/2010	47.19 - 62.19	38.12	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW2-ROX-011711	1/17/2011		38.67	NE	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0082 J		<0.0048	0.25	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	0.0022 J	
	MW02-ROX-051011	5/10/2011		39.14	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.000052 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	0.0019 J	<0.0052	<0.0029 U	<0.0052 UJ	<0.0001 UJ	<0.0001 UJ	<0.0052	<0.01	0.0016 J J	<0.01		
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01		
	MW2-ROX-072711-DUP	7/27/2011	37.04	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01			
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<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	<0.00011	<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	<0.00011	<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	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<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	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00059 J	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	0.00036 J	0.0045 J			
MW2-ROX-102612	10/26/2012	49.87 - 59.87	42.35	NE	0.000093 J	<0.00011	<0.00011	0.00016	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	0.0034 J			
MW-03	MW-3-111210	11/12/2010	30.98 - 45.98	24.05	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW3-ROX-011811	1/18/2011		24.92	NE	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011		<0.0053	0.00062 J	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.0053	<0.011		
	MW03-ROX-051011	5/10/2011		24.79	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0025 U	0.0064 J	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005 UJ	<0.01		
	MW3-ROX-080311	8/3/2011	34.67 - 44.67	22.72	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	0.0084	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095		
	MW3-ROX-112911	11/29/2011		24.06	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<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	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<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	0.000063 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	0.000098 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	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<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	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.00067 U	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011		
MW3-ROX-102512	10/25/2012	34.67 - 44.67	28.39	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051 U	<0.01			
MW-04	MW-4-111210	11/12/2010	42.63 - 57.63	35.38	NE	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009		
	MW4-ROX-011811	1/18/2011		36.04	NE	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01		<0.0052	<0.0021	<0.0052	<0.0052	<0.0052	<0.0052	<0.01	<0.0052	<0.01		
	MW04-ROX-051111	5/11/2011		36.19	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0023 U	0.0063 J	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005 UJ	<0.01		
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	0.0102	<0.01	<0.005	<0.0057 U	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005		
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.0001	<0.0001	<0.0001	<0.																	

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CUMULATIVE SUMMARY OF GROUNDWATER MONITORING WELL ANALYTICAL RESULTS AND EXCEEDANCES

Screening Values (mg/L)						SVOCs																				
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol		
						0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²		
ANALYTICAL RESULTS (mg/L)																										
MW-05	MW-5-111210	11/12/2010	31.13 - 46.13	23.32	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW5-ROX-011811	1/18/2011		24.15	NE	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011		<0.0053	<0.0021	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	0.0009 J	<0.011	
	MW05-ROX-051211	5/12/2011		23.98	NE	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000053 UJ	<0.00011 UJ	<0.000053 UJ	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.00011 UJ	<0.00011 UJ	<0.0053	<0.011	<0.0053	<0.011	
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	
	MW5-ROX-072611-DUP	7/26/2011		22.00	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	
	MW5-ROX-112111	11/21/2011	33.97 - 43.97	23.46	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	0.00079 J	<0.0053	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053	<0.011
	MW5-ROX-011712	1/17/2012		24.76	NE	<0.00011	<0.00011	<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	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053	<0.011
	MW5-ROX-050312	5/3/2012		25.89	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<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	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00064 U	<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	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	
MW-06A	MW-6A-110910	11/9/2010	31.98 - 46.98	25.62	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW6A-ROX-011911	1/19/2011		26.36	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0044 J J		<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0019 U	<0.01	
	MW6A-ROX-051611	5/16/2011		26.10	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0026	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00083 U	<0.01		
	MW6A-ROX-072611	7/26/2011		23.76	NE	0.00024	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01		
	MW6A-ROX-112111	11/21/2011		25.49	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	0.00077 J	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052	<0.01	
	MW6A-ROX-112111-DUP	11/21/2011	25.49	NE	<0.0001	<0.0001	<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	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051	<0.01	
	MW6A-ROX-011712	1/17/2012	34.83 - 44.83	26.74	NE	<0.00011	<0.00011	<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	<0.00011	<0.00014 U	<0.0054	<0.011	<0.0054	<0.011		
	MW6A-ROX-050212	5/2/2012	27.77	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.0029 UJ	<0.01	<0.005	<0.002	<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	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01		
	MW6A-ROX-102412	10/24/2012	34.83 - 44.83	30.06	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011		
MW-06B	MW-6B-111610	11/16/2010	64.05 - 69.05	25.47	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW6B-ROX-011911	1/19/2011		26.21	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01 UJ		<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.01	<0.00087 U	<0.01		
	MW6B-ROX-011911-DUP	1/19/2011		26.21	NE	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01 UJ		<0.0051	<0.002	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.001 U	<0.01		
	MW6B-ROX-051611	5/16/2011		25.95	NE	<0.000095 UJ	0.000098 J	<0.000095 UJ	<0.000048 UJ	<0.000095 UJ	<0.000048 UJ	<0.000095 UJ	<0.000095 UJ	<0.0095	<0.0095	<0.0048	0.0023	<0.0048	<0.000095 UJ	<0.000095 UJ	<0.0048	<0.0095	<0.00078 U	<0.0095		
	MW6B-ROX-051611-DUP	5/16/2011		25.95	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0024	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00096 U	<0.01		
	MW6B-ROX-072311	7/23/2011	23.60	NE	<0.00011	<0.00011	<0.00011	<0.00075 U	<0.0002 U	<0.00019 U	<0.00007 U	<0.00023 U	<0.011 UJ	<0.011	<0.0053	0.00077 J	<0.0053	<0.0008 U	<0.000031 U	<0.0053	<0.011	<0.0053	<0.011			
	MW6B-ROX-110311	11/3/2011	24.67	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<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	<0.00011	<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	<0.00011	<0.00027 U	<0.0055	<0.011	<0.0055	<0.011			
	MW6B-ROX-050212	5/2/2012	27.82	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<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	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00049 J	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01		
MW6B-ROX-102412	10/24/2012	64.05 - 69.05	30.11	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	0.00057 J	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01			
MW-06C	MW-6C-111610	11/16/2010	84.95 - 89.95	25.25	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW6C-ROX-012111	1/21/2011		25.97	NE	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.00084 U	<0.011		
	MW6C-ROX-051611	5/16/2011		25.76	NE	<0.0001 UJ	0.000046 J J	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	0.0025	0.0064	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.00063 U	<0.01		
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.00011	<0.00011	<0.00011	0.00016 B	0.00013 B	0.00014 B	0.000041														

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

Screening Values (mg/L)						SVOCs																				
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzophenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol		
						0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²		
						ANALYTICAL RESULTS (mg/L)																				
MW-06D	MW-6D-111610	11/16/2010	104.72 - 109.72	25.13	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.051		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW6D-ROX-012111	1/21/2011		25.87	NE	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.001 U	<0.011	
	MW6D-ROX-051611	5/16/2011		25.60	NE	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	0.0027	0.0069	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.00085 U	<0.011	
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.00011	<0.00011	<0.00011	<0.00038 U	<0.00015 U	<0.00017 U	<0.00049 U	<0.00019 U	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.00039 U	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053	<0.011
	MW6D-ROX-110311	11/3/2011		24.31	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<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	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0055	<0.0022	<0.0055	<0.00011	<0.00011	<0.0055	<0.011	<0.0055	<0.011	<0.011
	MW6D-ROX-050212	5/2/2012		27.45	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0044 UJ	<0.01	<0.005	<0.002	<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	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.002	<0.01	0.00022 J	<0.01
	MW6D-ROX-102412	10/24/2012	104.72 - 109.72	29.71	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.01	
MW-07	MW-7-111710	11/17/2010	42.92 - 52.92	36.93	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.005 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW-7-111710-Dup	11/17/2010		36.93	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05		<0.01	<0.007 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	MW7-ROX-012511	1/25/2011		37.52	NE	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011		<0.0053	<0.0021	<0.0053	<0.0053	<0.0053	<0.011	<0.003 U	<0.011		
	MW07-ROX-051311	5/13/2011		37.50	NE	0.00011 J	<0.00011 UJ	0.000031 J J	<0.000054 UJ	<0.00011 UJ	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0054	<0.0032 U	<0.0071 U	<0.00011 UJ	<0.00011 UJ	<0.0054	<0.011	<0.00097 U	<0.011		
	MW07-ROX-051311D	5/13/2011		37.50	NE	0.00011 J	<0.00011 UJ	0.000034 J J	<0.000055 UJ	0.000018 J J	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	<0.0035 U	<0.007 U	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.0055	<0.011	<0.011	
	MW7-ROX-072411	7/24/2011		35.65	NE	0.0001 J	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<0.0054	0.000018 J	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054	<0.011
	MW-7-ROX-110211	11/2/2011		35.95	NE	<0.00026 U	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01 UJ
	MW7-ROX-011812	1/18/2012		38.10	NE	0.00025	<0.0001	<0.0001	<0.00005	<0.000024 U	<0.00005	<0.0001	<0.0001		<0.01 UJ	<0.005	<0.002	0.00049 J	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	0.00027	<0.00011	<0.00011	<0.000056	<0.00003 U	<0.000056	<0.00011	<0.00011		<0.011 UJ	<0.0056	0.00044 J	0.00048 J	<0.00011	<0.00011	<0.0056	<0.011	<0.0056	<0.011	<0.0056	<0.011
	MW7-ROX-050412	5/4/2012		39.19	NE	0.00028	<0.0001	<0.0001	0.00011	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00071 J	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01
	MW7-ROX-080712	8/7/2012		39.50	NE	0.00024	0.000037 J	0.000022 J	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0006 J	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.00058 U	<0.01		
	MW7-ROX-103012	10/30/2012		42.92 - 52.92	41.23	NE	0.00031	<0.00012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012	<0.00012	<0.012	<0.012	<0.0058	0.0015 J	<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	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	0.0007 J	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056	<0.011	
MW-08	MW-8-111710	11/17/2010	33.60 - 43.60	27.84	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.006 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.018		
	MW8-ROX-012511	1/25/2011		28.59	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01		<0.005	0.00086 J	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0025 U	0.0233	
	MW8-ROX-012511-DUP	1/25/2011		28.59	NE	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.011		<0.0057	0.0012 J	<0.0057	<0.0057	<0.0057	<0.0057	<0.011	0.0125	0.0299		
	MW08-ROX-051311	5/13/2011		28.35	NE	0.00035 J	<0.00011 UJ	0.000063 J J	<0.000055 UJ	<0.00011 UJ	<0.000055 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0055	<0.0031 U	<0.0055	<0.00011 UJ	<0.00011 UJ	<0.0055	<0.011	<0.0018 U	0.0225		
	MW08-ROX-051311D	5/13/2011		28.35	NE	0.00029 J	<0.00011 UJ	0.000054 J J	<0.000056 UJ	<0.00011 UJ	<0.000056 UJ	<0.00011 UJ	<0.00011 UJ	<0.011	<0.011	<0.0056	<0.0034 U	<0.0056	<0.00011 UJ	<0.00011 UJ	<0.0056	<0.011	<0.0011 U	0.0232		
	MW8-ROX-072411	7/24/2011		26.02	NE	0.00029	<0.00011	0.000067 J	0.00013 B	0.00016 B	0.00016 B	0.000048 J	0.00017 B	<0.011 UJ	<0.011	<0.0054	0.0019 J	<0.0054	0.000099 JB	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054	0.0228
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	0.00027	<0.00011	0.000062 J	0.00012 B	0.00019 B	0.00018 B	0.000058 J	0.00021 B	<0.011 UJ	<0.011	<0.0055	0.0013 J	<0.0055	0.000099 JB	<0.00011	<0.0055	<0.011	<0.0055	<0.011	<0.0055	0.0213
	MW-8-ROX-110211	11/2/2011		27.02	NE	<0.00023 U	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0048	0.0383 J
	MW8-ROX-011812	1/18/2012		29.15	NE	0.00038 J	<0.00053	<0.00053	<0.00026	<0.00053	<0.00026	<0.00053	<0.00053	<0.011 UJ	<0.011	<0.0053	0.00052 J	0.00042 J	<0.00053	<0.00053	0.0006 J	<0.011	<0.0053	<0.011	<0.0053	0.015
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0204	<0.011	<0.0053	0.00053 J	<0.0053	<0.00011	<0.00011	0.00044 J	<0.011	<0.0053	<0.011	<0.0053	0.0595
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00047 J	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005	0.0557
	MW8-ROX-080712	8/7/2012		30.97	NE	0.00023	0.00013	0.000055 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.00051 J	<0.00								

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

Screening Values (mg/L)						SVOCs																				
						Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzophenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²		
						ANALYTICAL RESULTS (mg/L)																				
MW-09	MW-9-111510	11/15/2010	46.45 - 56.45	39.00	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.001 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW9-ROX-012111	1/21/2011		39.62	NE	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.001 U	<0.011	
	MW09-ROX-050611	5/6/2011		40.12	NE	<0.000097 UJ	<0.000097 UJ	<0.000097 UJ	<0.000049 UJ	<0.000097 UJ	<0.000049 UJ	<0.000097 UJ	<0.000097 UJ	<0.000097 UJ	<0.000097 UJ	<0.0097	<0.0097	<0.0049	<0.0019	<0.0049	<0.000097 UJ	<0.000097 UJ	<0.0049	<0.0097	<0.0018 U	<0.0097
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.00011	<0.00011	<0.00011	<0.00021 U	<0.00013 U	<0.00015 U	<0.000046 U	<0.00018 U	<0.01 UJ	<0.011	<0.0054	<0.0022	<0.0054	<0.0002 U	<0.00011	<0.0054	<0.01 UJ	<0.0054	<0.01 UJ	<0.0054	<0.01 UJ
	MW9-ROX-110111	11/1/2011		37.78	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01
	MW9-ROX-011612	1/16/2012		39.50	NE	<0.00011	<0.00011	<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	<0.00011	<0.000078 U	<0.0057	<0.011	<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	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00043 U	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005	<0.01	
MW9-ROX-102912	10/29/2012	43.17	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	<0.0052	<0.01		
MW-10	MW-10-111010	11/10/2010	44.43 - 54.43	38.97	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW10-ROX-012411	1/24/2011		39.40	NE	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01		<0.0051	0.00068 J	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.001 U	<0.01	
	MW10-ROX-012411-DUP	1/24/2011		39.40	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01		<0.005	0.00071 J	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0012 U	<0.01	
	MW10-ROX-042811	4/28/2011		40.20	NE	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095 UJ	<0.0095	<0.0048	<0.00051 U	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	<0.0095	
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.0001	<0.0001	<0.0001	<0.00025 U	<0.00013 U	<0.00014 U	<0.000039 U	<0.00017 U	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.00027 U	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005
	MW10-ROX-110111	11/1/2011		37.72	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.005	<0.01
	MW10-ROX-011612	1/16/2012		39.28	NE	<0.00011	<0.00011	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	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011	<0.0053	<0.011
	MW10-ROX-050112	5/1/2012	40.86	NE	<0.0001	<0.0001	0.000018 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01	<0.0052	<0.01	
	MW10-ROX-072712	7/27/2012	41.21	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001 UJ	<0.0001	<0.01	<0.01	<0.005	<0.00067 U	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	<0.005	<0.01	
	MW10-ROX-102612	10/26/2012	43.08	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	<0.00011	<0.00011	<0.0022	<0.011	<0.0056	<0.011	<0.0056	<0.011	
MW10-ROX-121712	12/17/2012	43.08	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
MW-11	MW-11-111710	11/17/2010	41.66 - 51.66	36.39	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW11-ROX-012411	1/24/2011		37.15	NE	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01		<0.0052	0.00073 J	<0.0052	<0.0052	<0.0052	<0.0052	<0.01	<0.001 U	<0.01		
	MW11-ROX-050611	5/6/2011		37.60	NE	<0.000095 UJ	<0.000095 UJ	<0.000095 UJ	<0.000042 UJ	<0.000095 UJ	0.000025 J J	0.000022 J J	0.000014 J J	<0.0095	<0.0095	<0.0048	<0.0028 U	<0.0048	0.000037 J J	<0.000095 UJ	<0.0048	<0.0095	<0.0009 U	<0.0095		
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.00011	<0.00011	<0.00011	0.00013 B	0.00012 B	0.00013 B	0.000035 J	0.00014 B	<0.011 UJ	<0.011	<0.0056	<0.0022	<0.0056	0.00013 B	<0.00011	<0.0056	<0.011	<0.0056	<0.011	<0.0056	<0.011
	MW11-ROX-110211	11/2/2011		35.44	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	<0.0054	<0.011	<0.0054	<0.011	<0.0054	<0.011
	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	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	<0.0051	<0.01
	MW11-ROX-072712	7/27/2012	38.90	NE	<0.00012	<0.00012	<0.00012	<0.000058	<0.00012	<0.000058	<0.00012 UJ	<0.00012	<0.012	<0.012	<0.0058	<0.00056 U	<0.0058	<0.00012	<0.00012	<0.0023	<0.012	<0.0058	<0.012	<0.0058	<0.012	
MW11-ROX-102512	10/25/2012	40.59	NE	<0.00011	<0.00011	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	<0.00042 U	<0.011		
MW-12	MW-12-111510	11/15/2010	41.92 - 51.92	36.63	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	MW12-ROX-012411	1/24/2011		37.42	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01		<0.005	<0.002	<0.005	<0.005	<0.005	<0.01	<0.00077 U	<0.01		
	MW12-ROX-051211	5/12/2011		37.58	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	0.000019 J J	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	<0.005	
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.0001	<0.0001	<0.0001	0.000072 B	0.00014 B	0.00014 B	0.000053 J	0.00019 B	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	0.000072 JB	0.000031 JB	<0.005	<0.01 UJ	<0.005	<0.01 UJ	<0.005	<0.01 UJ
	MW12-ROX-110211	11/2/2011		35.70	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.000095	<0.000095	<0.0048	<0.0095	<0.0048	<0.0095	<0.0095	
	MW12-ROX-110211-DUP	11/2/2011		35.70	NE	<0.000095	<0.000095	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.0095	<0.0095	<0.0048	<0.0019	<0.0048	<0.000095	<0.000095	<					

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

Screening Values (mg/L)						SVOCs																		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzophenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol
						0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²
						ANALYTICAL RESULTS (mg/L)																		
MW-13	MW13-ROX-012511	1/25/2011	25.57 - 35.57	24.28	NE	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01		<0.0052	<0.0021	<0.0052	<0.0052	<0.0052	<0.0052	<0.01	<0.0027 U	<0.01
	MW13-ROX-051311	5/13/2011		23.65	NE	<0.000099 UJ	0.000067 J J	0.000059 J J	0.000042 J J	0.000016 J J	<0.00005 UJ	<0.000099 UJ	<0.000099 UJ	<0.0099	<0.0099	<0.005	<0.0027 U	<0.005	0.000059 J J	<0.000099 UJ	<0.005	<0.0099	<0.00086 U	<0.0099
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.0001	<0.0001	0.00011	0.000037 J	0.000039 J	0.000037 J	0.000053 J	0.000036 J	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	0.000036 J	<0.0001	<0.005	<0.01	<0.005	<0.01
	MW13-ROX-110311	11/3/2011		22.85	NE	<0.00011	<0.00011	<0.00011	<0.000056	<0.00011	<0.000056	<0.00011	<0.00011	<0.011	<0.011	<0.0056	<0.0022	<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	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	0.0087 J J	<0.011	<0.0053	<0.0007 U	<0.0007 U	<0.00011	<0.00011	<0.0053	<0.011	<0.0053	<0.011
	MW13-ROX-050712	5/7/2012		25.79	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<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	0.000063 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	
MW13-ROX-110812	11/8/2012	25.57 - 35.57	25.30	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.00011	<0.00011 UJ	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<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	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.00042 U	<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	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.00049 J	<0.0053	<0.00011	<0.00011	0.00076 J	0.00096 J	<0.0053	<0.011
	MW14-ROX-103112	10/31/2012	33.42 - 43.42	32.02	NE	0.00074	0.00008 J	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	0.0003 J	<0.01	<0.005	<0.01 UJ
P-54	P-54-111710	11/17/2010	38.00 - 63.00	36.43	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.003 U	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	P54-ROX-012411	1/24/2011		37.24	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.01	<0.002 U	<0.01
	P54-ROX-051111	5/11/2011		37.37	NE	<0.00011 UJ	<0.00011 UJ	<0.00011 UJ	<0.000054 UJ	0.0001 J J	<0.000054 UJ	<0.00011 UJ	<0.00011 UJ	<0.01	<0.01	<0.005	<0.0024 U	<0.005 UJ	0.000019 J J	<0.00011 UJ	<0.005	<0.01	<0.005 UJ	<0.01
	P54-ROX-072411	7/24/2011		35.38	NE	<0.0001	<0.0001	<0.0001	0.000079 B	0.00014 B	0.00015 B	0.000053 J	0.00017 B	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	0.000081 JB	0.00002 JB	<0.005	<0.01	<0.005	<0.01
	P54-ROX-110311	11/3/2011		35.49	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<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	<0.0001	<0.000052	<0.000024 U	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<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	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	0.0045 J	<0.01	<0.0051	0.0133	<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	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011
P54-ROX-103012	10/30/2012	38.00 - 63.00	40.70	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01	
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0022	<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	<0.0001	<0.000052	0.000022 J	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.0052	<0.0021	<0.00048 U	<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	<0.00011	<0.000054	0.000067 J	0.000061	0.00011	0.000071 J		<0.011 UJ	<0.0054	<0.0022	<0.00035 U	<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	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	0.0007	0.00013	0.00013	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<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	0.00011	<0.000051	0.000021 J	<0.000051	<0.0001	<0.0001		<0.01 UJ	<0.0051	<0.00066 U	<0.00053 U	<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	<0.0001	<0.00011 U	<0.00012 U	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<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	<0.0001	<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	0.00012	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	0.00066 J	<0.01	<0.0051	<0.01 UJ
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	0.00055	<0.00054	<0.00054	<0.00027	<0.00054	<0.00027	<0.00054	<0.00054	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.00054	<0.00054	<0.0054	<0.011	<0.0054	<0.01
	P57-ROX-021312	2/13/2012		42.13	NE	0.00056	<0.0001	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.00043 J	<0.00043 U	<0.0001	<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	<0.0001	0.00011	0.00012	<0.000052	<0.0001	<0.0001	<0.01	<0.01	0.0008 J	<0.0021	<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	<0.0001	<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	<0.0001	<0.0001	0.00073 J	<0.01	<0.001 U	0.0029 J
P57-ROX-110512	11/5/2012	40.46 - 65.46	44.98																					

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

Screening Values (mg/L)						SVOCs																			
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzophenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	
						0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²	
						ANALYTICAL RESULTS (mg/L)																			
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	0.0011	<0.000097	<0.000097	<0.000049	<0.000097	<0.000049	<0.000097	<0.000097	<0.0097	<0.0097	<0.0049	0.003	<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	<0.00011	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	<0.00011	<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	<0.00011	0.000036 J	0.000036 J	<0.000053	<0.00011	<0.00011		<0.011 UJ	<0.0053	0.024 J	<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	0.00057 J	0.00017	<0.0001	<0.000051	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<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	<0.0001 UJ	0.00015	0.000032 J	<0.000052	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<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	0.00094 J	0.00024	0.00011	0.000064	0.000043 J	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00043 J	<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	<0.0001	<0.01	<0.01	<0.005	0.00042 J	<0.005	0.000099 J	<0.0001	0.0025	<0.01	<0.005	<0.01	
	P58-ROX-110612	11/6/2012	40.21 - 65.21	43.09	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P58-ROX-121012	12/10/2012	40.21 - 65.21	43.09	NE	0.00093	0.00024	0.00083	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0103	<0.0054	<0.00011	<0.00011	0.002 J	<0.011	<0.0054	<0.011		
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	0.00077	0.00012	0.00046	0.00019	<0.00011	0.000073	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.0028	<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	0.00025	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	0.000085 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	0.00015	0.00005 J	0.000029 J	0.000027 J	<0.0001	<0.0001		0.00091 J	<0.0051	<0.002	<0.00061 U	0.000074 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	0.000095 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	0.0161	<0.01	<0.005	<0.002	<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	0.00014	0.00021	0.000036 J	0.000047 J	<0.00011	<0.00011	<0.011	<0.011	<0.0053	<0.0021	<0.0053	<0.00011	<0.00011	0.00036 J	<0.011	<0.0053	0.0088 J		
	P59-ROX-110212	11/2/2012	47.91 - 72.91	45.98	NE	0.00043	<0.00011	0.000086 J	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053	<0.0021	<0.0053	<0.00011	<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	0.000084 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.0052	<0.0021	<0.0052	<0.0001	<0.0001	0.00029 J	<0.01	<0.0052	0.0092 J J		
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	0.0018	<0.0001	<0.0001	<0.000095 U	<0.0001	<0.000088 U	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.00011 U	<0.0001	<0.005	<0.01	<0.005	<0.01	
	P66-ROX-051012	5/10/2012		32.48	NE	0.00078	<0.0001	<0.0001	<0.00005	<0.0001	0.000024 J	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.00053 U	<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	<0.00011	0.00018	0.000066 J	0.00008	0.000066 J	<0.00011	<0.011	<0.011	<0.0053	0.00075 J	<0.0053	<0.00011	<0.00011	<0.0021	<0.011	<0.0053	<0.011	
	P66-ROX-103112	10/31/2012	34.72 - 59.72	34.75	NE	0.00078	0.00022	0.0006	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	<0.002	<0.005	<0.0001	<0.0001	0.0019 J	<0.01	<0.005	<0.01 UJ	
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	0.00033	0.00012	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<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	<0.000095	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095		<0.0095 UJ	<0.0048	<0.0019	<0.00043 U	<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	<0.0001	0.00012	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<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	<0.0001	<0.0001	<0.002	<0.01	<0.0012 U	0.0039 J	
	P74-ROX-110112	11/1/2012	44.43 - 69.43	41.72	NE	0.00023	<0.0001	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	<0.0001	<0.0001	0.00031 J	0.001 J	<0.0052	0.008 J J	
P-93A	P93A-102610	10/26/2010	48.17 - 63.17	40.75	NE	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	
	P93A-ROX_012611	1/26/2011		40.97	NE	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098 UJ		<0.0049	<0.002	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0014 U	<0.0098
	P93A-ROX-050511	5/5/2011		41.88	NE	0.00026 J	<0.0001 UJ	0.000035 J J	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001 UJ	<0.0001 UJ	0.00035 J	<0.01	<0.00073 U	<0.01
	P93A-ROX-081811	8/18/2011		39.40	NE	0.00036	<0.0001	0.000058 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.003	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.0029 U	<0.01
	P93A-ROX-102611	10/26/2011		39.43	NE	0.00024	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0075	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.005	<0.01	<0.01
	P93A-ROX-012012	1/20/2012		41.66	NE	0.00014	<0.000095	0.000032 J	<0.000048	<0.000095	<0.000048	<0.000095	<0.000095	<0.000095	<0.0095 UJ	<0.0095	<0.0048	<0.006 U	<0.00053 U	<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	<0.0001	<0.0001 U	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0029	<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	0.000048 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	0.0032 J	<0.011	<0.0054	0.0153	<0.0054	<0.00011	<0.00011	<0.0022	<0.011	<0.0054	<0.011	
	P93A-ROX-110712	11/7/2012	48.17 - 63.17	45.00	NE	<0.00022 U	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0026	<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	0.000061 J	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0023	<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

Screening Values (mg/L)						SVOCs																			
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzophenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	
						0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²	
						ANALYTICAL RESULTS (mg/L)																			
P-93B	P93B-102610	10/26/2010	74.60 - 76.60	40.73	NE	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	
	P93B-ROX_012611	1/26/2011		41.03	NE	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.011 UJ		<0.0053	<0.0021	<0.0053	<0.0053	<0.0053	<0.0053	<0.011	<0.00086 U	<0.011
	P93B-ROX-050511	5/5/2011		41.96	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.002	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01
	P93B-ROX-081811	8/18/2011		39.44	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.001 J	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0021 U	<0.01
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0103	<0.0052	<0.0001	<0.0001	<0.0052	<0.01	<0.0052	<0.01
	P93B-ROX-012012	1/20/2012		41.72	NE	<0.00095	0.000028 J	<0.00095	<0.00048	<0.00095	<0.00048	<0.00095	<0.00095	<0.00095	<0.0095 UJ	<0.0095	<0.0048	<0.0033 U	<0.00033 U	<0.00095	<0.00095	<0.0048	<0.0095	<0.0048	<0.0095
	P93B-ROX-050812	5/8/2012		42.79	NE	<0.0001	<0.0001	<0.0001	<0.000051	<0.00012 U	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<0.0051	<0.0001	<0.0001	<0.0051	<0.0048	<0.0095	<0.0048	<0.0095
	P93B-ROX-080912	8/9/2012		43.69	NE	<0.00011	0.000087 J	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.00011	<0.011	<0.011	<0.0054	0.0036	<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	<0.0001	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0017 J	<0.0051	<0.0001	<0.0001	<0.002	<0.01	<0.0051	<0.01
	P93B-ROX-110712-DUP	11/7/2012		45.05	NE	<0.00047 U	0.000058 J	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00057 J	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01
P-93C	P93C-102610	10/26/2010	94.26 - 96.26	40.69	NE	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.047		<0.009	<0.001 U	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	
	P93C-ROX_012611	1/26/2011		40.91	NE	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01 UJ		<0.0051	<0.002	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.00097 U	<0.01	
	P93C-ROX-050611	5/6/2011		41.84	NE	<0.0001 UJ	0.000041 J J	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0022 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0092	<0.005	<0.0001	<0.0001	<0.005	<0.01	<0.0015 U	<0.01	
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<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	<0.0001	<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	<0.0001	<0.0001	<0.0051	<0.01	<0.0051	<0.01	
	P93C-ROX-050812	5/8/2012		42.68	NE	<0.00011	<0.00011	<0.00011	<0.00012 U	<0.00011	<0.000053	<0.00011	<0.00011	<0.011	<0.011	<0.0053	0.008	<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	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0043	<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	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.00081 J	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	
P-93D	P93D-102610	10/26/2010	125.44 - 127.44	40.59	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.048		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.00005 UJ	<0.0001 UJ	<0.0001 UJ	<0.01	<0.01	<0.005	<0.0027 U	<0.005	<0.0001 UJ	<0.0001 UJ	<0.005	<0.01	<0.005	<0.01	
	P93D-ROX-081811	8/18/2011		39.46	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<0.000015 U	<0.0001	<0.005	<0.01	<0.0018 U	<0.01	
	P93D-ROX-102711	10/27/2011		39.59	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<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	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0054	<0.0022	<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	<0.0001	<0.0001 U	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	<0.002	<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	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.0021 U	<0.0052	<0.0021	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01	
P93D-ROX-110812	11/8/2012	125.75 - 127.75	NM	NE	<0.00011	<0.00011	<0.00011	<0.000055	<0.00011	<0.000055	<0.00011	<0.00011	<0.011	<0.011	<0.0055	<0.0022	<0.0055	<0.00011	<0.00011	<0.0022	<0.011	<0.0055	<0.011		
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.00095	<0.00095	<0.00095	<0.000048	<0.00095	<0.000048	<0.00095	<0.00095	<0.0095	<0.0095	<0.0048	0.0053	<0.0048	<0.00095	<0.00095	<0.0048	<0.0095	<0.0048	<0.0095	
	P114-ROX-012012	1/20/2012		27.17	NE	<0.0001	<0.0001	<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	<0.0001	0.000053 J	<0.0051	<0.01	<0.0051	<0.01	
	P114-ROX-050912	5/9/2012		28.09	NE	<0.0001	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.0015 J	<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	<0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	0.0039	<0.005	<0.0001	<0.0001	<0.002	<0.01	<0.005	<0.01	
	P114-ROX-110912	11/9/2012		32.67 - 52.67	30.90	NE	<0.0001	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	<0.0021	<0.0052	<0.0001	<0.0001	<0.0021	<0.01	<0.0052	<0.01
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	0.000023 J	<0.0001	<0.0001	<0.000052	<0.0001	<0.000052	<0.0001	<0.0001	<0.01	<0.01	<0.0052	0.00065 J	<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	<0.00011	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	0.0016 J	<0.00011	<0.00011	<0.0022	<0.011	0.0033 J	<0.011	
	ROST3PZ-ROX-110112	11/1/2012		40.00 - 50.00	40.82	NE	<0.00011	<0.00011	<0.00011	<0.000053	<0.00011	<0.000053	<0.00011	<0.00011	<0.011 UJ	<0.011	<0.0053</								

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

						SVOCs																			
Screening Values (mg/L)						Acenaphthene	Acenaphthylene	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	Chrysene (1,2-Benzphenanthracene)	Dibenzo(a,h)anthracene	Dibenzofuran	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	0.42 ²	0.21 ³	2.1 ²	0.00013 ²	0.0002 ¹	0.00018 ²	0.21 ³	0.00017 ²	28 ⁴	0.7 ³	0.01 ²	0.006 ²	1.4 ²	0.0015 ²	0.0003 ²	0.007 ³	0.021 ²	5.6 ²	0.14 ²	
						ANALYTICAL RESULTS (mg/L)																			
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	0.00079	0.00012	0.00017	<0.000051	<0.0001	<0.000051	<0.0001	<0.0001	<0.01	<0.01	<0.0051	0.0025	<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	0.00014	<0.000056	0.000032 J	0.000035 J	0.000069 J	<0.00011		<0.011 UJ	<0.0056	<0.0017 U	<0.00062 U	<0.00011	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	0.000081 J	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01	<0.01	<0.005	<0.002	<0.005	<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	0.0001 J	<0.000054	<0.00011	<0.000054	<0.00011	<0.00011	<0.011	<0.011	<0.0054	<0.0022	<0.0054	<0.00011	<0.00011	0.0003 J	<0.011	<0.0054	0.0153	
	T12-ROX-110512	11/5/2012	46.72 - 72.72	43.91	NE	0.00044	<0.0001	0.0001	<0.00005	<0.0001	<0.00005	<0.0001	<0.0001	<0.01 UJ	<0.01	<0.005	0.00054 J	<0.005	<0.0001	<0.0001	0.00029 J	<0.01	<0.005	0.0028 J J	

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

Screening Values (mg/L)						SVOCs																			
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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	
						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²	
						ANALYTICAL RESULTS (mg/L)																			
MW-01	MW-1-111110	11/11/2010	43.41 - 58.41	36.91	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
	MW-1-111110-Dup	11/11/2010		36.91	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MW1-ROX-011711	1/17/2011		37.58	NE	<0.0063	<0.0063	<0.0063	<0.0063		<0.0063	<0.0063		<0.0063	<0.013	<0.013	<0.013	<0.0063		<0.0063	<0.013	<0.0063	<0.0063	<0.0063	<0.0063
	MW1-ROX-042911	4/29/2011		38.37	NE	<0.00085 U	<0.0063	<0.0063	<0.0063		<0.0063	<0.0063		<0.0063	<0.013	<0.013	<0.013	<0.0063		<0.0063 UJ	<0.0063	<0.013	<0.0063	<0.0063 UJ	<0.0063
	MW1-ROX-072711	7/27/2011		35.77	NE	<0.005	<0.005	<0.0001	<0.0001		<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
	MW1-ROX-120511	12/5/2011	37.10	NE	<0.0051	<0.0051	<0.0001	<0.0001		<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	<0.00011	0.000059 J		<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	<0.00054 U	<0.0051	<0.0001	<0.0001		<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	<0.00043 U	<0.0053	<0.00011	<0.00011		<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	<0.00011	<0.00011		<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	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-02	MW-2-111010	11/11/2010	47.19 - 62.19	38.12	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		0.014	<0.01	0.007 J	<0.019	<0.01		<0.01	<0.01	<0.01	0.006 J	<0.01	
	MW2-ROX-011711	1/17/2011		38.67	NE	<0.0048	<0.0048	<0.0048	<0.0048		<0.0048	<0.0048		0.0065	0.0028 J	0.0035 J	<0.0095		<0.0048		<0.0048	<0.0095	<0.0048	<0.0048	<0.0048
	MW02-ROX-051011	5/10/2011		39.14	NE	<0.001 U	<0.0052	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.0052	0.0049 J J	0.0118 J	0.0062 J	0.0119	<0.01	<0.0052 UJ		<0.0052	<0.0052	<0.01	<0.000052 UJ	0.0057	<0.0001
	MW2-ROX-072711	7/27/2011		37.04	NE	<0.005	<0.005	<0.0001	<0.0001		<0.0001	<0.005	0.0098	0.0167	<0.01	0.0193 J	<0.01	<0.005		<0.005	<0.005	<0.01	<0.00005	0.0086	<0.0001
	MW2-ROX-072711-DUP	7/27/2011	37.04	NE	<0.005	<0.005	<0.0001	<0.0001		<0.0001	<0.005	0.0096	0.0169	<0.01	0.0144 J	<0.01	<0.005		<0.005	<0.005	<0.01	<0.00005	0.0075	<0.0001	
	MW2-ROX-112811	11/28/2011	49.87 - 59.87	38.03	NE	<0.005	<0.005	<0.0001	<0.0001		<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	0.00056 J	<0.0053	<0.00011	0.000052 J		<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	<0.0005 U	<0.0052	<0.0001	<0.0001		<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	<0.00047 U	<0.0053	<0.00011	<0.00011		<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	0.000061 J	0.00011		<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		
MW-03	MW-3-111210	11/12/2010	30.98 - 45.98	24.05	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
	MW3-ROX-011811	1/18/2011		24.92	NE	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053	
	MW03-ROX-051011	5/10/2011		24.79	NE	<0.0014 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	0.00019 J J	<0.01	<0.01	<0.01	<0.005 UJ		<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	MW3-ROX-080311	8/3/2011		22.72	NE	<0.00061 U	<0.0048	<0.000095	<0.000095		<0.000095	<0.0048	0.00029	0.00017 J	<0.0095	<0.0095	<0.0095	<0.0048		<0.0048	<0.0048	<0.0095	<0.000048	<0.0048 UJ	<0.000095
	MW3-ROX-112911	11/29/2011		24.06	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	<0.0001	<0.0001		<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	34.67 - 44.67	24.93	NE	<0.0052	<0.0052	0.000098 J	<0.0001		<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	<0.00047 U	<0.0052	<0.0001	<0.0001		<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	<0.00066 U	<0.0053	<0.00011	<0.00011		<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	34.67 - 44.67	28.39	NE	<0.0051	<0.0051	<0.0001	<0.0001		<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
MW-04	MW-4-111210	11/12/2010	42.63 - 57.63	35.38	NE	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		<0.009	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	<0.009	<0.009	
	MW4-ROX-011811	1/18/2011		36.04	NE	<0.0052	<0.0052	<0.0052	<0.0052		<0.0052	<0.0052		<0.0052	<0.01	<0.01	<0.01	<0.0052		<0.0052	<0.01	<0.0052	<0.0052	<0.0052	
	MW04-ROX-051111	5/11/2011		36.19	NE	<0.0012 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	0.00033 J	<0.01	<0.01	<0.01	<0.005 UJ		<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	MW4-ROX-072611	7/26/2011		34.15	NE	<0.005	<0.005	<0.0001	<0.0001		<0.0001	<0.005	0.00044	0.00029	<0.01	<0.01	<0.01	<0.005		<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW4-ROX-072611-DUP	7/26/2011		34.15	NE	<0.005	<0.005	<0.0001	<0.0001		<0.0001	<0.005	0.00031	0.0002	<0.01	<0.01	<0.01	<0.005		<0.005	<0.005	<0.01	<0.00005	<0.005	<0.0001
	MW4-ROX-121511	12/15/2011	33.99	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	1/16/201																							

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

Screening Values (mg/L)						SVOCs																			
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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	
						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²	
MW-05	MW-5-111210	11/12/2010	31.13 - 46.13	23.32	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
	MW5-ROX-011811	1/18/2011		24.15	NE	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.0053
	MW05-ROX-051211	5/12/2011		23.98	NE	<0.0009 U	<0.0053	<0.00011 UJ	<0.00011 UJ		<0.00011 UJ	<0.0053	<0.0053 UJ	0.00004 J J	<0.011	<0.011	<0.011	<0.0053 UJ	<0.0053	<0.0053	<0.011	<0.000053 UJ	<0.0053 UJ	<0.0053 UJ	<0.00011
	MW5-ROX-072611	7/26/2011		22.00	NE	<0.005	<0.005	<0.0001	<0.0001		<0.0001	<0.005	0.00056	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.005	<0.0001
	MW5-ROX-072611-DUP	7/26/2011	22.00	NE	<0.005	<0.005	<0.0001	<0.0001		<0.0001	<0.005	0.00075	<0.0002	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	<0.005	<0.0001	
	MW5-ROX-112111	11/21/2011	23.46	NE	0.00052 J	<0.0053	0.00041	<0.00011		<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	<0.0053	<0.00011	
	MW5-ROX-011712	1/17/2012	24.76	NE	<0.0053	<0.0053	<0.00011	<0.00011		<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	<0.0053	<0.00011	
	MW5-ROX-050312	5/3/2012	25.89	NE	<0.0005 U	<0.0051	<0.0001	<0.0001		<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	<0.0051	<0.0001	
	MW5-ROX-072512	7/25/2012	26.18	NE	0.00057 J	<0.0052	<0.0001	<0.0001		<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	<0.0051	<0.0001	
MW5-ROX-102912	10/29/2012	33.97 - 43.97	28.16	NE	<0.0051	<0.0051	<0.0001	<0.0001		<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	<0.0051	<0.0001	
MW-06A	MW-6A-110910	11/9/2010	31.98 - 46.98	25.62	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
	MW6A-ROX-011911	1/19/2011		26.36	NE	0.00081 J	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	
	MW6A-ROX-051611	5/16/2011		26.10	NE	<0.0016 U	<0.005	<0.0001 UJ	0.00025 J		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.005	
	MW6A-ROX-072611	7/26/2011		23.76	NE	<0.005	<0.005	<0.0001	<0.0001		<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	<0.005	
	MW6A-ROX-112111	11/21/2011	25.49	NE	0.00053 J	0.00093 J	<0.0001	<0.0001		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	<0.0052	<0.0001	
	MW6A-ROX-112111-DUP	11/21/2011	25.49	NE	0.00069 J	<0.0051	<0.0001	<0.0001		<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	<0.0051	<0.0001	
	MW6A-ROX-011712	1/17/2012	34.83 - 44.83	26.74	NE	<0.0054	<0.0054	<0.00011	<0.00011		<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	<0.0001	<0.0001		<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	<0.005	<0.0001	
	MW6A-ROX-080112	8/1/2012	28.36	NE	0.00049 J	<0.005	<0.0001	<0.0001		<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	<0.005	<0.0001	
MW6A-ROX-102412	10/24/2012	34.83 - 44.83	30.06	NE	<0.0053	<0.0053	<0.00011	<0.00011		<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		
MW-06B	MW-6B-111610	11/16/2010	64.05 - 69.05	25.47	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
	MW6B-ROX-011911	1/19/2011		26.21	NE	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005	
	MW6B-ROX-011911-DUP	1/19/2011		26.21	NE	<0.0051	<0.0051	<0.0051	<0.0051		<0.0051	<0.0051		<0.0051	<0.01	<0.01	<0.01	<0.0051		<0.0051	<0.01	<0.0051	<0.0051	<0.0051	
	MW6B-ROX-051611	5/16/2011		25.95	NE	<0.0012 U	<0.0048	<0.000095 UJ	<0.000095 UJ		<0.000095 UJ	<0.0048	<0.0048 UJ	<0.00019 UJ	<0.0095	<0.0095	<0.0095	<0.0048 UJ	<0.0048	<0.0048	<0.0095	<0.000048 UJ	<0.0048	<0.000095	
	MW6B-ROX-051611-DUP	5/16/2011	25.95	NE	<0.0014 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.005		
	MW6B-ROX-072311	7/23/2011	23.60	NE	<0.00047 U	<0.0053	<0.00021 U	<0.00011		<0.000057 U	<0.0053	<0.00021	<0.000022 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.000044 U	<0.0053 UJ	<0.00023 U		
	MW6B-ROX-110311	11/3/2011	24.67	NE	<0.005	<0.005	<0.0001	<0.0001		<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	<0.005		
	MW6B-ROX-011712	1/17/2012	26.77	NE	0.00055 J	<0.0055	<0.00011	<0.00011		<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	<0.0055		
	MW6B-ROX-050212	5/2/2012	27.82	NE	0.00039 J	<0.005	<0.0001	<0.0001		<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	<0.005		
MW6B-ROX-080112	8/1/2012	28.39	NE	0.0007 J	<0.0051	<0.0001	<0.0001		<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	<0.0051			
MW6B-ROX-102412	10/24/2012	64.05 - 69.05	30.11	NE	0.00079 J	<0.0051	<0.0001	<0.0001		<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		
MW-06C	MW-6C-111610	11/16/2010	84.95 - 89.95	25.25	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
	MW6C-ROX-012111	1/21/2011		25.97	NE	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053	
	MW6C-ROX-051611	5/16/2011		25.76	NE	<0.0013 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001	
	MW6C-ROX-072411	7/24/2011		23.43	NE	<0.0004 U	<0.0053	0.000024 JB	<0.00011		0.000025 J	<0.0053	<0.00021	0.000017 JB	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	0.00002 JB	<0.0053 UJ	0.000023 JB	
	MW6C-ROX-110311	11/3/2011	24.47	NE	<0.005	<0.005	<0.0001	<0.0001		<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	<0.00011	<0.00011		<0.00011	<0.0054	<0.00022	<0.00022	<0.011	<0.011	<0.011	<0.								

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

Screening Values (mg/L)						SVOCs																			
						Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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	
						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²	
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																			
MW-06D	MW6D-111610	11/16/2010	104.72 - 109.72	25.13	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
	MW6D-ROX-012111	1/21/2011		25.87	NE	0.00071 J	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053	<0.0053
	MW6D-ROX-051611	5/16/2011		25.60	NE	<0.0015 U	<0.0055	<0.00011 UJ	<0.00011 UJ		<0.00011 UJ	<0.0055	<0.0055 UJ	<0.00022 UJ	<0.011	<0.011	<0.011	<0.0055 UJ	<0.0055	<0.0055	<0.011	<0.000055 UJ	<0.0055	<0.00011	<0.00011
	MW6D-ROX-072311	7/23/2011		23.29	NE	<0.00046 U	<0.0053	<0.000067 U	<0.00011		<0.000033 U	<0.0053	<0.00021	<0.000018 U	<0.011	<0.011	<0.011	<0.0053	<0.0053	<0.0053	<0.011	<0.00004 U	<0.0053 UJ	<0.000063 U	<0.000063 U
	MW6D-ROX-110311	11/3/2011		24.31	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	<0.0001
	MW6D-ROX-011712	1/17/2012		26.33	NE	0.00047 J	<0.0055	<0.00011	<0.00011		<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	<0.00011
	MW6D-ROX-050212	5/2/2012		27.45	NE	0.00047 J	<0.005	<0.0001	<0.0001		<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	<0.0001
	MW6D-ROX-080212	8/2/2012		30.56	NE	<0.0051	<0.0051	<0.0001	<0.0001		<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	<0.0001
	MW6D-ROX-102412	10/24/2012	104.72 - 109.72	29.71	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	<0.0001
MW-07	MW7-111710	11/17/2010	42.92 - 52.92	36.93	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	0.034	<0.01	
	MW7-111710-Dup	11/17/2010		36.93	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.02	<0.01		<0.01	<0.01	<0.01	0.032	<0.01	<0.01
	MW7-ROX-012511	1/25/2011		37.52	NE	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		0.0023 J	<0.011	0.00099 J	<0.011	<0.0053		<0.0053	<0.011	<0.0053	0.0737	<0.0053	<0.0053
	MW07-ROX-051311	5/13/2011		37.50	NE	<0.0017 U	<0.0054	<0.00011 UJ	0.0001 J J		<0.00011 UJ	<0.0054	0.0026 J J	0.0049 J	<0.011	0.00082 J	<0.011	<0.0054 UJ	<0.0054	<0.0054	<0.011	0.00017 J	0.0774	0.000044 J	0.000044 J
	MW07-ROX-051311D	5/13/2011		37.50	NE	<0.0018 U	<0.0055	<0.00011 UJ	0.000097 J J		<0.00011 UJ	<0.0055	0.0026 J J	0.0047 J	<0.011	0.00078 J	<0.011	<0.0055 UJ	<0.0055	<0.0055	<0.011	0.00017 J	0.0793	0.000051 J	0.000051 J
	MW7-ROX-072411	7/24/2011		35.65	NE	<0.00044 U	<0.0054	0.00003 J	0.000066 J		<0.00011	<0.0054	0.0024	0.003	<0.011	<0.011	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.000082 B	<0.0513 UJ	0.00003 J	0.00003 J
	MW7-ROX-110211	11/2/2011		35.95	NE	<0.005	<0.005	<0.0001	<0.00028 U		<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	<0.0001
	MW7-ROX-011812	1/18/2012		38.10	NE	0.00045 J	<0.005	<0.0001	0.00018		<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	<0.000042 U
	MW7-ROX-011812-DUP	1/18/2012		38.10	NE	<0.0056	<0.0056	<0.00011	0.0002		<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	<0.000043 U
	MW7-ROX-050412	5/4/2012		39.19	NE	<0.00095 U	<0.005	0.000039 J	0.00019		<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	<0.0001
	MW7-ROX-080712	8/7/2012		39.50	NE	<0.0051	<0.0051	<0.0001	0.00016		<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	<0.0001
	MW7-ROX-103012	10/30/2012		42.92 - 52.92	41.23	NE	<0.0058	<0.0058	<0.00012	0.00023		<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	<0.00011	0.00026		<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	<0.00005 U	
MW-08	MW8-111710	11/17/2010	33.60 - 43.60	27.84	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		0.005 J	<0.01	0.023	<0.019	<0.01		<0.01	<0.01	<0.01	0.053	<0.01	
	MW8-ROX-012511	1/25/2011		28.59	NE	<0.005	0.0004 J	<0.005	<0.005		<0.005	<0.005		0.0069	0.0195	0.0502	<0.01	<0.005		<0.005	<0.01	<0.005	0.119 J	<0.005	<0.005
	MW8-ROX-012511-DUP	1/25/2011		28.59	NE	<0.0057	<0.0057	<0.0057	<0.0057		<0.0057	<0.0057		0.0075	0.0228	0.0587	<0.011	<0.0057		<0.0057	<0.011	<0.0057	0.171 J	<0.0057	<0.0057
	MW08-ROX-051311	5/13/2011		28.35	NE	<0.0014 U	<0.0055	0.00003 J J	0.00023 J		<0.00011 UJ	<0.0055	0.0053 J J	0.0075 J	0.0108 J	0.0243	<0.011	0.0041 J J	<0.0055	<0.0055	<0.011	0.000086 J	0.209	0.000028 J	0.000028 J
	MW08-ROX-051311D	5/13/2011		28.35	NE	<0.0021 U	<0.0056	<0.00011 UJ	0.00021 J		<0.00011 UJ	<0.0056	0.0055 J J	0.0089 J	0.0105 J	0.0249	<0.011	<0.0056 UJ	<0.0056	<0.0056	<0.011	0.00012 J	0.208	<0.00011	<0.00011
	MW8-ROX-072411	7/24/2011		26.02	NE	<0.0054	0.00077 J	0.000031 JB	0.00034		0.000032 J	<0.0054	0.0055	0.0068	0.0205	0.0486	<0.011	<0.0054	<0.0054	<0.0054	<0.011	0.00014 B	0.0972 J	0.000031 JB	0.000031 JB
	MW8-ROX-072411-DUP	7/24/2011		26.02	NE	<0.00038 U	0.00054 J	0.000022 JB	0.0003		0.000042 J	<0.0055	0.0052	0.0064	0.0177	0.0423	<0.011	<0.0055	<0.0055	<0.0055	<0.011	0.00011 B	0.0906 J	0.000023 JB	0.000023 JB
	MW8-ROX-110211	11/2/2011		27.02	NE	<0.0048	<0.0048	<0.000095	<0.00032 U		<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	<0.000095
	MW8-ROX-011812	1/18/2012		29.15	NE	<0.0053	<0.0053	<0.00053	0.00074		<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	<0.00053
	MW8-ROX-050412	5/4/2012		30.21	NE	<0.00063 U	<0.0053	<0.00011	0.00024		<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	<0.00011
	MW8-ROX-050412-DUP	5/4/2012		30.21	NE	<0.005	<0.005	<0.0001	0.00031		<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	<0.0001
	MW8-ROX-080712	8/7/2012		30.97	NE	<0.0054	<0.0054	<0.00011	0.00027		<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	<0.00011
	MW8-ROX-080712-DUP	8/7/2012		30.97	NE	<0.0056	<0.0056	<0.00011	0.00026		<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	<0.00011
	MW8-ROX-103012	10/30/2012	33.60 - 43.60	32.32	NE	0.00082 J	0.00063 J	0.00059 B	0.00053		0.00059 B	<0.0053	0.0097	0.0112	0.0058 J	0.0158	<0.011	<0.0053	<0.0053 UJ	0.00052 J	0.00057	0.165 J	0.00054 B	0.00054 B</	

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

Screening Values (mg/L)						SVOCs																		
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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
						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²
						ANALYTICAL RESULTS (mg/L)																		
MW-09	MW-9-111510	11/15/2010	46.45 - 56.45	39.00	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
	MW9-ROX-012111	1/21/2011		39.62	NE	0.00064 J	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	<0.011	<0.0053		<0.0053	<0.011	<0.0053	<0.0053	<0.0053
	MW09-ROX-050611	5/6/2011		40.12	NE	<0.00046 U	<0.0049	0.00002 J J	<0.000097 UJ		<0.000097 UJ	<0.0049	<0.0049 UJ	<0.00019 UJ	<0.0097	<0.0097	<0.0097	<0.0049 UJ	<0.0049	<0.0049	<0.0097	<0.000049 UJ	<0.0049	<0.000097
	MW9-ROX-072311	7/23/2011		38.06	NE	<0.0054	<0.0054	<0.000044 U	<0.00011		<0.000031 U	<0.0054	<0.00022	<0.00022	<0.01 UJ	<0.01 UJ	<0.011	<0.0054	<0.0054	<0.0054	<0.01 UJ	<0.00003 U	<0.005 UJ	<0.000046 U
	MW9-ROX-110111	11/1/2011		37.78	NE	<0.005	<0.005	<0.0001	<0.0001		<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	0.00048 J	<0.0057	<0.00011	<0.00011		<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	<0.00054 U	<0.005	<0.0001	<0.0001		<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	46.45 - 56.45	43.17	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	
MW-10	MW-10-111010	11/10/2010	44.43 - 54.43	38.97	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	
	MW10-ROX-012411	1/24/2011		39.40	NE	<0.0051	<0.0051	<0.0051	<0.0051		<0.0051	<0.0051		<0.0051	<0.01	<0.01	<0.01	<0.0051		<0.0051	<0.01	<0.0051	<0.0051	
	MW10-ROX-012411-DUP	1/24/2011		39.40	NE	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	
	MW10-ROX-042811	4/28/2011		40.20	NE	<0.00061 U	<0.0048	<0.0048	<0.0048		<0.0048	<0.0048		<0.0048	<0.0095	<0.0095	<0.0095	<0.0048	<0.0048 UJ	<0.0048	<0.0095	<0.0048	<0.0048 UJ	<0.0048
	MW10-ROX-072311	7/23/2011		38.01	NE	<0.005	<0.005	<0.000047 U	<0.0001		<0.000031 U	<0.005	<0.0002	<0.00002 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000027 U	<0.005 UJ	<0.000044 U
	MW10-ROX-110111	11/1/2011		37.72	NE	<0.005	<0.005	<0.0001	<0.0001		<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	0.00081 J	<0.0053	0.000052 J	<0.00011		<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	<0.00041 U	<0.0052	<0.0001	<0.0001		<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	<0.00043 U	<0.005	<0.0001	<0.0001		<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		44.43 - 54.43	43.08	NE	<0.0056	<0.0056	0.000052 J	0.000086 J		<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
MW10-ROX-121712	12/17/2012	43.08	NE	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-11	MW-11-111710	11/17/2010	41.66 - 51.66	36.39	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	
	MW11-ROX-012411	1/24/2011		37.15	NE	<0.0052	<0.0052	<0.0052	<0.0052		<0.0052	<0.0052		<0.0052	<0.01	<0.01	<0.01	<0.0052		<0.0052	<0.01	<0.0052	<0.0052	
	MW11-ROX-050611	5/6/2011		37.60	NE	<0.001 U	<0.0048	0.000026 J J	<0.000095 UJ		0.000015 J J	<0.0048	<0.0048 UJ	<0.00019 UJ	<0.0095	<0.0095	<0.0095	<0.0048 UJ	<0.0048	<0.0048	<0.0095	0.000025 J J	<0.0048	0.000026 J
	MW11-ROX-072411	7/24/2011		34.3	NE	<0.0056	<0.0056	0.000025 JB	<0.00011		0.000026 J	<0.0056	<0.00022	0.000023 JB	<0.011	<0.011	<0.011	<0.0056	<0.0056	<0.0056	<0.011	0.000021 JB	<0.0056 UJ	0.000024 JB
	MW11-ROX-110211	11/2/2011		35.44	NE	<0.0054	<0.0054	<0.00011	<0.00011		<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	<0.0001	<0.0001		<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	<0.00057 U	<0.0058	<0.00012	<0.00012		<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	41.66 - 51.66	40.59	NE	<0.0054	<0.0054	<0.00011	<0.00011		<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	
MW-12	MW-12-111510	11/15/2010	41.92 - 51.92	36.63	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	
	MW12-ROX-012411	1/24/2011		37.42	NE	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	
	MW12-ROX-051211	5/12/2011		37.58	NE	<0.0011 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005 UJ	<0.0001
	MW12-ROX-072411	7/24/2011		35.55	NE	<0.00039 U	<0.005	0.000035 JB	<0.0001		0.000047 J	<0.005	<0.0002	<0.0002	<0.01 UJ	<0.01 UJ	<0.01	<0.005	<0.005	<0.005	<0.01 UJ	0.000024 JB	<0.005 UJ	0.00004 JB
	MW12-ROX-110211	11/2/2011		35.70	NE	<0.0048	<0.0048	<0.000095	<0.000095		<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-110211-DUP	11/2/2011		35.70	NE	<0.0048	<0.0048	<0.000095	<0.000095		<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	<0.00011	<0.00011		<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	<0.00011	<0.00011		<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	<0.0001	<0.0001		<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	<0.00063 U	<0.0053	<0.00011	<0.00011		<0.00011	<0.0053	<											

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

Screening Values (mg/L)						SVOCs																		
Screening Values (mg/L)						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																		
						Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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
MW-13	MW13-ROX-012511	1/25/2011	25.57 - 35.57	24.28	NE	<0.0052	<0.0052	<0.0052	0.00044 J		<0.0052	<0.0052		0.0021 J	<0.01	<0.01	<0.01	<0.0052		<0.0052	<0.01	0.0012 J	<0.0052	0.00032 J
	MW13-ROX-051311	5/13/2011		23.65	NE	<0.0013 U	<0.005	0.000032 J J	0.00023 J		<0.00099 UJ	<0.005	<0.005 UJ	0.00015 J J	<0.0099	<0.0099	<0.0099	<0.005 UJ	<0.005	<0.005	<0.0099	0.000095 J	<0.005 UJ	0.000089 J
	MW13-ROX-080311	8/3/2011		21.67	NE	<0.00074 U	<0.005	<0.0001	<0.0001		0.00004 J	<0.005	<0.0002	0.00011 J	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.000054 U	<0.005 UJ	0.000041 J
	MW13-ROX-110311	11/3/2011		22.85	NE	<0.0056	<0.0056	<0.00011	<0.00033 U		<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	<0.00058 U	<0.0053	<0.00011	<0.00011		<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	<0.0001	<0.0001		<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	<0.00011	<0.00011		<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	25.57 - 35.57	25.30	NE	0.00054 J	<0.005	<0.0001	<0.0001		<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	
MW-14	MW14-ROX-110911	11/9/2011	33.42 - 43.42			<0.0053	<0.0053	<0.00011	<0.00011		<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	0.00043 J	<0.0052	<0.0001	0.00022		<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	<0.00011	0.00071		<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	33.42 - 43.42	32.02	NE	0.00044 J	<0.005	<0.0001	0.00029		<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
P-54	P-54-111710	11/17/2010	38.00 - 63.00	36.43	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	
	P54-ROX-012411	1/24/2011		37.24	NE	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.01	<0.01	<0.01	<0.005		<0.005	<0.01	<0.005	<0.005	<0.005
	P54-ROX-051111	5/11/2011		37.37	NE	<0.0011 U	<0.005	0.000031 J J	<0.00011 UJ		<0.00011 UJ	<0.005	<0.005 UJ	<0.00022 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.000054 UJ	<0.005	0.000028 J
	P54-ROX-072411	7/24/2011		35.38	NE	<0.00049 U	<0.005	0.000035 JB	<0.0001		0.00004 J	<0.005	<0.0002	0.000026 JB	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	0.000025 JB	<0.005 UJ	0.000031 JB
	P54-ROX-110311	11/3/2011		35.49	NE	<0.005	<0.005	<0.0001	<0.0001		<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	<0.0001	<0.0001		<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	<0.00085 U	<0.0051	<0.0001	<0.0001		<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	<0.00011	<0.00011		<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	38.00 - 63.00	40.70	NE	<0.0051	<0.0051	<0.0001	<0.0001		<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	
P-55	P55-ROX-103111	10/31/2011	39.82 - 64.82	39.15	NE	<0.005	<0.005	<0.0001	<0.0001		<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	<0.0001	0.00038		<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	<0.00011	0.00032		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	<0.0001	0.00069		<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
P-56	P56-ROX-102711	10/27/2011	40.82 - 65.82	39.42	NE	<0.0052	<0.0052	<0.0001	0.00039		<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	<0.00044 U	<0.0051	<0.0001	0.00046		<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	<0.0001	0.00033		<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	<0.00075 U	<0.0051	<0.0001	0.0003		<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	<0.0001	0.00046		<0.0001	<0.0051	0.024	0.0307	<0.01	0.0011 J	<0.01	<0.01	<0.0051	<0.0051 UJ	<0.0051	<0.01	0.0013	<0.0051 UJ
P-57	P57-ROX-110811	11/8/2011	40.46 - 65.46	39.20	NE	<0.0054	<0.0054	<0.00054	0.00076		<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	<0.00046 U	<0.0051	<0.0001	0.00087		<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	<0.0001	0.00045		<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	<0.00087 U	<0.005	<0.0001	0.0006		<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	<0.00089 U	<0.005	<0.0001	0.00063		<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		40.46 - 65.46	44.98	NE	<0.005	<0.005	<0.0001	0.00062		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

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

Screening Values (mg/L)						SVOCs																		
						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																		
						Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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
P-58	P58-ROX-102811	10/28/2011	40.21 - 65.21	37.31	NE	<0.0049	<0.0049	<0.000097	0.0016		<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	<0.00057 U	<0.0053	0.000047 J	0.0017		<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	<0.00059 U	<0.0053	0.000052 J	0.0018		<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	<0.0001	0.0009 J		<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	<0.0001	0.00067 J		<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	<0.00053 U	<0.005	0.000068 J	0.0014		<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	<0.00063 U	<0.005	0.000066 J	0.0015		<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	40.21 - 65.21	43.09	NE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P58-ROX-121012	12/10/2012	40.21 - 65.21	43.09	NE	<0.0054	<0.0054	<0.00011	0.0014		<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	
P-59	P59-ROX-102711	10/27/2011	47.91 - 72.91	41.06	NE	<0.0053	<0.0053	0.00035	0.0012		<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	<0.0005 U	<0.0057	0.000073 J	0.0008		<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	<0.00041 U	<0.0051	0.000073 J	0.00063		<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	0.000062 J	0.00034	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	0.00015	0.00048		<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	47.91 - 72.91	45.98	NE	<0.0053	<0.0053	0.000063 J	0.0005		<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	47.91 - 72.91	45.98	NE	<0.0052	<0.0052	0.000066 J	0.00048		<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	
P-66	P66-ROX-110111	11/1/2011	34.72 - 59.72	28.92	NE	<0.005	<0.005	0.00017	0.003		<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	0.00054 J	<0.005	0.000056 J	0.0015		<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	0.000082 J	0.0011		<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	34.72 - 59.72	34.75	NE	<0.005	<0.005	<0.000051 U	0.0017		<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
P-74	P74-ROX-103111	10/31/2011	44.43 - 69.43	36.26	NE	<0.005	<0.005	<0.0001	0.00044		<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	<0.000095	<0.000095		<0.000095	<0.0048	<0.00019	<0.00019	<0.0095	<0.0095	<0.0095 UJ	<0.0048	<0.0048	<0.0048	<0.0095	<0.00048	0.002 J	<0.000095
	P74-ROX-050712	5/7/2012		39.92	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	<0.00082 U	<0.005	<0.0001	0.00021		<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	44.43 - 69.43	41.72	NE	<0.0052	<0.0052	<0.0001	0.0003		<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	
P-93A	P93A-102610	10/26/2010	48.17 - 63.17	40.75	NE	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		0.023	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	0.31 D J	<0.009
	P93A-ROX_012611	1/26/2011		40.97	NE	<0.0049	<0.0049	<0.0049	0.00032 J		<0.0049	<0.0049		0.0254	<0.0098	0.064	<0.0098 UJ	<0.0049		<0.0049	<0.0098	0.0004 J	0.172	<0.0049
	P93A-ROX-050511	5/5/2011		41.88	NE	<0.001 U	<0.005	0.000019 J J	0.00044 J		<0.0001 UJ	<0.005	0.0172 J	0.0309 J	<0.01	0.0075 J	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	0.0004 J	0.21	0.000026 J
	P93A-ROX-081811	8/18/2011		39.40	NE	<0.001 U	<0.005	<0.000033 U	0.00047		<0.0001	<0.005	0.0224	0.0302	<0.01	0.0093 J	<0.01	<0.005	<0.005	<0.005	<0.01	0.00043	0.183	0.000037 J
	P93A-ROX-102611	10/26/2011		39.43	NE	<0.005	<0.005	<0.0001	0.00033		<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	<0.00038 U	<0.0048	<0.000095	<0.000095		<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	<0.0001	0.00021		<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	<0.00011	0.00021		<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	48.17 - 63.17	45.00	NE	<0.0052	<0.0052	<0.0001	0.00029		<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	48.17 - 63.17	45.00	NE	<0.0052	<0.0052	<0.0001	0.00037		<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	

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

Screening Values (mg/L)						SVOCs																		
						Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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
						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																		
P-93B	P93B-102610	10/26/2010	74.60 - 76.60	40.73	NE	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		<0.009	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	0.094	<0.009
	P93B-ROX_012611	1/26/2011		41.03	NE	<0.0053	<0.0053	<0.0053	<0.0053		<0.0053	<0.0053		<0.0053	<0.011	<0.011	0.00069 J J	<0.0053		<0.0053	<0.011	<0.0053	0.106	<0.0053
	P93B-ROX-050511	5/5/2011		41.96	NE	<0.001 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	<0.0002 UJ	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	0.000017 J J	0.0933	<0.0001
	P93B-ROX-081811	8/18/2011		39.44	NE	<0.00077 U	<0.0052	<0.0001	<0.0001		<0.0001	<0.0052	<0.00021	<0.00021	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	0.116	<0.0001
	P93B-ROX-102611	10/26/2011		39.48	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	<0.000095	<0.000095		<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	<0.0001	<0.0001		<0.0001	<0.0051	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0051	<0.0051	<0.0051	<0.01	<0.000051	0.051	<0.0001
	P93B-ROX-080912	8/9/2012	43.69	NE	<0.0054	<0.0054	<0.00011	<0.00011		<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	74.60 - 76.60	45.05	NE	<0.0051	<0.0051	<0.0001	<0.0001		<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	74.60 - 76.60	45.05	NE	<0.005	<0.005	<0.0001	<0.0001		<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
P-93C	P93C-102610	10/26/2010	94.26 - 96.26	40.69	NE	<0.009	<0.009	<0.009	<0.009		<0.009	<0.009		<0.009	<0.009	<0.009	<0.019	<0.009		<0.009	<0.009	<0.009	<0.009	<0.009
	P93C-ROX_012611	1/26/2011		40.91	NE	<0.0051	<0.0051	<0.0051	<0.0051		<0.0051	<0.0051		<0.0051	<0.01	<0.01	<0.01 UJ	<0.0051		<0.0051	<0.01	<0.0051	0.0166	<0.0051
	P93C-ROX-050611	5/6/2011		41.84	NE	<0.0011 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	0.00009 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	0.0144	<0.0001
	P93C-ROX-081811	8/18/2011		39.32	NE	<0.00064 U	<0.005	<0.0001	<0.0001		<0.0001	<0.005	<0.0002	<0.000033 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	0.0046 J	<0.0001
	P93C-ROX-102611	10/26/2011		39.36	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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	<0.0001	<0.0001		<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	<0.00011	<0.00011		<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	<0.0001	<0.0001		<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	94.26 - 96.26	45.12	NE	<0.005	<0.005	<0.0001	<0.0001		<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
P-93D	P93D-102610	10/26/2010	125.44 - 127.44	40.59	NE	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01	<0.019	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01
	P93D-ROX-050511	5/5/2011	125.75 - 127.75	41.96	NE	<0.0011 U	<0.005	<0.0001 UJ	<0.0001 UJ		<0.0001 UJ	<0.005	<0.005 UJ	0.000045 J J	<0.01	<0.01	<0.01	<0.005 UJ	<0.005	<0.005	<0.01	<0.00005 UJ	<0.005	<0.0001
	P93D-ROX-081811	8/18/2011	39.46	NE	<0.0011 U	<0.005	<0.000023 U	<0.0001		<0.0001	<0.005	<0.0002	<0.000042 U	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.01	<0.00005	<0.005	0.000021 J	
	P93D-ROX-102711	10/27/2011	39.59	NE	<0.005	<0.005	<0.0001	<0.0001		<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	<0.00011	<0.00011		<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	<0.0001	<0.0001		<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	<0.0001	<0.0001		<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	125.75 - 127.75	NM	NE	<0.0055	<0.0055	<0.00011	<0.00011		<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	
P-114	P114-ROX-102811	10/28/2011	32.67 - 52.67	24.73	NE	<0.0048	<0.0048	<0.000095	<0.000095		<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	<0.0001	<0.0001		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	<0.0001	<0.0001		<0.0001	<0.0052	<0.0002	<0.0002	<0.01	<0.01	<0.01	<0.0052	<0.0052	<0.0052	<0.01	<0.000052	<0.0052	<0.0001
	P114-ROX-080912	8/9/2012		29.13	NE	<0.005	<0.005	<0.0001	<0.0001		<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	32.67 - 52.67	30.90	NE	<0.0052	<0.0052	<0.0001	<0.0001		<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
ROST-3-PZ	ROST3PZ-ROX-051412	5/14/2012	40.00 - 50.00	38.82	NE	<0.00043 U	<0.0052	<0.0001	<0.0001		<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	0.0049 J	<0.0054	<0.00011	<0.00011		<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	40.00 - 50.00	40.82	NE	0.0017 J	<0.0053	<0.00011	<0.00011		<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-4-PZ(C)	ROST4PZ-C-051412	5/14/2012	34.95 - 44.95	39.04	NE	<0.00058 U	<0.005	<0.0001	0.00022		<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	0.0015 J	<0.0053	<0.000041 U	0.00032 B		<0.00														

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

						SVOCs																		
Screening Values (mg/L)						Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	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
Location	Sample ID	Sample Date	Screened Interval (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	ANALYTICAL RESULTS (mg/L)																		
						0.7 ²	0.14 ²	0.28 ²	0.28 ²		0.00043 ²	1.4 ²	0.49 ³	0.028 ⁴	0.35 ²	0.35 ³		0.0035 ²	0.0006 ³	0.0032 ²	0.001 ²	0.21 ³	0.1 ¹	0.21 ²
T-12	T12-ROX-102711	10/27/2011	46.72 - 72.72	38.54	NE	<0.0051	<0.0051	<0.0001	0.0006		<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	<0.00048 U	<0.0056	0.000044 J	0.00043		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	<0.0001	0.00024		<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	0.000046 J	0.00029		<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	46.72 - 72.72	43.91	NE	<0.005	<0.005	<0.0001	0.00031		<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

Notes:

- ¹ Denotes screening criteria source from 35 I.A.C. 620, Subpart D.
- ² Denotes screening criteria 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 I Tables).
- ⁴ Denotes screening criteria source R2008-018, Proposed Revisions to Groundwater Quality Standards, 35 I.A.C. 620.
- ⁵ Beginning in 4Q12, naphthalene was analyzed via 8260 VOC, and prior historic results were reported by PAH analysis.

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

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 nondetect.
- U = Result is non-detect.

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC15232

Sampling Date: 10/24/12

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 98



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. Madadian
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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ACCUTEST

October 21, 2016

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

RE: SGS Accutest Job # MC15232

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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TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC15232
URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC15232-1	10/24/12	09:40	DMLR10/25/12	AQ	Ground Water	MW6A-ROX-102412
MC15232-2	10/24/12	10:30	DMLR10/25/12	AQ	Ground Water	MW6B-ROX-102412
MC15232-3	10/24/12	10:45	DMLR10/25/12	AQ	Equipment Blank	MW6B-ROX-102412EB
MC15232-4	10/24/12	13:32	DMLR10/25/12	AQ	Ground Water	MW6C-ROX-102412
MC15232-5	10/24/12	14:30	DMLR10/25/12	AQ	Ground Water	MW6D-ROX-102412
MC15232-6	10/24/12	00:00	DMLR10/25/12	AQ	Ground Water	TB-102412-ST-R
MC15232-7	10/24/12	00:00	DMLR10/25/12	AQ	Ground Water	TB-102412-HCL-R

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: She O

Job No MC 5232

Site: URSMOSTL:Roxana 4Q 2 GW/2 562735 00009 900 South Centra **Report Date** 10/21/2016 6:27:00 P

7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 10/24/2016 and were received at SGS Accutest New England on 10/25/2016 properly preserved, at 22 Deg C and intact. These Samples received a job number of MC 5232. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: MSN26 8

- All samples were analyzed within the recommended method hold time.
- Samples MC 5299-2MS, MC 5299-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specification criteria.
- Blank Spike Recovery(s) for Acrylonitrile, Acrylonitrile are out of control limits.
- Matrix Spike Recovery(s) for Acrylonitrile, Acrylonitrile are out of control limits. Out of control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Acrylonitrile are out of control limits. Probable cause due to matrix interference.
- MC 5299-2MS for Acrylonitrile: Out of control limits. Associated samples are non-detect for this compound.
- MC 5232- for Acetone: In the Calibration Verification out of acceptance criteria. Sample result may be biased high.
- MSN26 8-BS for Acrylonitrile: Out of control limits. Associated samples are non-detect for this compound.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ

Batch ID: OP30833

- All samples were extracted within the recommended method hold time.
- All samples were analyzed within the recommended method hold time.
- Samples MC 5400-7MS, MC 5400-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specification criteria.
- Matrix Spike Recovery(s) for 2,4-Dinitrobenzene, 2,6-Dinitrobenzene, 2-Chloronaphthalene, Aniline, Hexachlorobenzene, Isophorone, Nitrobenzene, Pyridine are out of control limits. Out of control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrobenzene, 2,6-Dinitrobenzene, 2-Chloronaphthalene, Hexachlorobenzene, Isophorone, Nitrobenzene are out of control limits. Probable cause due to matrix interference.
- Samples MC 5232-3 have surrogate out of control limits. Confirmation run for surrogate recoveries.
- MC 5232-3: Confirmation run for surrogate recoveries.
- MC 5232-3 for Pheno-d5: Out of control limits due to possible matrix interference. Confirmed by reanalysis.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ

Batch ID: OP30834

- All samples were extracted within the recommended method holding time
- All samples were analyzed within the recommended method holding time
- All method blanks for this batch meet method specifications
- Sample(s) MC 5400-8MS, MC 5400-8MSD were used as the QC samples indicated
- Sample(s) MC 5232-3 have surrogates out of control limits. Confirmation run for surrogate recoveries
- MC 5232-3: Confirmation run for surrogate recoveries
- MC 5232-3 for Pheno-d5: Out of control limits due to possible matrix interference. Confirmed by reanalysis
- MC 5232-5 for Perylene-d 2: Out of control limits. Target analytes not associated with this internal standard
- MC 5232-3: Internal standard out of control limits due to possible matrix interference. Confirmed by reanalysis

Volatiles by GC By Method SW846 8011

Matrix: AQ

Batch ID: OP30822

- All samples were extracted within the recommended method holding time
- All samples were analyzed within the recommended method holding time
- Sample(s) MC 5278-6MS, MC 5278-6MSD were used as the QC samples indicated
- All method blanks for this batch meet method specifications

SGS Accutest New England certifies that all analyses were performed within method specifications. It is further recommended that this report be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report (MC 5232)

Summary of Hits

Job Number: MC15232
Account: Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
Collected: 10/24/12



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC15232-1 MW6A-ROX-102412

Acetone ^a	120	5.0	3.0	ug/l	SW846 8260B
Benzene	0.73	0.50	0.24	ug/l	SW846 8260B

MC15232-2 MW6B-ROX-102412

Benzene	1.5	0.50	0.24	ug/l	SW846 8260B
Methyl Tert Butyl Ether	9.1	1.0	0.41	ug/l	SW846 8260B
Butyl benzyl phthalate	0.57 J	5.1	0.27	ug/l	SW846 8270C
Di-n-butyl phthalate	0.79 J	5.1	0.36	ug/l	SW846 8270C

MC15232-3 MW6B-ROX-102412EB

No hits reported in this sample.

MC15232-4 MW6C-ROX-102412

Benzene	0.35 J	0.50	0.24	ug/l	SW846 8260B
---------	--------	------	------	------	-------------

MC15232-5 MW6D-ROX-102412

Benzene	0.55	0.50	0.24	ug/l	SW846 8260B
---------	------	------	------	------	-------------

MC15232-6 TB-102412-ST-R

No hits reported in this sample.

MC15232-7 TB-102412-HCL-R

No hits reported in this sample.

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

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW6A-ROX-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-1	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N69604.D	1	11/07/12	JP	n/a	n/a	MSN2618
Run #2							

Run #	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	120	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.73	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-1	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-1		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

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

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

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

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6A-ROX-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-1	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W6398.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
Run #2							

Run #	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	1.2	ug/l	
95-57-8	2-Chlorophenol	ND	5.3	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	0.39	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	0.39	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	2.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	1.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.3	ug/l	
95-48-7	2-Methylphenol	ND	11	0.64	ug/l	
	3&4-Methylphenol	ND	11	0.79	ug/l	
88-75-5	2-Nitrophenol	ND	11	0.50	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.9	ug/l	
87-86-5	Pentachlorophenol	ND	11	0.67	ug/l	
108-95-2	Phenol	ND	5.3	0.98	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	0.52	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	0.37	ug/l	
62-53-3	Aniline	ND	11	2.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	0.28	ug/l	
100-51-6	Benzyl Alcohol	ND	11	0.28	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	0.19	ug/l	
106-47-8	4-Chloroaniline	ND	11	0.67	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	0.40	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	0.30	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	0.31	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	0.23	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	0.22	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.94	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	0.38	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	0.25	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-1		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270C SW846 3510C		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	5.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.39	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	0.26	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	5.3	ug/l	
67-72-1	Hexachloroethane	ND	5.3	2.1	ug/l	
78-59-1	Isophorone	ND	5.3	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	11	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	11	0.27	ug/l	
100-01-6	4-Nitroaniline	ND	11	2.1	ug/l	
98-95-3	Nitrobenzene	ND	5.3	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	0.62	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	0.29	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.46	ug/l	
110-86-1	Pyridine	ND	11	5.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	28%		15-110%
118-79-6	2,4,6-Tribromophenol	88%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	66%		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 J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID: MW6A-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-1	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C BY SIM SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U10459.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
Run #2							

Run #	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	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.014	ug/l	
120-12-7	Anthracene	ND	0.11	0.019	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.062	ug/l	
218-01-9	Chrysene	ND	0.11	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.044	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.034	ug/l	
86-73-7	Fluorene	ND	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.055	ug/l	
85-01-8	Phenanthrene	ND	0.053	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.037	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	69%		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	60%		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-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-1	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18326.D	1	10/30/12	AP	10/26/12	OP30822	GBK670
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	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	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

4.1
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Report of Analysis

Client Sample ID: MW6B-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-2	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N69605.D	1	11/07/12	JP	n/a	n/a	MSN2618
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	1.5	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-2	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.1	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-2		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	89%		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	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-2	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W6399.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
Run #2							

Run #	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.2	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.38	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.38	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	10	0.61	ug/l	
	3&4-Methylphenol	ND	10	0.76	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.48	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	10	0.64	ug/l	
108-95-2	Phenol	ND	5.1	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.36	ug/l	
62-53-3	Aniline	ND	10	2.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	0.57	5.1	0.27	ug/l	J
100-51-6	Benzyl Alcohol	ND	10	0.26	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.18	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.64	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.29	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.22	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.21	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.90	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	0.79	5.1	0.36	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.1	0.24	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-2		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270C SW846 3510C		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.19	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.25	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	5.1	ug/l	
67-72-1	Hexachloroethane	ND	5.1	2.0	ug/l	
78-59-1	Isophorone	ND	5.1	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.23	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.0	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.24	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.28	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.44	ug/l	
110-86-1	Pyridine	ND	10	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		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	74%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	95%		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 J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW6B-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-2	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C BY SIM SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U10460.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
Run #2							

Run #	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.047	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	25%		15-110%
118-79-6	2,4,6-Tribromophenol	71%		15-110%
4165-60-0	Nitrobenzene-d5	67%		30-130%
321-60-8	2-Fluorobiphenyl	63%		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: MW6B-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-2	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18327.D	1	10/30/12	AP	10/26/12	OP30822	GBK670
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	0.012	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	121%		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

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Report of Analysis

Client Sample ID:	MW6B-ROX-102412EB	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-3	Date Received:	10/25/12
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N69602.D	1	11/07/12	JP	n/a	n/a	MSN2618
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-102412EB	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-3	Date Received:	10/25/12
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-102412EB		Date Sampled: 10/24/12
Lab Sample ID: MC15232-3		Date Received: 10/25/12
Matrix: AQ - Equipment Blank		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	86%		70-130%
460-00-4	4-Bromofluorobenzene	89%		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	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6B-ROX-102412EB	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-3	Date Received:	10/25/12
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W6400.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
Run #2 ^a	W6685.D	1	11/08/12	KR	10/29/12	OP30833	MSW306

Run #	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2	960 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.2	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.39	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.39	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	1.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	10	0.63	ug/l	
	3&4-Methylphenol	ND	10	0.78	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.49	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.9	ug/l	
87-86-5	Pentachlorophenol	ND	10	0.66	ug/l	
108-95-2	Phenol	ND	5.2	0.97	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.51	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.37	ug/l	
62-53-3	Aniline	ND	10	2.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.28	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.18	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.66	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.30	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.30	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.22	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.22	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.93	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.38	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.25	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-102412EB	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-3	Date Received:	10/25/12
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.39	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.26	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	5.2	ug/l	
67-72-1	Hexachloroethane	ND	5.2	2.1	ug/l	
78-59-1	Isophorone	ND	5.2	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.1	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.62	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.29	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.45	ug/l	
110-86-1	Pyridine	ND	10	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%	11% ^b	15-110%
4165-62-2	Phenol-d5	12% ^b	9% ^b	15-110%
118-79-6	2,4,6-Tribromophenol	60%	39%	15-110%
4165-60-0	Nitrobenzene-d5	33%	34%	30-130%
321-60-8	2-Fluorobiphenyl	36%	37%	30-130%
1718-51-0	Terphenyl-d14	92%	94%	30-130%

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

(a) Confirmation run for surrogate recoveries.

(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:	MW6B-ROX-102412EB	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-3	Date Received:	10/25/12
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U10461.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
Run #2 ^a	U10498.D	1	11/02/12	NS	10/29/12	OP30834	MSU560

Run #	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2	960 ml	1.0 ml

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.061	ug/l	
218-01-9	Chrysene	ND	0.10	0.076	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	16%	15%	15-110%
4165-62-2	Phenol-d5	12% ^b	12% ^b	15-110%
118-79-6	2,4,6-Tribromophenol	51%	47%	15-110%
4165-60-0	Nitrobenzene-d5	33%	34%	30-130%
321-60-8	2-Fluorobiphenyl	37%	37%	30-130%
1718-51-0	Terphenyl-d14	71%	69%	30-130%

(a) Confirmation run for surrogate recoveries.

(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: MW6B-ROX-102412EB	Date Sampled: 10/24/12
Lab Sample ID: MC15232-3	Date Received: 10/25/12
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18328.D	1	10/30/12	AP	10/26/12	OP30822	GBK670
Run #2							

Run #	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	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

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

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Report of Analysis

Client Sample ID:	MW6C-ROX-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-4	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N69606.D	1	11/07/12	JP	n/a	n/a	MSN2618
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.35	0.50	0.24	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-4	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-4		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	90%		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	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW6C-ROX-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-4	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W6401.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
Run #2							

Run #	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	1.2	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	0.41	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.38	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.38	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	10	0.62	ug/l	
	3&4-Methylphenol	ND	10	0.77	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.48	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	10	0.65	ug/l	
108-95-2	Phenol	ND	5.1	0.95	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.50	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.36	ug/l	
62-53-3	Aniline	ND	10	2.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	0.27	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	0.18	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.64	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	0.29	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	0.30	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	0.22	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.21	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.91	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	0.37	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	0.24	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-4		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270C SW846 3510C		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.1	0.19	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	0.25	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	5.1	ug/l	
67-72-1	Hexachloroethane	ND	5.1	2.0	ug/l	
78-59-1	Isophorone	ND	5.1	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.23	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.0	ug/l	
98-95-3	Nitrobenzene	ND	5.1	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	0.60	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	0.28	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.44	ug/l	
110-86-1	Pyridine	ND	10	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		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	72%		30-130%
321-60-8	2-Fluorobiphenyl	66%		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 J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW6C-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-4	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C BY SIM SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U10462.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.074	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.047	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.053	ug/l	
85-01-8	Phenanthrene	ND	0.051	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	27%		15-110%
118-79-6	2,4,6-Tribromophenol	68%		15-110%
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	68%		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: MW6C-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-4	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18329.D	1	10/30/12	AP	10/26/12	OP30822	GBK670
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	0.012	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	124%		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

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Report of Analysis

Client Sample ID:	MW6D-ROX-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-5	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N69607.D	1	11/07/12	JP	n/a	n/a	MSN2618
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	0.55	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-102412	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-5	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-5		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	89%		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	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW6D-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-5	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W6402.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
Run #2							

Run #	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	1.2	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.39	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.39	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	1.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	10	0.63	ug/l	
	3&4-Methylphenol	ND	10	0.78	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.49	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.9	ug/l	
87-86-5	Pentachlorophenol	ND	10	0.66	ug/l	
108-95-2	Phenol	ND	5.2	0.97	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.51	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.37	ug/l	
62-53-3	Aniline	ND	10	2.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.28	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.18	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.66	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.23	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.30	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.30	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.22	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.22	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.93	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.38	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.25	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-102412		Date Sampled: 10/24/12
Lab Sample ID: MC15232-5		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270C SW846 3510C		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
84-66-2	Diethyl phthalate	ND	5.2	0.20	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.39	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.26	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	5.2	ug/l	
67-72-1	Hexachloroethane	ND	5.2	2.1	ug/l	
78-59-1	Isophorone	ND	5.2	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.1	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.62	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.29	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.45	ug/l	
110-86-1	Pyridine	ND	10	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	76%		15-110%
4165-60-0	Nitrobenzene-d5	65%		30-130%
321-60-8	2-Fluorobiphenyl	61%		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 J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW6D-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-5	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C BY SIM SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U10463.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
Run #2							

Run #	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

BN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.025	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.061	ug/l	
218-01-9	Chrysene	ND	0.10	0.076	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.048	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.15	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	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	63%		15-110%
4165-60-0	Nitrobenzene-d5	60%		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: MW6D-ROX-102412	Date Sampled: 10/24/12
Lab Sample ID: MC15232-5	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18330.D	1	10/30/12	AP	10/26/12	OP30822	GBK670
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	0.012	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	113%		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

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Report of Analysis

Client Sample ID: TB-102412-ST-R	Date Sampled: 10/24/12
Lab Sample ID: MC15232-6	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18332.D	1	10/30/12	AP	10/26/12	OP30822	GBK670
Run #2							

Run #	Initial Volume	Final Volume
Run #1	37.2 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	0.014	0.012	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.014	0.0098	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	128%		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

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Report of Analysis

Client Sample ID: TB-102412-HCL-R	Date Sampled: 10/24/12
Lab Sample ID: MC15232-7	Date Received: 10/25/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N69608.D	1	11/07/12	JP	n/a	n/a	MSN2618
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-102412-HCL-R	Date Sampled:	10/24/12
Lab Sample ID:	MC15232-7	Date Received:	10/25/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-102412-HCL-R		Date Sampled: 10/24/12
Lab Sample ID: MC15232-7		Date Received: 10/25/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	89%		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	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC15232 Client: URS Immediate Client Services Action Required: No
 Date / Time Received: 10/25/2012 Delivery Method: _____ Client Service Action Required at Login: No
 Project: 900SOUTH 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: Infrared 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

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Internal Sample Tracking Chronicle

Shell Oil

Job No: MC15232

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

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Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC15232-1 Collected: 24-OCT-12 09:40 By: DMLR Received: 25-OCT-12 By: MW6A-ROX-102412						
MC15232-1	SW846 8011	30-OCT-12 05:17	AP	26-OCT-12 CC		V8011SL
MC15232-1	SW846 8270C	31-OCT-12 12:08	KR	29-OCT-12 FC		AB8270SL +
MC15232-1	SW846 8270C BY SIM	31-OCT-12 20:47	NS	29-OCT-12 FC		B8270SIMSL
MC15232-1	SW846 8260B	07-NOV-12 17:20	JP			V8260SL +
MC15232-2 Collected: 24-OCT-12 10:30 By: DMLR Received: 25-OCT-12 By: MW6B-ROX-102412						
MC15232-2	SW846 8011	30-OCT-12 05:42	AP	26-OCT-12 CC		V8011SL
MC15232-2	SW846 8270C	31-OCT-12 12:30	KR	29-OCT-12 FC		AB8270SL +
MC15232-2	SW846 8270C BY SIM	31-OCT-12 21:10	NS	29-OCT-12 FC		B8270SIMSL
MC15232-2	SW846 8260B	07-NOV-12 17:48	JP			V8260SL +
MC15232-3 Collected: 24-OCT-12 10:45 By: DMLR Received: 25-OCT-12 By: MW6B-ROX-102412EB						
MC15232-3	SW846 8011	30-OCT-12 06:07	AP	26-OCT-12 CC		V8011SL
MC15232-3	SW846 8270C	31-OCT-12 12:52	KR	29-OCT-12 FC		AB8270SL +
MC15232-3	SW846 8270C BY SIM	31-OCT-12 21:32	NS	29-OCT-12 FC		B8270SIMSL
MC15232-3	SW846 8270C BY SIM	02-NOV-12 10:03	NS	29-OCT-12 FC		B8270SIMSL
MC15232-3	SW846 8260B	07-NOV-12 16:23	JP			V8260SL +
MC15232-3	SW846 8270C	08-NOV-12 13:33	KR	29-OCT-12 FC		AB8270SL +
MC15232-4 Collected: 24-OCT-12 13:32 By: DMLR Received: 25-OCT-12 By: MW6C-ROX-102412						
MC15232-4	SW846 8011	30-OCT-12 06:31	AP	26-OCT-12 CC		V8011SL
MC15232-4	SW846 8270C	31-OCT-12 13:14	KR	29-OCT-12 FC		AB8270SL +
MC15232-4	SW846 8270C BY SIM	31-OCT-12 21:56	NS	29-OCT-12 FC		B8270SIMSL
MC15232-4	SW846 8260B	07-NOV-12 18:16	JP			V8260SL +
MC15232-5 Collected: 24-OCT-12 14:30 By: DMLR Received: 25-OCT-12 By: MW6D-ROX-102412						
MC15232-5	SW846 8011	30-OCT-12 06:56	AP	26-OCT-12 CC		V8011SL
MC15232-5	SW846 8270C	31-OCT-12 13:36	KR	29-OCT-12 FC		AB8270SL +
MC15232-5	SW846 8270C BY SIM	31-OCT-12 22:18	NS	29-OCT-12 FC		B8270SIMSL

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC15232

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

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Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC15232-5	SW846 8260B	07-NOV-12 18:44	JP			V8260SL+
MC15232-6 Collected: 24-OCT-12 00:00 By: DMLR Received: 25-OCT-12 By: TB-102412-ST-R						
MC15232-6	SW846 8011	30-OCT-12 07:45	AP	26-OCT-12	CC	V8011SL
MC15232-7 Collected: 24-OCT-12 00:00 By: DMLR Received: 25-OCT-12 By: TB-102412-HCL-R						
MC15232-7	SW846 8260B	07-NOV-12 19:13	JP			V8260SL+

SGS Accutest Internal Chain of Custody

Job Number: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
Received: 10/25/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC15232-1.1	Walk In Ref #22	Michael Rolo	10/29/12 07:48	Retrieve from Storage
MC15232-1.1	Michael Rolo		10/30/12 18:01	Depleted
MC15232-1.2	Walk In Ref #22	Michael Rolo	10/30/12 11:15	Retrieve from Storage
MC15232-1.2	Michael Rolo	Walk In Ref #22	10/30/12 15:24	Return to Storage
MC15232-1.2	Scott Parsick		01/17/13 13:08	Disposed
MC15232-1.3	VOC Ref #3	Jugal Patel	11/06/12 12:42	Retrieve from Storage
MC15232-1.3	Jugal Patel	GCMSN	11/06/12 12:43	Load on Instrument
MC15232-1.3	GCMSN	Jugal Patel	11/07/12 10:45	Unload from Instrument
MC15232-1.3	Jugal Patel	VOC Ref #3	11/07/12 10:45	Return to Storage
MC15232-1.3	Scott Parsick		01/17/13 13:08	Disposed
MC15232-1.6	VOC Ref #3	Nick Krasinski	10/26/12 20:07	Retrieve from Storage
MC15232-1.6	Nick Krasinski		10/26/12 20:07	Depleted
MC15232-2.1	Walk In Ref #22	Michael Rolo	10/29/12 07:48	Retrieve from Storage
MC15232-2.1	Michael Rolo		10/30/12 18:01	Depleted
MC15232-2.3	VOC Ref #3	Jugal Patel	11/06/12 12:42	Retrieve from Storage
MC15232-2.3	Jugal Patel	GCMSN	11/06/12 12:43	Load on Instrument
MC15232-2.3	GCMSN	Jugal Patel	11/07/12 10:45	Unload from Instrument
MC15232-2.3	Jugal Patel	VOC Ref #3	11/07/12 10:45	Return to Storage
MC15232-2.3	Scott Parsick		01/17/13 13:08	Disposed
MC15232-2.4	VOC Ref #3	Jugal Patel	11/07/12 13:21	Retrieve from Storage
MC15232-2.4	Jugal Patel	GCMSN	11/07/12 13:22	Load on Instrument
MC15232-2.4	GCMSN	Jugal Patel	11/08/12 12:29	Unload from Instrument
MC15232-2.4	Jugal Patel	VOC Ref #3	11/08/12 12:29	Return to Storage
MC15232-2.4	Scott Parsick		01/17/13 13:08	Disposed
MC15232-2.6	VOC Ref #3	Nick Krasinski	10/26/12 20:07	Retrieve from Storage
MC15232-2.6	Nick Krasinski		10/26/12 20:07	Depleted
MC15232-3.2	Walk In Ref #22	Michael Rolo	10/29/12 07:48	Retrieve from Storage
MC15232-3.2	Michael Rolo		10/30/12 18:01	Depleted
MC15232-3.3	VOC Ref #3	Jugal Patel	11/06/12 12:42	Retrieve from Storage
MC15232-3.3	Jugal Patel	GCMSN	11/06/12 12:43	Load on Instrument
MC15232-3.3	GCMSN	Jugal Patel	11/07/12 10:45	Unload from Instrument
MC15232-3.3	Jugal Patel	VOC Ref #3	11/07/12 10:45	Return to Storage
MC15232-3.3	Scott Parsick		01/17/13 13:08	Disposed
MC15232-3.5	VOC Ref #3	Nick Krasinski	10/26/12 20:07	Retrieve from Storage

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SGS Accutest Internal Chain of Custody

Job Number: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
Received: 10/25/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC15232-3.5	Nick Krasinski		10/26/12 20:07	Depleted
MC15232-4.1	Walk In Ref #22	Michael Rolo	10/29/12 07:48	Retrieve from Storage
MC15232-4.1	Michael Rolo		10/30/12 18:01	Depleted
MC15232-4.3	VOC Ref #3	Jugal Patel	11/06/12 12:42	Retrieve from Storage
MC15232-4.3	Jugal Patel	GCMSN	11/06/12 12:43	Load on Instrument
MC15232-4.3	GCMSN	Jugal Patel	11/07/12 10:45	Unload from Instrument
MC15232-4.3	Jugal Patel	VOC Ref #3	11/07/12 10:45	Return to Storage
MC15232-4.3	Scott Parsick		01/17/13 13:08	Disposed
MC15232-4.4	VOC Ref #3	Jugal Patel	11/07/12 13:21	Retrieve from Storage
MC15232-4.4	Jugal Patel	GCMSN	11/07/12 13:22	Load on Instrument
MC15232-4.4	GCMSN	Jugal Patel	11/08/12 12:29	Unload from Instrument
MC15232-4.4	Jugal Patel	VOC Ref #3	11/08/12 12:29	Return to Storage
MC15232-4.4	Scott Parsick		01/17/13 13:08	Disposed
MC15232-4.6	VOC Ref #3	Nick Krasinski	10/26/12 20:07	Retrieve from Storage
MC15232-4.6	Nick Krasinski		10/26/12 20:07	Depleted
MC15232-5.1	Walk In Ref #22	Michael Rolo	10/29/12 07:48	Retrieve from Storage
MC15232-5.1	Michael Rolo		10/30/12 18:01	Depleted
MC15232-5.3	VOC Ref #3	Jugal Patel	11/06/12 12:42	Retrieve from Storage
MC15232-5.3	Jugal Patel	GCMSN	11/06/12 12:43	Load on Instrument
MC15232-5.3	GCMSN	Jugal Patel	11/07/12 10:45	Unload from Instrument
MC15232-5.3	Jugal Patel	VOC Ref #3	11/07/12 10:45	Return to Storage
MC15232-5.3	Scott Parsick		01/17/13 13:08	Disposed
MC15232-5.4	VOC Ref #3	Jugal Patel	11/07/12 13:21	Retrieve from Storage
MC15232-5.4	Jugal Patel	GCMSN	11/07/12 13:22	Load on Instrument
MC15232-5.4	GCMSN	Jugal Patel	11/08/12 12:29	Unload from Instrument
MC15232-5.4	Jugal Patel	VOC Ref #3	11/08/12 12:29	Return to Storage
MC15232-5.4	Scott Parsick		01/17/13 13:08	Disposed
MC15232-5.5	VOC Ref #3	Nick Krasinski	10/26/12 20:07	Retrieve from Storage
MC15232-5.5	Nick Krasinski		10/26/12 20:07	Depleted
MC15232-6.1	VOC Ref #3	Nick Krasinski	10/26/12 20:07	Retrieve from Storage
MC15232-6.1	Nick Krasinski		10/26/12 20:07	Depleted
MC15232-7.1	VOC Ref #3	Jugal Patel	11/06/12 12:42	Retrieve from Storage
MC15232-7.1	Jugal Patel	GCMSN	11/06/12 12:43	Load on Instrument
MC15232-7.1	GCMSN	Jugal Patel	11/07/12 10:45	Unload from Instrument

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SGS Accutest Internal Chain of Custody

Job Number: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
Received: 10/25/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC15232-7.1	Jugal Patel	VOC Ref #3	11/07/12 10:45	Return to Storage
MC15232-7.1	Scott Parsick		01/17/13 13:08	Disposed
MC15232-7.2	VOC Ref #3	Jugal Patel	11/07/12 13:21	Retrieve from Storage
MC15232-7.2	Jugal Patel	GCMSN	11/07/12 13:22	Load on Instrument
MC15232-7.2	GCMSN	Jugal Patel	11/08/12 12:29	Unload from Instrument
MC15232-7.2	Jugal Patel	VOC Ref #3	11/08/12 12:29	Return to Storage
MC15232-7.2	Scott Parsick		01/17/13 13:08	Disposed

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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: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-MB	N69600.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

6.1.1
6

Method Blank Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-MB	N69600.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

6.1.1
6

Method Blank Summary

Job Number: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-MB	N69600.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	86%	70-130%
2037-26-5	Toluene-D8	85%	70-130%
460-00-4	4-Bromofluorobenzene	88%	70-130%

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

6.1.1
6

Method Blank Summary

Job Number: MC15232

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-MB1	N69654.D	1	11/08/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15299-2MS, MC15299-2MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

6.1.2
6

Method Blank Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-MB1	N69654.D	1	11/08/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15299-2MS, MC15299-2MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-MB1	N69654.D	1	11/08/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15299-2MS, MC15299-2MSD

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	83%	70-130%
2037-26-5	Toluene-D8	84%	70-130%
460-00-4	4-Bromofluorobenzene	85%	70-130%

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

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-BS	N69597.D	1	11/07/12	JP	n/a	n/a	MSN2618
MSN2618-BSD	N69598.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	41.3	83	40.2	80	3	70-130/25
107-02-8	Acrolein	250	171	68* a	160	64* a	7	70-130/25
107-13-1	Acrylonitrile	50	264	528* b	260	520* b	2	70-130/25
71-43-2	Benzene	50	53.8	108	51.7	103	4	70-130/25
108-86-1	Bromobenzene	50	49.8	100	48.1	96	3	70-130/25
74-97-5	Bromochloromethane	50	54.8	110	53.1	106	3	70-130/25
75-27-4	Bromodichloromethane	50	53.7	107	51.9	104	3	70-130/25
75-25-2	Bromoform	50	43.4	87	43.2	86	0	70-130/25
74-83-9	Bromomethane	50	65.0	130	63.2	126	3	70-130/25
78-93-3	2-Butanone (MEK)	50	47.7	95	46.2	92	3	70-130/25
104-51-8	n-Butylbenzene	50	56.5	113	53.9	108	5	70-130/25
135-98-8	sec-Butylbenzene	50	56.4	113	54.1	108	4	70-130/25
98-06-6	tert-Butylbenzene	50	53.1	106	50.3	101	5	70-130/25
75-15-0	Carbon disulfide	50	62.4	125	59.8	120	4	70-130/25
56-23-5	Carbon tetrachloride	50	47.1	94	44.7	89	5	70-130/25
108-90-7	Chlorobenzene	50	54.9	110	53.0	106	4	70-130/25
75-00-3	Chloroethane	50	59.7	119	56.8	114	5	70-130/25
110-75-8	2-Chloroethyl vinyl ether	50	55.2	110	53.9	108	2	70-130/25
67-66-3	Chloroform	50	54.2	108	52.0	104	4	70-130/25
74-87-3	Chloromethane	50	56.6	113	55.9	112	1	70-130/25
95-49-8	o-Chlorotoluene	50	54.0	108	51.8	104	4	70-130/25
106-43-4	p-Chlorotoluene	50	57.1	114	54.7	109	4	70-130/25
124-48-1	Dibromochloromethane	50	47.1	94	46.4	93	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	54.2	108	52.6	105	3	70-130/25
541-73-1	1,3-Dichlorobenzene	50	54.8	110	52.7	105	4	70-130/25
106-46-7	1,4-Dichlorobenzene	50	51.7	103	49.3	99	5	70-130/25
75-71-8	Dichlorodifluoromethane	50	56.9	114	53.8	108	6	70-130/25
75-34-3	1,1-Dichloroethane	50	58.6	117	56.0	112	5	70-130/25
107-06-2	1,2-Dichloroethane	50	48.8	98	48.6	97	0	70-130/25
75-35-4	1,1-Dichloroethene	50	55.5	111	53.0	106	5	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	54.8	110	52.7	105	4	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	55.7	111	53.2	106	5	70-130/25
78-87-5	1,2-Dichloropropane	50	55.2	110	53.9	108	2	70-130/25
142-28-9	1,3-Dichloropropane	50	50.7	101	49.3	99	3	70-130/25
594-20-7	2,2-Dichloropropane	50	50.6	101	48.0	96	5	70-130/25
563-58-6	1,1-Dichloropropene	50	54.1	108	52.3	105	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-BS	N69597.D	1	11/07/12	JP	n/a	n/a	MSN2618
MSN2618-BSD	N69598.D	1	11/07/12	JP	n/a	n/a	MSN2618

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

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	54.8	110	53.5	107	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	49.5	99	48.9	98	1	70-130/25
123-91-1	1,4-Dioxane	250	236	94	221	88	7	70-130/25
97-63-2	Ethyl methacrylate	50	49.4	99	49.4	99	0	77-137/25
100-41-4	Ethylbenzene	50	51.1	102	49.3	99	4	70-130/25
87-68-3	Hexachlorobutadiene	50	52.7	105	50.6	101	4	70-130/25
591-78-6	2-Hexanone	50	40.2	80	39.6	79	2	70-130/25
98-82-8	Isopropylbenzene	50	54.6	109	52.1	104	5	70-130/25
99-87-6	p-Isopropyltoluene	50	54.2	108	52.2	104	4	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	40.4	81	40.5	81	0	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	38.7	77	38.9	78	1	70-130/25
74-95-3	Methylene bromide	50	51.0	102	50.7	101	1	70-130/25
75-09-2	Methylene chloride	50	57.0	114	55.2	110	3	70-130/25
91-20-3	Naphthalene	50	49.9	100	49.0	98	2	70-130/25
103-65-1	n-Propylbenzene	50	55.6	111	53.3	107	4	70-130/25
100-42-5	Styrene	50	51.5	103	49.9	100	3	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	52.5	105	50.3	101	4	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.0	98	48.3	97	1	70-130/25
127-18-4	Tetrachloroethene	50	50.2	100	47.8	96	5	70-130/25
108-88-3	Toluene	50	54.1	108	51.5	103	5	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	53.9	108	52.8	106	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	54.6	109	53.0	106	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	54.5	109	52.1	104	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.3	105	50.6	101	3	70-130/25
79-01-6	Trichloroethene	50	50.2	100	48.6	97	3	70-130/25
75-69-4	Trichlorofluoromethane	50	52.3	105	49.5	99	6	70-130/25
96-18-4	1,2,3-Trichloropropane	50	51.7	103	51.1	102	1	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	49.8	100	48.0	96	4	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	49.2	98	47.6	95	3	70-130/25
108-05-4	Vinyl Acetate	50	52.6	105	51.6	103	2	70-130/25
75-01-4	Vinyl chloride	50	54.9	110	52.4	105	5	70-130/25
	m,p-Xylene	100	106	106	102	102	4	70-130/25
95-47-6	o-Xylene	50	54.9	110	53.4	107	3	70-130/25
1330-20-7	Xylene (total)	150	161	107	155	103	4	70-130/25

* = Outside of Control Limits.

6.2.1
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Blank Spike/Blank Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN2618-BS	N69597.D	1	11/07/12	JP	n/a	n/a	MSN2618
MSN2618-BSD	N69598.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	87%	86%	70-130%
2037-26-5	Toluene-D8	87%	87%	70-130%
460-00-4	4-Bromofluorobenzene	84%	83%	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: MC15232

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC15299-2MS	N69672.D	5	11/09/12	JP	n/a	n/a	MSN2618
MC15299-2MSD	N69673.D	5	11/09/12	JP	n/a	n/a	MSN2618
MC15299-2	N69617.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Compound	MC15299-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	250	212	85	250	206	82	3	70-130/30
107-02-8	Acrolein	ND	1250	772	62* a	1250	770	62* a	0	70-130/30
107-13-1	Acrylonitrile	ND	250	1330	532* b	250	1280	512* b	4	70-130/30
71-43-2	Benzene	ND	250	265	106	250	256	102	3	70-130/30
108-86-1	Bromobenzene	ND	250	241	96	250	240	96	0	70-130/30
74-97-5	Bromochloromethane	ND	250	261	104	250	251	100	4	70-130/30
75-27-4	Bromodichloromethane	ND	250	261	104	250	255	102	2	70-130/30
75-25-2	Bromoform	ND	250	213	85	250	213	85	0	70-130/30
74-83-9	Bromomethane	ND	250	192	77	250	254	102	28	70-130/30
78-93-3	2-Butanone (MEK)	ND	250	209	84	250	215	86	3	70-130/30
104-51-8	n-Butylbenzene	ND	250	254	102	250	255	102	0	70-130/30
135-98-8	sec-Butylbenzene	ND	250	260	104	250	260	104	0	70-130/30
98-06-6	tert-Butylbenzene	ND	250	249	100	250	245	98	2	70-130/30
75-15-0	Carbon disulfide	ND	250	304	122	250	293	117	4	70-130/30
56-23-5	Carbon tetrachloride	ND	250	212	85	250	210	84	1	70-130/30
108-90-7	Chlorobenzene	ND	250	271	108	250	263	105	3	70-130/30
75-00-3	Chloroethane	ND	250	291	116	250	281	112	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND	250	273	109	250	269	108	1	70-130/30
67-66-3	Chloroform	ND	250	259	104	250	254	102	2	70-130/30
74-87-3	Chloromethane	ND	250	216	86	250	213	85	1	70-130/30
95-49-8	o-Chlorotoluene	ND	250	261	104	250	260	104	0	70-130/30
106-43-4	p-Chlorotoluene	ND	250	272	109	250	272	109	0	70-130/30
124-48-1	Dibromochloromethane	ND	250	233	93	250	230	92	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND	250	262	105	250	264	106	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND	250	265	106	250	263	105	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND	250	245	98	250	247	99	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND	250	229	92	250	220	88	4	70-130/30
75-34-3	1,1-Dichloroethane	0.64	250	281	112	250	277	111	1	70-130/30
107-06-2	1,2-Dichloroethane	ND	250	241	96	250	237	95	2	70-130/30
75-35-4	1,1-Dichloroethene	ND	250	262	105	250	257	103	2	70-130/30
156-59-2	cis-1,2-Dichloroethene	244	250	482	95	250	470	90	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	3.5	250	272	107	250	261	103	4	70-130/30
78-87-5	1,2-Dichloropropane	ND	250	273	109	250	269	108	1	70-130/30
142-28-9	1,3-Dichloropropane	ND	250	252	101	250	246	98	2	70-130/30
594-20-7	2,2-Dichloropropane	ND	250	203	81	250	195	78	4	70-130/30
563-58-6	1,1-Dichloropropene	ND	250	261	104	250	250	100	4	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC15299-2MS	N69672.D	5	11/09/12	JP	n/a	n/a	MSN2618
MC15299-2MSD	N69673.D	5	11/09/12	JP	n/a	n/a	MSN2618
MC15299-2	N69617.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Compound	MC15299-2 ug/l	Spike Q 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	257	103	250	251	100	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND	250	228	91	250	229	92	0	70-130/30
123-91-1	1,4-Dioxane	ND	1250	1160	93	1250	1100	88	5	70-130/30
97-63-2	Ethyl methacrylate	ND	250	242	97	250	239	96	1	72-139/30
100-41-4	Ethylbenzene	ND	250	251	100	250	244	98	3	70-130/30
87-68-3	Hexachlorobutadiene	ND	250	232	93	250	239	96	3	70-130/30
591-78-6	2-Hexanone	ND	250	195	78	250	197	79	1	70-130/30
98-82-8	Isopropylbenzene	ND	250	261	104	250	257	103	2	70-130/30
99-87-6	p-Isopropyltoluene	ND	250	252	101	250	250	100	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	191	76	250	189	76	1	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	193	77	250	189	76	2	70-130/30
74-95-3	Methylene bromide	ND	250	252	101	250	249	100	1	70-130/30
75-09-2	Methylene chloride	ND	250	275	110	250	265	106	4	70-130/30
91-20-3	Naphthalene	ND	250	229	92	250	242	97	6	70-130/30
103-65-1	n-Propylbenzene	ND	250	264	106	250	262	105	1	70-130/30
100-42-5	Styrene	ND	250	247	99	250	242	97	2	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	258	103	250	251	100	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	245	98	250	241	96	2	70-130/30
127-18-4	Tetrachloroethene	ND	250	241	96	250	234	94	3	70-130/30
108-88-3	Toluene	ND	250	264	106	250	256	102	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND	250	250	100	250	260	104	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND	250	250	100	250	256	102	2	70-130/30
71-55-6	1,1,1-Trichloroethane	ND	250	255	102	250	251	100	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND	250	254	102	250	250	100	2	70-130/30
79-01-6	Trichloroethene	ND	250	245	98	250	239	96	2	70-130/30
75-69-4	Trichlorofluoromethane	ND	250	233	93	250	226	90	3	70-130/30
96-18-4	1,2,3-Trichloropropane	ND	250	252	101	250	255	102	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND	250	237	95	250	236	94	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND	250	236	94	250	233	93	1	70-130/30
108-05-4	Vinyl Acetate	ND	250	255	102	250	252	101	1	70-130/30
75-01-4	Vinyl chloride	193	250	397	82	250	388	78	2	70-130/30
	m,p-Xylene	ND	500	520	104	500	503	101	3	70-130/30
95-47-6	o-Xylene	ND	250	272	109	250	265	106	3	70-130/30
1330-20-7	Xylene (total)	ND	750	792	106	750	768	102	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC15299-2MS	N69672.D	5	11/09/12	JP	n/a	n/a	MSN2618
MC15299-2MSD	N69673.D	5	11/09/12	JP	n/a	n/a	MSN2618
MC15299-2	N69617.D	1	11/07/12	JP	n/a	n/a	MSN2618

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-7

CAS No.	Surrogate Recoveries	MS	MSD	MC15299-2	Limits
1868-53-7	Dibromofluoromethane	85%	84%	85%	70-130%
2037-26-5	Toluene-D8	86%	86%	85%	70-130%
460-00-4	4-Bromofluorobenzene	81%	82%	87%	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: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSN2618-CC2591	Injection Date:	11/07/12
Lab File ID:	N69596.D	Injection Time:	13:34
Instrument ID:	GCMSN	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4		IS 5	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	307330	9.01	412623	9.88	190966	13.14	214512	15.70	80959	6.56
Upper Limit ^a	614660	9.51	825246	10.38	381932	13.64	429024	16.20	161918	7.06
Lower Limit ^b	153665	8.51	206312	9.38	95483	12.64	107256	15.20	40480	6.06

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
MSN2618-BS	307627	9.01	412398	9.88	191433	13.14	213491	15.70	81271	6.56
MSN2618-BSD	311006	9.01	414387	9.88	192288	13.14	216233	15.70	96300	6.56
MSN2618-MB	306780	9.01	410498	9.88	185453	13.14	191068	15.70	86282	6.56
ZZZZZZ	306178	9.01	406434	9.88	185324	13.14	187241	15.70	77280	6.56
MC15232-3	302925	9.01	406305	9.88	185814	13.14	185894	15.70	78637	6.56
ZZZZZZ	302473	9.01	405720	9.88	185310	13.14	189834	15.70	74543	6.56
MC15232-1	274160	9.01	364979	9.88	164699	13.14	165260	15.70	61008	6.56
MC15232-2	293663	9.01	391255	9.88	178669	13.14	181827	15.70	66357	6.56
MC15232-4	297067	9.01	395856	9.88	178630	13.14	180548	15.70	66721	6.56
MC15232-5	289781	9.01	391901	9.88	178503	13.14	180415	15.70	67780	6.56
MC15232-7	295144	9.01	395539	9.88	181533	13.14	188057	15.70	85321	6.56
ZZZZZZ	296591	9.01	397199	9.88	180050	13.14	177924	15.70	68356	6.56
ZZZZZZ	292029	9.01	396574	9.88	183136	13.14	183288	15.70	75125	6.56
ZZZZZZ	284058	9.01	381997	9.88	171926	13.14	172471	15.70	72210	6.56
ZZZZZZ	294652	9.01	393935	9.88	177122	13.14	175604	15.70	69028	6.56
ZZZZZZ	295208	9.01	390989	9.88	175298	13.14	174878	15.70	63425	6.57
ZZZZZZ	296324	9.01	392186	9.88	175449	13.14	171777	15.70	67310	6.56
ZZZZZZ	292507	9.01	386909	9.88	173002	13.14	174435	15.70	63195	6.57
ZZZZZZ	292050	9.01	388183	9.88	173788	13.14	171841	15.70	64888	6.56
MC15299-2	294609	9.01	392157	9.88	175544	13.14	176339	15.70	64919	6.56
ZZZZZZ	295223	9.01	395511	9.88	177484	13.14	176233	15.70	66734	6.56

- 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.

6.4.1
6

Volatile Internal Standard Area Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSN2620-CC2591	Injection Date:	11/08/12
Lab File ID:	N69650.D	Injection Time:	15:05
Instrument ID:	GCMSN	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4		IS 5	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	330534	9.01	436471	9.88	198365	13.14	224427	15.70	94352	6.56
Upper Limit ^a	661068	9.51	872942	10.38	396730	13.64	448854	16.20	188704	7.06
Lower Limit ^b	165267	8.51	218236	9.38	99183	12.64	112214	15.20	47176	6.06

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
MSN2620-BS	328894	9.01	431877	9.88	201638	13.14	220301	15.70	86897	6.56
MSN2618-BS1	328894	9.01	431877	9.88	201638	13.14	220301	15.70	86897	6.56
MSN2620-BSD	330663	9.01	434446	9.88	194291	13.14	222253	15.70	99385	6.56
MSN2618-BSD1	330663	9.01	434446	9.88	194291	13.14	222253	15.70	99385	6.56
MSN2620-MB	321501	9.01	423060	9.88	187153	13.14	200805	15.70	82205	6.57
MSN2618-MB1	321501	9.01	423060	9.88	187153	13.14	200805	15.70	82205	6.57
ZZZZZZ	315922	9.01	412788	9.88	183345	13.14	187354	15.70	75695	6.57
ZZZZZZ	314031	9.01	409583	9.88	181840	13.14	189482	15.70	79486	6.56
ZZZZZZ	310178	9.01	405863	9.88	180257	13.14	181504	15.70	72273	6.57
ZZZZZZ	306185	9.01	402104	9.88	180069	13.14	182367	15.70	76821	6.57
ZZZZZZ	300337	9.01	400093	9.88	177069	13.14	176122	15.70	80002	6.57
ZZZZZZ	299814	9.01	398947	9.88	177691	13.14	189210	15.70	72679	6.56
ZZZZZZ	300874	9.01	400018	9.88	177366	13.14	180276	15.70	77918	6.56
ZZZZZZ	273258	9.01	363613	9.88	163618	13.14	170267	15.70	74160	6.56
ZZZZZZ	289784	9.01	388239	9.88	173451	13.14	181797	15.70	77436	6.56
MC15301-3	300244	9.01	395735	9.88	177685	13.14	186275	15.70	72370	6.57
ZZZZZZ	296133	9.01	395969	9.88	176117	13.14	183317	15.70	73174	6.56
ZZZZZZ	295167	9.01	390878	9.88	175371	13.14	181301	15.70	70935	6.57
MC15299-2MS	301321	9.01	396891	9.88	181915	13.14	205407	15.70	79582	6.56
MC15299-2MSD	303438	9.01	399477	9.88	183104	13.14	202883	15.70	81048	6.56
MC15301-3MS	302753	9.01	402283	9.88	185632	13.14	209669	15.70	82509	6.56
MC15301-3MSD	307130	9.01	410550	9.88	193929	13.14	211322	15.70	87062	6.56

- 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.

6.4.2
6

Volatile Surrogate Recovery Summary

Job Number: MC15232

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Method: SW846 8260B

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC15232-1	N69604.D	86	86	90
MC15232-2	N69605.D	86	87	89
MC15232-3	N69602.D	86	86	89
MC15232-4	N69606.D	86	87	90
MC15232-5	N69607.D	87	87	89
MC15232-7	N69608.D	87	87	89
MC15299-2MS	N69672.D	85	86	81
MC15299-2MSD	N69673.D	84	86	82
MSN2618-BS	N69597.D	87	87	84
MSN2618-BSD	N69598.D	86	87	83
MSN2618-MB	N69600.D	86	85	88
MSN2618-MB1	N69654.D	83	84	85

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

6.5.1
6

GC/MS Semi-volatiles**QC Data Summaries****7**

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: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30833-MB	W6389.D	1	10/31/12	KR	10/29/12	OP30833	MSW289

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.2	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.38	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.37	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	1.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	10	0.60	ug/l	
	3&4-Methylphenol	ND	10	0.75	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.47	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	10	0.64	ug/l	
108-95-2	Phenol	ND	5.0	0.93	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.35	ug/l	
62-53-3	Aniline	ND	10	2.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.27	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.26	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.18	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.28	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.21	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.21	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.89	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.21	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.36	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.24	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.19	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.25	ug/l	

7.1.1
7

Method Blank Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30833-MB	W6389.D	1	10/31/12	KR	10/29/12	OP30833	MSW289

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.23	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.25	ug/l	
100-01-6	4-Nitroaniline	ND	10	2.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.24	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.59	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.28	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.44	ug/l	
110-86-1	Pyridine	ND	10	5.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	37%	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	62%	30-130%
321-60-8	2-Fluorobiphenyl	57%	30-130%
1718-51-0	Terphenyl-d14	104%	30-130%

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

7.1.1
7

Method Blank Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30834-MB	U10451.D	1	10/31/12	NS	10/29/12	OP30834	MSU560

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	ug/l	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	33%	15-110%
4165-62-2	Phenol-d5	23%	15-110%
118-79-6	2,4,6-Tribromophenol	63%	15-110%
4165-60-0	Nitrobenzene-d5	59%	30-130%
321-60-8	2-Fluorobiphenyl	54%	30-130%
1718-51-0	Terphenyl-d14	69%	30-130%

7.1.2
7

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30833-BS	W6390.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
OP30833-BSD	W6391.D	1	10/31/12	KR	10/29/12	OP30833	MSW289

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	100	32.1	32	35.6	36	10	30-130/20
95-57-8	2-Chlorophenol	100	70.6	71	72.9	73	3	30-130/20
59-50-7	4-Chloro-3-methyl phenol	100	72.8	73	75.2	75	3	30-130/20
120-83-2	2,4-Dichlorophenol	100	75.8	76	77.8	78	3	30-130/20
105-67-9	2,4-Dimethylphenol	100	69.0	69	73.6	74	6	30-130/20
51-28-5	2,4-Dinitrophenol	100	72.0	72	74.5	75	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	100	78.0	78	80.7	81	3	30-130/20
95-48-7	2-Methylphenol	100	61.4	61	64.3	64	5	30-130/20
	3&4-Methylphenol	200	117	59	123	62	5	30-130/20
88-75-5	2-Nitrophenol	100	78.3	78	81.0	81	3	30-130/20
100-02-7	4-Nitrophenol	100	44.0	44	46.4	46	5	30-130/20
87-86-5	Pentachlorophenol	100	76.7	77	76.9	77	0	30-130/20
108-95-2	Phenol	100	32.7	33	34.6	35	6	30-130/20
95-95-4	2,4,5-Trichlorophenol	100	80.4	80	80.1	80	0	30-130/20
88-06-2	2,4,6-Trichlorophenol	100	83.0	83	83.4	83	0	30-130/20
62-53-3	Aniline	50	21.1	42	21.9	44	4	40-140/20
101-55-3	4-Bromophenyl phenyl ether	50	37.9	76	38.2	76	1	40-140/20
85-68-7	Butyl benzyl phthalate	50	46.8	94	46.7	93	0	40-140/20
100-51-6	Benzyl Alcohol	50	31.5	63	32.6	65	3	40-140/20
91-58-7	2-Chloronaphthalene	100	76.3	76	78.4	78	3	40-140/20
106-47-8	4-Chloroaniline	50	28.7	57	28.3	57	1	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	50	34.1	68	35.3	71	3	40-140/20
111-44-4	bis(2-Chloroethyl)ether	50	39.0	78	40.4	81	4	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	50	44.4	89	45.9	92	3	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	50	36.8	74	36.8	74	0	40-140/20
122-66-7	1,2-Diphenylhydrazine	50	37.7	75	38.9	78	3	40-140/20
121-14-2	2,4-Dinitrotoluene	100	84.4	84	86.2	86	2	40-140/20
606-20-2	2,6-Dinitrotoluene	100	83.0	83	85.2	85	3	40-140/20
91-94-1	3,3'-Dichlorobenzidine	50	30.1	60	31.1	62	3	40-140/20
132-64-9	Dibenzofuran	50	35.9	72	36.4	73	1	40-140/20
84-74-2	Di-n-butyl phthalate	50	38.5	77	38.7	77	1	40-140/20
117-84-0	Di-n-octyl phthalate	50	59.3	119	57.5	115	3	40-140/20
84-66-2	Diethyl phthalate	50	39.8	80	39.7	79	0	40-140/20
131-11-3	Dimethyl phthalate	50	39.5	79	39.8	80	1	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	47.0	94	46.6	93	1	40-140/20
118-74-1	Hexachlorobenzene	50	91.0	91	90.6	91	0	40-140/20

* = Outside of Control Limits.

7.2.1
7

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30833-BS	W6390.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
OP30833-BSD	W6391.D	1	10/31/12	KR	10/29/12	OP30833	MSW289

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	50	65.9	132	66.8	134	1	40-140/20
67-72-1	Hexachloroethane	50	54.4	109	57.0	114	5	40-140/20
78-59-1	Isophorone	100	79.1	79	82.4	82	4	40-140/20
88-74-4	2-Nitroaniline	50	39.2	78	40.0	80	2	40-140/20
99-09-2	3-Nitroaniline	50	29.5	59	29.4	59	0	40-140/20
100-01-6	4-Nitroaniline	50	35.9	72	36.4	73	1	40-140/20
98-95-3	Nitrobenzene	100	75.7	76	79.0	79	4	40-140/20
62-75-9	n-Nitrosodimethylamine	50	25.6	51	27.5	55	7	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	50	43.2	86	45.5	91	5	40-140/20
86-30-6	N-Nitrosodiphenylamine	50	38.7	77	38.7	77	0	40-140/20
110-86-1	Pyridine	50	21.1	42	22.4	45	6	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	49%	50%	15-110%
4165-62-2	Phenol-d5	33%	35%	15-110%
118-79-6	2,4,6-Tribromophenol	93%	92%	15-110%
4165-60-0	Nitrobenzene-d5	79%	79%	30-130%
321-60-8	2-Fluorobiphenyl	73%	73%	30-130%
1718-51-0	Terphenyl-d14	104%	102%	30-130%

* = Outside of Control Limits.

7.2.1
7

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30834-BS	U10452.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
OP30834-BSD	U10453.D	1	10/31/12	NS	10/29/12	OP30834	MSU560

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	33.9	68	34.7	69	2	40-140/30
208-96-8	Acenaphthylene	50	26.7	53	27.5	55	3	40-140/30
120-12-7	Anthracene	50	33.4	67	33.8	68	1	40-140/30
56-55-3	Benzo(a)anthracene	50	43.5	87	43.9	88	1	40-140/30
50-32-8	Benzo(a)pyrene	50	28.9	58	29.2	58	1	40-140/30
205-99-2	Benzo(b)fluoranthene	50	32.0	64	33.0	66	3	40-140/30
191-24-2	Benzo(g,h,i)perylene	50	31.7	63	32.3	65	2	40-140/30
207-08-9	Benzo(k)fluoranthene	50	33.3	67	32.7	65	2	40-140/30
218-01-9	Chrysene	50	36.5	73	37.0	74	1	40-140/30
53-70-3	Dibenzo(a,h)anthracene	50	33.0	66	33.7	67	2	40-140/30
206-44-0	Fluoranthene	50	33.7	67	34.4	69	2	40-140/30
86-73-7	Fluorene	50	34.2	68	35.0	70	2	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	32.6	65	33.3	67	2	40-140/30
90-12-0	1-Methylnaphthalene	50	31.2	62	32.8	66	5	40-140/30
91-57-6	2-Methylnaphthalene	50	28.8	58	29.6	59	3	40-140/30
85-01-8	Phenanthrene	50	35.1	70	35.4	71	1	40-140/30
129-00-0	Pyrene	50	30.6	61	31.1	62	2	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	44%	45%	15-110%
4165-62-2	Phenol-d5	31%	32%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	72%	15-110%
4165-60-0	Nitrobenzene-d5	72%	71%	30-130%
321-60-8	2-Fluorobiphenyl	66%	67%	30-130%
1718-51-0	Terphenyl-d14	72%	72%	30-130%

* = Outside of Control Limits.

7.2.2
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30833-MS	W6393.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
OP30833-MSD	W6394.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
MC15400-7	W6395.D	1	10/31/12	KR	10/29/12	OP30833	MSW289

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	MC15400-7 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND	100	30.7	31	100	33.3	33	8	30-130/20
95-57-8	2-Chlorophenol	ND	100	66.4	66	100	69.1	69	4	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND	100	69.0	69	100	71.7	72	4	30-130/20
120-83-2	2,4-Dichlorophenol	ND	100	71.3	71	100	73.3	73	3	30-130/20
105-67-9	2,4-Dimethylphenol	ND	100	66.2	66	100	68.9	69	4	30-130/20
51-28-5	2,4-Dinitrophenol	ND	100	69.1	69	100	71.0	71	3	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND	100	74.1	74	100	79.5	80	7	30-130/20
95-48-7	2-Methylphenol	ND	100	58.0	58	100	61.3	61	6	30-130/20
	3&4-Methylphenol	ND	200	109	55	200	117	59	7	30-130/20
88-75-5	2-Nitrophenol	ND	100	74.5	75	100	76.8	77	3	30-130/20
100-02-7	4-Nitrophenol	ND	100	41.6	42	100	46.2	46	10	30-130/20
87-86-5	Pentachlorophenol	ND	100	72.1	72	100	76.7	77	6	30-130/20
108-95-2	Phenol	ND	100	30.1	30	100	33.8	34	12	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND	100	74.9	75	100	78.0	78	4	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND	100	77.9	78	100	79.8	80	2	30-130/20
62-53-3	Aniline	ND	50	19.4	39* a	50	21.2	42	9	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND	50	35.1	70	50	37.8	76	7	40-140/20
85-68-7	Butyl benzyl phthalate	ND	50	41.9	84	50	44.2	88	5	40-140/20
100-51-6	Benzyl Alcohol	ND	50	29.4	59	50	31.2	62	6	40-140/20
91-58-7	2-Chloronaphthalene	ND	50	71.2	142* a	50	76.0	152* a	7	40-140/20
106-47-8	4-Chloroaniline	ND	50	26.1	52	50	29.3	59	12	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND	50	32.2	64	50	33.4	67	4	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND	50	36.7	73	50	37.7	75	3	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND	50	41.8	84	50	43.5	87	4	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND	50	34.0	68	50	36.6	73	7	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND	50	35.0	70	50	38.2	76	9	40-140/20
121-14-2	2,4-Dinitrotoluene	ND	50	79.1	158* a	50	85.6	171* a	8	40-140/20
606-20-2	2,6-Dinitrotoluene	ND	50	78.4	157* a	50	83.4	167* a	6	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND	50	28.6	57	50	32.6	65	13	40-140/20
132-64-9	Dibenzofuran	ND	50	32.9	66	50	35.4	71	7	40-140/20
84-74-2	Di-n-butyl phthalate	ND	50	35.9	72	50	39.0	78	8	40-140/20
117-84-0	Di-n-octyl phthalate	ND	50	49.5	99	50	50.0	100	1	40-140/20
84-66-2	Diethyl phthalate	ND	50	36.7	73	50	39.3	79	7	40-140/20
131-11-3	Dimethyl phthalate	ND	50	35.9	72	50	38.8	78	8	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND	50	42.4	85	50	43.5	87	3	40-140/20
118-74-1	Hexachlorobenzene	ND	50	83.8	168* a	50	91.9	184* a	9	40-140/20

* = Outside of Control Limits.

7.3.1
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30833-MS	W6393.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
OP30833-MSD	W6394.D	1	10/31/12	KR	10/29/12	OP30833	MSW289
MC15400-7	W6395.D	1	10/31/12	KR	10/29/12	OP30833	MSW289

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

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

7.3.1
7

CAS No.	Compound	MC15400-7 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND	50	61.9	124	50	65.0	130	5	40-140/20
67-72-1	Hexachloroethane	ND	50	50.2	100	50	55.1	110	9	40-140/20
78-59-1	Isophorone	ND	50	75.2	150* a	50	77.9	156* a	4	40-140/20
88-74-4	2-Nitroaniline	ND	50	36.2	72	50	38.5	77	6	40-140/20
99-09-2	3-Nitroaniline	ND	50	26.8	54	50	31.7	63	17	40-140/20
100-01-6	4-Nitroaniline	ND	50	32.9	66	50	36.0	72	9	40-140/20
98-95-3	Nitrobenzene	ND	50	71.2	142* a	50	74.2	148* a	4	40-140/20
62-75-9	n-Nitrosodimethylamine	ND	50	23.9	48	50	26.5	53	10	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND	50	40.6	81	50	42.0	84	3	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND	50	35.8	72	50	38.9	78	8	40-140/20
110-86-1	Pyridine	ND	50	19.7	39* a	50	21.0	42	6	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC15400-7	Limits
367-12-4	2-Fluorophenol	45%	50%	45%	15-110%
4165-62-2	Phenol-d5	31%	34%	30%	15-110%
118-79-6	2,4,6-Tribromophenol	86%	92%	87%	15-110%
4165-60-0	Nitrobenzene-d5	74%	76%	75%	30-130%
321-60-8	2-Fluorobiphenyl	67%	71%	68%	30-130%
1718-51-0	Terphenyl-d14	95%	97%	103%	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: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30834-MS	U10454.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
OP30834-MSD	U10455.D	1	10/31/12	NS	10/29/12	OP30834	MSU560
MC15400-8	U10456.D	1	10/31/12	NS	10/29/12	OP30834	MSU560

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5

CAS No.	Compound	MC15400-8 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND	50	31.9	64	50	33.4	67	5	40-140/20
208-96-8	Acenaphthylene	ND	50	25.2	50	50	26.1	52	4	40-140/20
120-12-7	Anthracene	ND	50	31.4	63	50	33.3	67	6	40-140/20
56-55-3	Benzo(a)anthracene	ND	50	40.7	81	50	43.5	87	7	40-140/20
50-32-8	Benzo(a)pyrene	ND	50	27.5	55	50	28.9	58	5	40-140/20
205-99-2	Benzo(b)fluoranthene	ND	50	30.5	61	50	32.7	65	7	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND	50	30.4	61	50	32.0	64	5	40-140/20
207-08-9	Benzo(k)fluoranthene	ND	50	31.3	63	50	33.0	66	5	40-140/20
218-01-9	Chrysene	ND	50	34.5	69	50	36.6	73	6	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND	50	31.2	62	50	33.1	66	6	40-140/20
206-44-0	Fluoranthene	ND	50	31.6	63	50	33.9	68	7	40-140/20
86-73-7	Fluorene	ND	50	32.1	64	50	33.6	67	5	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	50	30.9	62	50	32.9	66	6	40-140/20
90-12-0	1-Methylnaphthalene	ND	50	30.9	62	50	32.0	64	3	40-140/20
91-57-6	2-Methylnaphthalene	ND	50	27.4	55	50	28.1	56	3	40-140/20
85-01-8	Phenanthrene	ND	50	33.1	66	50	34.8	70	5	40-140/20
129-00-0	Pyrene	ND	50	28.9	58	50	30.4	61	5	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC15400-8	Limits
367-12-4	2-Fluorophenol	40%	44%	40%	15-110%
4165-62-2	Phenol-d5	29%	31%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	67%	70%	69%	15-110%
4165-60-0	Nitrobenzene-d5	67%	68%	68%	30-130%
321-60-8	2-Fluorobiphenyl	62%	63%	61%	30-130%
1718-51-0	Terphenyl-d14	68%	71%	74%	30-130%

* = Outside of Control Limits.

7.3.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSU560-CC550	Injection Date:	10/31/12
Lab File ID:	U10442.D	Injection Time:	14:16
Instrument ID:	GCMSU	Method:	SW846 8270C 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	200930	3.73	595140	4.70	281510	6.12	475880	7.43	246735	10.21	309320	11.65
Upper Limit ^a	401860	4.23	1190280	5.20	563020	6.62	951760	7.93	493470	10.71	618640	12.15
Lower Limit ^b	100465	3.23	297570	4.20	140755	5.62	237940	6.93	123368	9.71	154660	11.15

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
OP30827-MB	234484	3.73	690604	4.70	333680	6.12	543774	7.43	317148	10.21	559398	11.65
OP30827-BS	209962	3.73	610408	4.71	283587	6.12	470690	7.43	256268	10.22	453770	11.66
ZZZZZZ	213863	3.73	635690	4.70	313577	6.12	504173	7.43	295806	10.21	510858	11.65
ZZZZZZ	229559	3.73	678642	4.70	330111	6.12	537514	7.43	313435	10.21	542204	11.66
ZZZZZZ	219029	3.73	649935	4.70	310403	6.12	506818	7.43	299835	10.21	525422	11.65
ZZZZZZ	229795	3.73	677330	4.70	328811	6.12	531728	7.43	314513	10.21	544770	11.65
ZZZZZZ	223544	3.73	669032	4.70	329685	6.12	537223	7.43	316713	10.21	546056	11.65
ZZZZZZ	213442	3.73	640225	4.70	310486	6.12	502366	7.43	293307	10.21	505268	11.65
OP30834-MB	239423	3.73	719812	4.70	344640	6.12	577793	7.43	309035	10.21	445300	11.65
OP30834-BS	210307	3.73	625357	4.71	296856	6.12	500567	7.44	250899	10.22	365774	11.65
OP30834-BSD	202196	3.73	597759	4.71	282155	6.12	476699	7.43	247431	10.22	357218	11.65
OP30834-MS	215433	3.73	628292	4.71	305875	6.12	515020	7.44	267420	10.22	417118	11.65
OP30834-MSD	198906	3.73	596635	4.71	282913	6.12	483458	7.44	260164	10.22	406852	11.65
MC15400-8	209942	3.73	626881	4.70	305414	6.12	502058	7.43	290705	10.21	456961	11.65
ZZZZZZ	213648	3.73	638904	4.70	309795	6.12	516187	7.43	299825	10.21	482624	11.65
ZZZZZZ	222724	3.73	669926	4.70	322027	6.12	533285	7.43	312452	10.21	519151	11.65
MC15232-1	210751	3.73	628842	4.70	308626	6.12	485231	7.43	293210	10.21	507892	11.65
MC15232-2	217621	3.73	648071	4.70	301170	6.12	495618	7.43	300177	10.21	520893	11.66
MC15232-3	226029	3.73	674269	4.70	323515	6.12	539421	7.43	324624	10.21	564153	11.65
MC15232-4	227700	3.73	689740	4.70	326194	6.12	534608	7.43	320298	10.21	566204	11.66
MC15232-5	230059	3.73	686974	4.70	330269	6.12	545888	7.43	333942	10.21	629116 ^c	11.66
ZZZZZZ	227520	3.73	669935	4.70	323146	6.12	536175	7.43	313993	10.21	541272	11.66
ZZZZZZ	234210	3.73	690856	4.70	327202	6.12	539331	7.43	316336	10.21	539718	11.65
ZZZZZZ	208798	3.73	625644	4.70	302112	6.12	518218	7.43	307999	10.21	534986	11.65
ZZZZZZ	226389	3.73	670846	4.70	319321	6.12	518810	7.43	293693	10.21	497074	11.65
ZZZZZZ	218898	3.73	642495	4.70	306054	6.12	515482	7.43	301312	10.21	525107	11.65
ZZZZZZ	221571	3.73	625767	4.71	320066	6.12	538515	7.43	310649	10.21	523817	11.65
ZZZZZZ	208893	3.73	618284	4.70	300456	6.12	487613	7.43	282485	10.21	478658	11.66

- 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

7.4.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSU560-CC550	Injection Date:	10/31/12
Lab File ID:	U10442.D	Injection Time:	14:16
Instrument ID:	GCMSU	Method:	SW846 8270C 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

- (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.

7.4.1

7

Semivolatile Internal Standard Area Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSU561-CC550	Injection Date:	11/01/12
Lab File ID:	U10475.D	Injection Time:	09:35
Instrument ID:	GCMSU	Method:	SW846 8270C 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	183403	3.71	540108	4.68	256247	6.10	429152	7.41	178830	10.19	216936	11.62
Upper Limit ^a	366806	4.21	1080216	5.18	512494	6.60	858304	7.91	357660	10.69	433872	12.12
Lower Limit ^b	91702	3.21	270054	4.18	128124	5.60	214576	6.91	89415	9.69	108468	11.12

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
OP30852-MB	194443	3.71	582923	4.68	276273	6.10	450390	7.41	266877	10.19	434777 ^c	11.62
OP30852-BS	175832	3.71	524362	4.68	241791	6.10	406820	7.41	223939	10.19	375436	11.62
OP30852-BSD	190073	3.71	554010	4.68	257327	6.10	428818	7.41	233704	10.19	391387	11.62
OP30852-MS	186866	3.71	549494	4.68	260853	6.10	433993	7.41	243488	10.19	451970 ^c	11.63
OP30852-MSD	193115	3.71	565266	4.68	266252	6.10	447035	7.41	251842	10.19	419831	11.63
MC15310-1	182217	3.71	547406	4.68	259520	6.10	428207	7.41	251575	10.19	413234	11.62
ZZZZZZ	199096	3.71	583400	4.68	275708	6.10	451245	7.41	262627	10.19	441806 ^c	11.62
OP30785-MB	195599	3.71	584869	4.68	283315	6.10	456131	7.41	265234	10.19	450191 ^c	11.62
OP30785-BS	201932	3.71	584714	4.68	273066	6.10	455636	7.41	254046	10.20	432749	11.63
ZZZZZZ	190709	3.71	561136	4.68	264510	6.10	436757	7.41	259060	10.19	434662 ^c	11.62
ZZZZZZ	192528	3.71	574108	4.68	270595	6.10	442259	7.41	262593	10.19	457992 ^c	11.63
ZZZZZZ	194604	3.71	579860	4.68	274436	6.10	450723	7.41	266480	10.19	449298 ^c	11.62
OP30842-MB	207906	3.71	609269	4.68	289897	6.10	478159	7.41	283338	10.19	477178 ^c	11.62
OP30842-BS	197354	3.71	588912	4.68	269659	6.10	457832	7.41	254887	10.20	441891 ^c	11.63
ZZZZZZ	200326	3.71	600477	4.68	289526	6.10	468109	7.41	277217	10.19	481179 ^c	11.63
ZZZZZZ	200053	3.71	589637	4.68	280473	6.10	460862	7.41	271389	10.19	472512 ^c	11.63
ZZZZZZ	192784	3.71	554254	4.68	270203	6.10	445627	7.41	260785	10.19	451739 ^c	11.62
ZZZZZZ	198413	3.71	565830	4.68	278849	6.10	452094	7.41	272274	10.19	464983 ^c	11.63
OP30843-MB ^d	367803*	3.70	1065248	4.68	492961	6.10	798774	7.41	464102*	10.19	823981*	11.63
OP30843-BS	212824	3.70	621442	4.68	281514	6.10	466346	7.41	257767	10.19	454972 ^c	11.63
ZZZZZZ	211302	3.70	617037	4.68	287695	6.10	464781	7.41	266696	10.19	462892 ^c	11.63
MC15232-3 ^e	271669	3.68	809167	4.66	386123	6.08	636257	7.39	378438 ^f	10.17	662140 ^f	11.60
ZZZZZZ	254683	3.68	740628	4.66	355969	6.08	588435	7.38	342652	10.17	598882*	11.60

- 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.
- (c) Outside control limits. Target analytes not associated with this internal standard.
- (d) Internal standard spiked at 2x concentration.

7.4.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSU561-CC550	Injection Date:	11/01/12
Lab File ID:	U10475.D	Injection Time:	09:35
Instrument ID:	GCMSU	Method:	SW846 8270C 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

- (e) Confirmation run for surrogate recoveries.
- (f) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

7.4.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSW289-CC287	Injection Date:	10/31/12
Lab File ID:	W6388.D	Injection Time:	08:28
Instrument ID:	GCMSW	Method:	SW846 8270C

	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	107585	3.49	421003	4.47	250550	5.88	439563	7.16	554445	9.99	482278	11.55
Upper Limit ^a	215170	3.99	842006	4.97	501100	6.38	879126	7.66	1108890	10.49	964556	12.05
Lower Limit ^b	53793	2.99	210502	3.97	125275	5.38	219782	6.66	277223	9.49	241139	11.05

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
OP30833-MB	128199	3.49	505036	4.47	301800	5.88	543772	7.16	552851	9.99	429645	11.55
OP30833-BS	129385	3.49	509942	4.47	297800	5.88	519847	7.16	557797	9.99	383323	11.55
OP30833-BSD	119142	3.49	470909	4.47	282163	5.88	489013	7.16	540572	9.99	382767	11.55
ZZZZZZ	124090	3.49	491069	4.47	292281	5.88	497979	7.16	510782	9.99	341504	11.55
OP30833-MS	133461	3.49	521467	4.47	309349	5.88	535232	7.16	591846	9.99	442253	11.55
OP30833-MSD	121178	3.49	480839	4.47	281398	5.88	484072	7.16	559172	9.99	430580	11.55
MC15400-7	121418	3.49	473450	4.47	283035	5.88	505382	7.15	543460	9.99	463569	11.55
ZZZZZZ	123844	3.49	482058	4.47	289336	5.88	500744	7.16	557642	9.99	481681	11.55
ZZZZZZ	117793	3.49	476939	4.47	287256	5.88	510210	7.15	566494	9.99	524737	11.55
MC15232-1	117395	3.49	465557	4.47	278568	5.88	502809	7.16	582960	9.99	558593	11.55
MC15232-2	115876	3.49	466945	4.47	286243	5.88	504235	7.16	577687	9.99	549494	11.55
MC15232-3	114869	3.49	460685	4.47	280173	5.88	503473	7.16	590555	9.99	579443	11.55
MC15232-4	117270	3.49	469920	4.47	282956	5.88	507151	7.16	599644	9.99	596696	11.55
MC15232-5	124588	3.49	496159	4.47	294053	5.88	529230	7.16	608843	9.99	654991	11.55
MC15400-4	98533	3.49	387918	4.47	229416	5.88	406804	7.15	449750	9.99	436943	11.55
OP30828-MB	95395	3.49	379505	4.47	220899	5.88	393713	7.15	435149	9.99	425222	11.55
OP30828-BS	104709	3.49	405469	4.47	238318	5.88	409302	7.16	486733	9.99	422818	11.55
OP30828-MS	99048	3.49	389920	4.47	230284	5.88	400965	7.16	488361	9.99	426104	11.55
OP30828-MSD	100993	3.49	395252	4.47	230811	5.88	405620	7.16	481429	9.99	420128	11.55
ZZZZZZ	98329	3.49	389237	4.47	236412	5.88	413878	7.15	461396	9.99	449776	11.55
ZZZZZZ	96614	3.49	379757	4.47	223947	5.88	393249	7.15	439736	9.99	427075	11.55
ZZZZZZ	96333	3.49	380982	4.47	224853	5.88	403474	7.15	454391	9.99	437351	11.55
ZZZZZZ	98812	3.49	392025	4.47	230304	5.88	411521	7.15	448407	9.99	438080	11.55
ZZZZZZ	99257	3.49	393809	4.47	234130	5.88	407260	7.15	463294	9.99	450478	11.55
ZZZZZZ	99544	3.49	396020	4.47	234958	5.88	413408	7.15	464736	9.99	451763	11.55
ZZZZZZ	94889	3.49	382581	4.47	228366	5.88	409583	7.16	457605	9.99	437495	11.55
ZZZZZZ	94262	3.49	376175	4.47	223134	5.88	396593	7.15	441366	9.99	430770	11.55
ZZZZZZ	102680	3.49	407911	4.47	243059	5.88	424685	7.15	473525	9.99	454194	11.55
ZZZZZZ	95080	3.49	384956	4.47	225098	5.88	396994	7.15	449625	9.99	431593	11.55
ZZZZZZ	120875	3.49	482288	4.47	284138	5.88	497881	7.15	574614	9.99	628771	11.55
ZZZZZZ	108991	3.49	450532	4.47	263978	5.88	476291	7.15	523673	9.99	378140	11.55

IS 1 = 1,4-Dichlorobenzene-d4
 IS 2 = Naphthalene-d8
 IS 3 = Acenaphthene-D10

7.4.3
7

Semivolatile Internal Standard Area Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSW289-CC287	Injection Date:	10/31/12
Lab File ID:	W6388.D	Injection Time:	08:28
Instrument ID:	GCMSW	Method:	SW846 8270C

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

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.

7.4.3
7

Semivolatile Internal Standard Area Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSW305-CC300	Injection Date:	11/08/12
Lab File ID:	W6669.D	Injection Time:	07:28
Instrument ID:	GCMSW	Method:	SW846 8270C

	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	124427	3.44	503102	4.43	283233	5.84	570469	7.11	703701	9.94	673604	11.50
Upper Limit ^a	248854	3.94	1006204	4.93	566466	6.34	1140938	7.61	1407402	10.44	1347208	12.00
Lower Limit ^b	62214	2.94	251551	3.93	141617	5.34	285235	6.61	351851	9.44	336802	11.00

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
OP30882-MB	120311	3.44	475031	4.43	277782	5.84	501579	7.10	569446	9.93	562291	11.49
OP30882-BS	110695	3.44	441142	4.43	263552	5.84	467353	7.11	564497	9.94	505129	11.49
ZZZZZZ	155009	3.44	621328	4.43	367923	5.84	665071	7.10	834378	9.93	763048	11.50
ZZZZZZ	149337	3.45	601448	4.43	346678	5.84	629240	7.11	779266	9.93	701272	11.50
ZZZZZZ	152304	3.44	593142	4.43	356038	5.84	646362	7.11	809330	9.93	744506	11.50
ZZZZZZ	152304	3.44	593867	4.43	356056	5.84	646340	7.11	805208	9.93	744087	11.50
ZZZZZZ	122971	3.44	481215	4.43	286898	5.84	518014	7.10	637879	9.93	595013	11.50
ZZZZZZ	122976	3.44	481351	4.43	286893	5.84	518014	7.10	636990	9.93	593642	11.50
ZZZZZZ	149579	3.44	591585	4.43	358031	5.84	656284	7.11	821856	9.94	775378	11.50
ZZZZZZ	149633	3.44	591661	4.43	357785	5.84	658528	7.11	817884	9.94	770659	11.50
ZZZZZZ	144262	3.44	571101	4.43	342430	5.84	619959	7.11	768323	9.93	717784	11.49
OP30882-MS	123735	3.44	489357	4.43	289744	5.84	519149	7.11	656265	9.94	594895	11.50
OP30882-MSD	123800	3.44	489767	4.43	288561	5.84	511676	7.11	618597	9.94	546644	11.49
MC15506-3	116893	3.44	463050	4.43	270707	5.84	498145	7.10	574186	9.93	567815	11.49
ZZZZZZ	103315	3.44	407763	4.43	248533	5.84	452444	7.11	526357	9.94	523023	11.50
MC15232-3 ^c	129734	3.44	532129	4.43	316400	5.84	579518	7.11	700729	9.93	685697	11.49
ZZZZZZ	109086	3.44	439236	4.43	271123	5.84	488199	7.11	563598	9.94	542628	11.50
ZZZZZZ	114808	3.44	449243	4.43	271989	5.84	493320	7.11	585085	9.93	566985	11.50
ZZZZZZ	116683	3.44	458784	4.43	276559	5.84	492827	7.11	573958	9.93	568332	11.50
ZZZZZZ	110443	3.44	440750	4.43	263360	5.84	467295	7.11	544656	9.93	540699	11.49

- 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) Confirmation run for surrogate recoveries.

7.4.4
7

Semivolatile Surrogate Recovery Summary

Job Number: MC15232

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Method: SW846 8270C	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC15232-1	W6398.D	42	28	88	72	66	89
MC15232-2	W6399.D	42	27	90	74	67	95
MC15232-3	W6400.D	17	12* a	60	33	36	92
MC15232-3	W6685.D	11* a	9* a	39	34	37	94
MC15232-4	W6401.D	42	28	86	72	66	90
MC15232-5	W6402.D	36	24	76	65	61	86
OP30833-BS	W6390.D	49	33	93	79	73	104
OP30833-BSD	W6391.D	50	35	92	79	73	102
OP30833-MB	W6389.D	37	24	80	62	57	104
OP30833-MS	W6393.D	45	31	86	74	67	95
OP30833-MSD	W6394.D	50	34	92	76	71	97

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%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

7.5.1
7

Semivolatile Surrogate Recovery Summary

Job Number: MC15232

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC15232-1	U10459.D	37	26	69	67	60	69
MC15232-2	U10460.D	37	25	71	67	63	71
MC15232-3	U10461.D	16	12* a	51	33	37	71
MC15232-3	U10498.D	15	12* a	47	34	37	69
MC15232-4	U10462.D	38	27	68	65	62	68
MC15232-5	U10463.D	33	24	63	60	57	66
OP30834-BS	U10452.D	44	31	72	72	66	72
OP30834-BSD	U10453.D	45	32	72	71	67	72
OP30834-MB	U10451.D	33	23	63	59	54	69
OP30834-MS	U10454.D	40	29	67	67	62	68
OP30834-MSD	U10455.D	44	31	70	68	63	71

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%

(a) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

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: MC15232
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30822-MB	BK18310A.D	1	10/29/12	AP	10/26/12	OP30822	GBK670

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

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-6

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	Bromofluorobenzene (S)	112%	36-173%
460-00-4	Bromofluorobenzene (S)	106%	36-173%

8.1.1
8

Blank Spike Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30822-BS	BK18311A.D	1	10/29/12	AP	10/26/12	OP30822	GBK670

The QC reported here applies to the following samples:

Method: SW846 8011

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.081	114	60-140
106-93-4	1,2-Dibromoethane	0.071	0.082	115	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	123%	36-173%
460-00-4	Bromofluorobenzene (S)	122%	36-173%

8.2.1
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP30822-MS	BK18312A.D	1	10/29/12	AP	10/26/12	OP30822	GBK670
OP30822-MSD	BK18313A.D	1	10/29/12	AP	10/26/12	OP30822	GBK670
MC15278-6	BK18317A.D	1	10/30/12	AP	10/29/12	OP30822	GBK670

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

MC15232-1, MC15232-2, MC15232-3, MC15232-4, MC15232-5, MC15232-6

CAS No.	Compound	MC15278-6 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0692	0.067	97	0.0696	0.074	106	10	64-141/29
106-93-4	1,2-Dibromoethane	ND	0.0692	0.070	101	0.0696	0.075	108	7	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC15278-6	Limits
460-00-4	Bromofluorobenzene (S)	116%	114%	108%	36-173%
460-00-4	Bromofluorobenzene (S)	113%	110%	110%	36-173%

8.3.1
8

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC15232

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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
MC15232-1	BK18326.D	108	111
MC15232-2	BK18327.D	121	117
MC15232-3	BK18328.D	115	112
MC15232-4	BK18329.D	124	118
MC15232-5	BK18330.D	113	110
MC15232-6	BK18332.D	128	120
OP30822-BS	BK18311A.D	123	122
OP30822-MB	BK18310A.D	112	106
OP30822-MS	BK18312A.D	116	113
OP30822-MSD	BK18313A.D	114	110

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: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	GBK670-CC670	Injection Date:	10/30/12
Lab File ID:	BK18320.D	Injection Time:	02:44
Instrument ID:	GCBK	Method:	SW846 8011

S1^a S1^b
 RT RT

Check Std	4.64	4.86
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Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 ^a RT	S1 ^b RT
ZZZZZZ	BK18321.D	10/30/12	03:09	4.64	4.86
ZZZZZZ	BK18322.D	10/30/12	03:35	4.64	4.86
ZZZZZZ	BK18323.D	10/30/12	04:00	4.64	4.86
ZZZZZZ	BK18324.D	10/30/12	04:26	4.64	4.86
ZZZZZZ	BK18325.D	10/30/12	04:51	4.64	4.86
MC15232-1	BK18326.D	10/30/12	05:17	4.64	4.86
MC15232-2	BK18327.D	10/30/12	05:42	4.64	4.86
MC15232-3	BK18328.D	10/30/12	06:07	4.64	4.86
MC15232-4	BK18329.D	10/30/12	06:31	4.64	4.86
MC15232-5	BK18330.D	10/30/12	06:56	4.64	4.86

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

8.5.1
8

GC Surrogate Retention Time Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	GBK670-ICC670	Injection Date:	10/29/12
Lab File ID:	BK18305.D	Injection Time:	20:22
Instrument ID:	GCBK	Method:	SW846 8011

S1^a S1^b
 RT RT

Check Std	4.64	4.86
-----------	------	------

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 ^a RT	S1 ^b RT
ZZZZZZ	BK18308A.D	10/29/12	21:37	4.64	4.86
ZZZZZZ	BK18308B.D	10/29/12	21:37	4.64	4.86
OP30821-MB	BK18310.D	10/29/12	22:28	4.64	4.86
OP30822-MB	BK18310A.D	10/29/12	22:28	4.64	4.86
OP30822-BS	BK18311A.D	10/29/12	22:53	4.64	4.86
OP30821-BS	BK18311.D	10/29/12	22:53	4.64	4.86
OP30822-MS	BK18312A.D	10/29/12	23:19	4.64	4.86
OP30821-MS	BK18312.D	10/29/12	23:19	4.64	4.86
OP30821-MSD	BK18313.D	10/29/12	23:45	4.64	4.86
OP30822-MSD	BK18313A.D	10/29/12	23:45	4.64	4.86
ZZZZZZ	BK18314.D	10/30/12	00:10	4.64	4.86
ZZZZZZ	BK18315.D	10/30/12	00:36	4.64	4.86
ZZZZZZ	BK18316.D	10/30/12	01:01	4.64	4.86
MC15278-6	BK18317A.D	10/30/12	01:27	4.64	4.86
MC15050-4	BK18317.D	10/30/12	01:27	4.64	4.86
ZZZZZZ	BK18318.D	10/30/12	01:52	4.64	4.86
ZZZZZZ	BK18319.D	10/30/12	02:18	4.64	4.86

Surrogate Compounds

S1 = Bromofluorobenzene (S)

(a) Retention time from GC signal #2

(b) Retention time from GC signal #1

8.5.2
8

GC Surrogate Retention Time Summary

Job Number: MC15232
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	GBK670-CC670	Injection Date:	10/30/12
Lab File ID:	BK18331.D	Injection Time:	07:20
Instrument ID:	GCBK	Method:	SW846 8011

S1^a S1^b
 RT RT

Check Std	4.64	4.86
-----------	------	------

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 ^a RT	S1 ^b RT
MC15232-6	BK18332.D	10/30/12	07:45	4.64	4.86
GBK670-ECC670	BK18333.D	10/30/12	08:09	4.64	4.86

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

8.5.3
8

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e-Hardcopy 2.0
Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC15892

Sampling Date: 11/09/12

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 68



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. Madadian
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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ACCUTEST

October 31, 2016

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

RE: SGS Accutest Job # MC15892

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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TESTING AND CERTIFICATION COMPANY.

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Sample Summary

Shell Oil

Job No: MC15892

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC15892-1	11/09/12	11:40 LRCK	11/10/12	AQ	Ground Water	P114-ROX-110912
MC15892-2	11/09/12	00:00 LRCK	11/10/12	AQ	Trip Blank Water	TB-110912-HCL-W
MC15892-3	11/09/12	00:00 LRCK	11/10/12	AQ	Trip Blank Water	TB-110912-ST-W

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: She O

Job No MC 5892

Site: URSMOSTL:Roxana 4Q 2 GW/ 2 562735 00009 900 South Centra **Report Date** 10/3 /20 6 0:44:39 A

Sample(s), 2 Trip Blank(s) were collected on 10/09/2016 and were received at SGS Accutest New England on 10/10/2016 properly preserved, at 4 Deg C and intact. These Samples received a job number of MC 5892. A list of the Laboratory Sample ID, Content Sample ID and dates of collection are presented in the Results Summary Section of this report. 2-Chloroethane, Benzene, o, p, D benz(a,h)anthracene, Indene, and Quinoline were searched in the library search and reported on if detections were found.

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

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** MSP2 77

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC 5896-4 MS, MC 5896-4 MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specification criteria.
- MSP2 77-BS Recovery(s) for Acetone, 2-Butanone (MEK), Acroene are out of control limits.
- Matrix Spike Recovery(s) for 4-Dioxane, Acetone, Acroene, Dichlorodifluoromethane are out of control limits. Out of control limits due to possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, Acroene are out of control limits. Out of control limits due to possible matrix interference.
- RPD(s) for MSD for 4-Dioxane, Acroene are out of control limits for sample MC 5896-4 MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MC 5892- : Confirmation run for surrogate recoveries.
- MC 5892- for 4-Bromodifluorobenzene: Out of control limits due to possible matrix interference. Confirmed by reanalysis.
- MC 5892- for Acetone: In-tact Criteria Verification on out of acceptance criteria. Sample result may be biased high.
- Acroene, 2-Chloroethyl vinyl ether, 4-dioxane: In-tact Criteria Verification on out of acceptance criteria. Sample result may be biased low.
- MSP2 77-BS Recovery(s) for Acroene, Vinyl Acetate are out of control limits.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP3 057

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specification criteria.
- Sample(s) MC 6698- MS, MC 6698- MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Aniline, Pyridine are out of control limits.
- OP3 057-MS/MSD Recovery(s) for 3,3'-Dichlorobenzene, 4-Chloroaniline (MS only) are out of control limits. Out of control limits due to possible matrix interference. Refer to Blank Spike.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP3 058

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC 5873- FMS, MC 5873- FMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specification criteria.

Monday, October 31, 2016

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Volatiles by GC By Method SW846 8011

Matrix: AQ

Batch ID: OP3 006

- All samples were extracted within the recommended method holding time
- All samples were analyzed within the recommended method holding time
- Sample(s) MC 59 4-9MS, MC 59 4-9MSD were used as the QC samples indicated
- All method blanks for this batch meet method specification
- MC 5892- for Bromofluorobenzene (S): Out of control limits Samples non-detect for target analytes

SGS Accutest New England certifies that all analyses were performed within method specification. It is further recommended that this report be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report (MC 5892)

Monday, October 31, 2016

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Summary of Hits

Job Number: MC15892
Account: Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
Collected: 11/09/12



Lab Sample ID	Client Sample ID	Result/ Analyte	Qual	RL	MDL	Units	Method
MC15892-1	P114-ROX-110912						
		Acetone ^a	14.4	5.0	3.0	ug/l	SW846 8260B
		Methyl Tert Butyl Ether	7.6	1.0	0.41	ug/l	SW846 8260B
		m,p-Xylene	1.3	1.0	0.73	ug/l	SW846 8260B
		Xylene (total)	1.3	1.0	0.58	ug/l	SW846 8260B

MC15892-2 TB-110912-HCL-W

No hits reported in this sample.

MC15892-3 TB-110912-ST-W

No hits reported in this sample.

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

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P114-ROX-110912	Date Sampled:	11/09/12
Lab Sample ID:	MC15892-1	Date Received:	11/10/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66619.D	1	11/22/12	TT	n/a	n/a	MSP2177
Run #2 ^a	P66600.D	1000	11/22/12	TT	n/a	n/a	MSP2177

Run #	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 ^b	14.4	5.0	3.0	ug/l	
107-02-8	Acrolein ^c	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether ^c	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-110912	Date Sampled:	11/09/12
Lab Sample ID:	MC15892-1	Date Received:	11/10/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane ^c	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.6	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	1.3	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	1.3	1.0	0.58	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-110912		Date Sampled: 11/09/12
Lab Sample ID: MC15892-1		Date Received: 11/10/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	89%	70-130%
2037-26-5	Toluene-D8	97%	89%	70-130%
460-00-4	4-Bromofluorobenzene	142% ^d	91%	70-130%

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

- (a) Confirmation run for surrogate recoveries.
- (b) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased high.
- (c) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.
- (d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: P114-ROX-110912	Date Sampled: 11/09/12
Lab Sample ID: MC15892-1	Date Received: 11/10/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F59958.D	1	12/05/12	KR	11/16/12	OP31057	MSF2828
Run #2							

Run #	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	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	0.42	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.39	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.39	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.8	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.6	ug/l	
95-48-7	2-Methylphenol	ND	10	0.62	ug/l	
	3&4-Methylphenol	ND	10	0.78	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.49	ug/l	
100-02-7	4-Nitrophenol	ND	21	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.2	0.96	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.51	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.36	ug/l	
62-53-3	Aniline	ND	10	2.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	0.34	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	0.27	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.27	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.65	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	0.39	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	0.29	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	0.30	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	0.26	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.26	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.26	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	0.92	ug/l	
132-64-9	Dibenzofuran	ND	2.1	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.37	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.24	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-110912	Date Sampled: 11/09/12
Lab Sample ID: MC15892-1	Date Received: 11/10/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.19	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.39	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	0.26	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	5.2	ug/l	
67-72-1	Hexachloroethane	ND	5.2	0.29	ug/l	
78-59-1	Isophorone	ND	5.2	0.33	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.26	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.26	ug/l	
100-01-6	4-Nitroaniline	ND	10	1.3	ug/l	
98-95-3	Nitrobenzene	ND	5.2	0.26	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	0.61	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	0.28	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	0.45	ug/l	
110-86-1	Pyridine	ND	10	0.48	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	76%		30-130%
321-60-8	2-Fluorobiphenyl	69%		30-130%
1718-51-0	Terphenyl-d14	55%		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-110912	Date Sampled: 11/09/12
Lab Sample ID: MC15892-1	Date Received: 11/10/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C BY SIM SW846 3510C	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I80105.D	1	11/20/12	NS	11/16/12	OP31058	MSI2984
Run #2							

Run #	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	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.014	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.031	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.018	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.039	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.060	ug/l	
218-01-9	Chrysene	ND	0.10	0.075	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.043	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.034	ug/l	
86-73-7	Fluorene	ND	0.10	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.047	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.21	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.054	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.037	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	84%		15-110%
4165-60-0	Nitrobenzene-d5	72%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	59%		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-110912	Date Sampled: 11/09/12
Lab Sample ID: MC15892-1	Date Received: 11/10/12
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18854.D	1	11/14/12	AP	11/12/12	OP31006	GBK686
Run #2							

	Initial Volume	Final Volume
Run #1	35.1 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	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	196% ^a		36-173%
460-00-4	Bromofluorobenzene (S)	193% ^a		36-173%

(a) Outside control limits. Sample is non-detect for target analytes.

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

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Report of Analysis

Client Sample ID:	TB-110912-HCL-W	Date Sampled:	11/09/12
Lab Sample ID:	MC15892-2	Date Received:	11/10/12
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P66588.D	1	11/21/12	TT	n/a	n/a	MSP2177
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein ^a	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether ^a	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-110912-HCL-W	Date Sampled:	11/09/12
Lab Sample ID:	MC15892-2	Date Received:	11/10/12
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane ^a	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-110912-HCL-W		Date Sampled: 11/09/12
Lab Sample ID: MC15892-2		Date Received: 11/10/12
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

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VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	97%		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) Initial Calibration Verification outside of acceptance criteria. Sample result may be biased low.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TB-110912-ST-W	Date Sampled: 11/09/12
Lab Sample ID: MC15892-3	Date Received: 11/10/12
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8011 SW846 8011	
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK18855.D	1	11/14/12	AP	11/12/12	OP31006	GBK686
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	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	105%		36-173%
460-00-4	Bromofluorobenzene (S)	92%		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

4.3
4

Misc. Forms

5

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



LAB (LOCATION)
 XENCO
 CALSICHE
 OTHER (Marlborough, MA 01752 (508-481-6200))
 SFL
 Lab Vendor #

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

Print Bill To Contact Name: Dave Palmer
 INCIDENT # (ENV SERVICES) 9 7 2 1 8 8 4 0
 DATE: 11-09-12
 PO # SAP # 3 4 0 0 6 1
 PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
 ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
 PROJECT CONTACT (Name/Phone/Fax): Dave Palmer and Elizabeth Kunkel
 PHONE: 314-429-0100 FAX: 314-429-0482 EMAIL: dave.palmer@urs.com; elizabeth.kunkel@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 LIST 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 LEED DISK

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA
 STATE: IL GLOBAL ID NO.:
 CONDUCTIVITY PROJECT NO.: Roxana Quarterly GW / 21562735.00009
 SAMPLER NAME(S) (Print): L. Rathnow / C. Kretzer
 LAB USE ONLY: MC15892

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	VOC 8260B SL+TICS			PID (ppm)	FIELD NOTES: TEMPERATURE ON RECEIPT C° Container PID Readings or Laboratory Notes
	DATE	TIME	HCL	HH03		HQ04	NONE	OTHER	VOC 8011 SL	SVOC 8270C SL+TICS		PAH 8270LL				
-1	P114-ROX-110912	11/9	1140	Water	2		2	2	6	X	X	X		0		
-2	TB-110912-HQ-W	11/9	0000	Water	2			2	2	X				0		
-3	TB-110912-ST-W	11/9	0000	Water			2	2	2	X				0		
CAK															18A, 5I2	
11°																

Relinquished by (Signature): *Cynthia Kelly* Received by (Signature): *FED EX* Date: 11-09-12 Time:
 Relinquished by (Signature): *Fedex* Received by (Signature): *[Signature]* Date: 11-10-12 10:00 Time: 10:00
 Relinquished by (Signature): Received by (Signature): Date: Time:

09/08 Revision

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MC15892: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC15892 Client: URS Immediate Client Services Action Required: No
 Date / Time Received: 11/10/2012 Delivery Method: _____ Client Service Action Required at Login: No
 Project: 900 SO 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: Infrared 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

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC15892

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

5.2
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
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MC15892-1 Collected: 09-NOV-12 11:40 By: LRCK Received: 10-NOV-12 By: P114-ROX-110912

MC15892-1 SW846 8011	14-NOV-12 07:12	AP	12-NOV-12 CA	V8011SL
MC15892-1 SW846 8270C BY SIM	20-NOV-12 13:39	NS	16-NOV-12 PA	B8270SIMSL
MC15892-1 SW846 8260B	22-NOV-12 08:57	TT		V8260SL +
MC15892-1 SW846 8260B	22-NOV-12 17:48	TT		V8260SL +
MC15892-1 SW846 8270C	05-DEC-12 11:56	KR	16-NOV-12 PA	AB8270SL +

MC15892-2 Collected: 09-NOV-12 00:00 By: LRCK Received: 10-NOV-12 By: TB-110912-HCL-W

MC15892-2 SW846 8260B	21-NOV-12 15:25	TT		V8260SL +
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MC15892-3 Collected: 09-NOV-12 00:00 By: LRCK Received: 10-NOV-12 By: TB-110912-ST-W

MC15892-3 SW846 8011	14-NOV-12 07:36	AP	12-NOV-12 CA	V8011SL
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SGS Accutest Internal Chain of Custody

Job Number: MC15892
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
Received: 11/10/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC15892-1.2	Walk In Ref #22	Michael Rolo	11/16/12 07:47	Retrieve from Storage
MC15892-1.2	Michael Rolo		11/19/12 07:12	Depleted
MC15892-1.3	VOC Ref #5	Tomasz Torski	11/21/12 14:41	Retrieve from Storage
MC15892-1.3	Tomasz Torski	GCMSP	11/21/12 14:41	Load on Instrument
MC15892-1.3	GCMSP	Tomasz Torski	11/27/12 08:50	Unload from Instrument
MC15892-1.3	Tomasz Torski	VOC Ref #5	11/27/12 08:53	Return to Storage
MC15892-1.3	Scott Parsick		01/17/13 13:09	Disposed
MC15892-1.6	VOC Ref #5	Nick Krasinski	11/12/12 14:07	Retrieve from Storage
MC15892-1.6	Nick Krasinski		11/12/12 21:17	Depleted
MC15892-2.1	VOC Ref #5	Jugal Patel	11/20/12 12:41	Retrieve from Storage
MC15892-2.1	Jugal Patel	GCMSP	11/20/12 12:42	Load on Instrument
MC15892-2.1	GCMSP	Jugal Patel	11/20/12 13:00	Unload from Instrument
MC15892-2.1	Jugal Patel	VOC Ref #5	11/20/12 13:00	Return to Storage
MC15892-2.1	VOC Ref #5	Tomasz Torski	11/21/12 14:41	Retrieve from Storage
MC15892-2.1	Tomasz Torski	GCMSP	11/21/12 14:41	Load on Instrument
MC15892-2.1	GCMSP	Tomasz Torski	11/27/12 08:50	Unload from Instrument
MC15892-2.1	Tomasz Torski	VOC Ref #5	11/27/12 08:53	Return to Storage
MC15892-2.1	Scott Parsick		01/17/13 13:09	Disposed
MC15892-3.2	VOC Ref #5	Nick Krasinski	11/12/12 14:07	Retrieve from Storage
MC15892-3.2	Nick Krasinski		11/12/12 21:17	Depleted

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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: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-MB	P66587.D	1	11/21/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

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Method Blank Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-MB	P66587.D	1	11/21/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-2

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC15892
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-MB	P66587.D	1	11/21/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	91%	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	

Method Blank Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-MB1	P66599.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

Method Blank Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-MB1	P66599.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

Method Blank Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-MB1	P66599.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	92% 70-130%
2037-26-5	Toluene-D8	93% 70-130%
460-00-4	4-Bromofluorobenzene	96% 70-130%

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

6.1.2
6

Blank Spike Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-BS	P66585.D	1	11/21/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	80.9	162* a	70-130
107-02-8	Acrolein	250	138	55* b	70-130
107-13-1	Acrylonitrile	50	46.8	94	70-130
71-43-2	Benzene	50	48.9	98	70-130
108-86-1	Bromobenzene	50	47.1	94	70-130
74-97-5	Bromochloromethane	50	48.5	97	70-130
75-27-4	Bromodichloromethane	50	50.5	101	70-130
75-25-2	Bromoform	50	46.7	93	70-130
74-83-9	Bromomethane	50	60.2	120	70-130
78-93-3	2-Butanone (MEK)	50	68.6	137* b	70-130
104-51-8	n-Butylbenzene	50	47.7	95	70-130
135-98-8	sec-Butylbenzene	50	45.0	90	70-130
98-06-6	tert-Butylbenzene	50	44.4	89	70-130
75-15-0	Carbon disulfide	50	50.6	101	70-130
56-23-5	Carbon tetrachloride	50	48.5	97	70-130
108-90-7	Chlorobenzene	50	44.1	88	70-130
75-00-3	Chloroethane	50	46.7	93	70-130
110-75-8	2-Chloroethyl vinyl ether	50	38.8	78	70-130
67-66-3	Chloroform	50	46.7	93	70-130
74-87-3	Chloromethane	50	50.0	100	70-130
95-49-8	o-Chlorotoluene	50	44.0	88	70-130
106-43-4	p-Chlorotoluene	50	45.6	91	70-130
124-48-1	Dibromochloromethane	50	48.3	97	70-130
95-50-1	1,2-Dichlorobenzene	50	44.5	89	70-130
541-73-1	1,3-Dichlorobenzene	50	44.8	90	70-130
106-46-7	1,4-Dichlorobenzene	50	46.9	94	70-130
75-71-8	Dichlorodifluoromethane	50	60.4	121	70-130
75-34-3	1,1-Dichloroethane	50	47.7	95	70-130
107-06-2	1,2-Dichloroethane	50	45.9	92	70-130
75-35-4	1,1-Dichloroethene	50	48.5	97	70-130
156-59-2	cis-1,2-Dichloroethene	50	44.6	89	70-130
156-60-5	trans-1,2-Dichloroethene	50	45.9	92	70-130
78-87-5	1,2-Dichloropropane	50	46.6	93	70-130
142-28-9	1,3-Dichloropropane	50	46.1	92	70-130
594-20-7	2,2-Dichloropropane	50	52.3	105	70-130
563-58-6	1,1-Dichloropropene	50	48.2	96	70-130

* = Outside of Control Limits.

6.2.1
6

Blank Spike Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-BS	P66585.D	1	11/21/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	46.6	93	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.4	99	70-130
123-91-1	1,4-Dioxane	250	276	110	70-130
97-63-2	Ethyl methacrylate	50	48.7	97	77-137
100-41-4	Ethylbenzene	50	46.7	93	70-130
87-68-3	Hexachlorobutadiene	50	47.9	96	70-130
591-78-6	2-Hexanone	50	56.9	114	70-130
98-82-8	Isopropylbenzene	50	44.8	90	70-130
99-87-6	p-Isopropyltoluene	50	49.5	99	70-130
1634-04-4	Methyl Tert Butyl Ether	50	49.5	99	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.8	96	70-130
74-95-3	Methylene bromide	50	46.8	94	70-130
75-09-2	Methylene chloride	50	46.0	92	70-130
91-20-3	Naphthalene	50	47.6	95	70-130
103-65-1	n-Propylbenzene	50	44.8	90	70-130
100-42-5	Styrene	50	46.1	92	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	48.9	98	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	47.3	95	70-130
127-18-4	Tetrachloroethene	50	48.1	96	70-130
108-88-3	Toluene	50	47.0	94	70-130
87-61-6	1,2,3-Trichlorobenzene	50	46.1	92	70-130
120-82-1	1,2,4-Trichlorobenzene	50	48.4	97	70-130
71-55-6	1,1,1-Trichloroethane	50	49.2	98	70-130
79-00-5	1,1,2-Trichloroethane	50	46.2	92	70-130
79-01-6	Trichloroethene	50	46.7	93	70-130
75-69-4	Trichlorofluoromethane	50	51.7	103	70-130
96-18-4	1,2,3-Trichloropropane	50	49.1	98	70-130
95-63-6	1,2,4-Trimethylbenzene	50	45.8	92	70-130
108-67-8	1,3,5-Trimethylbenzene	50	45.4	91	70-130
108-05-4	Vinyl Acetate	50	48.8	98	70-130
75-01-4	Vinyl chloride	50	49.2	98	70-130
	m,p-Xylene	100	91.2	91	70-130
95-47-6	o-Xylene	50	43.5	87	70-130
1330-20-7	Xylene (total)	150	135	90	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC15892
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-BS	P66585.D	1	11/21/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-BS1	P66596.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	46.7	93	70-130
107-02-8	Acrolein	250	113	45* a	70-130
107-13-1	Acrylonitrile	50	47.4	95	70-130
71-43-2	Benzene	50	52.4	105	70-130
108-86-1	Bromobenzene	50	50.5	101	70-130
74-97-5	Bromochloromethane	50	52.0	104	70-130
75-27-4	Bromodichloromethane	50	54.1	108	70-130
75-25-2	Bromoform	50	47.5	95	70-130
74-83-9	Bromomethane	50	56.8	114	70-130
78-93-3	2-Butanone (MEK)	50	51.2	102	70-130
104-51-8	n-Butylbenzene	50	47.4	95	70-130
135-98-8	sec-Butylbenzene	50	47.0	94	70-130
98-06-6	tert-Butylbenzene	50	47.2	94	70-130
75-15-0	Carbon disulfide	50	52.3	105	70-130
56-23-5	Carbon tetrachloride	50	47.5	95	70-130
108-90-7	Chlorobenzene	50	46.4	93	70-130
75-00-3	Chloroethane	50	50.2	100	70-130
110-75-8	2-Chloroethyl vinyl ether	50	35.5	71	70-130
67-66-3	Chloroform	50	50.3	101	70-130
74-87-3	Chloromethane	50	56.6	113	70-130
95-49-8	o-Chlorotoluene	50	46.9	94	70-130
106-43-4	p-Chlorotoluene	50	48.5	97	70-130
124-48-1	Dibromochloromethane	50	50.2	100	70-130
95-50-1	1,2-Dichlorobenzene	50	47.2	94	70-130
541-73-1	1,3-Dichlorobenzene	50	47.1	94	70-130
106-46-7	1,4-Dichlorobenzene	50	49.4	99	70-130
75-71-8	Dichlorodifluoromethane	50	61.2	122	70-130
75-34-3	1,1-Dichloroethane	50	51.5	103	70-130
107-06-2	1,2-Dichloroethane	50	49.3	99	70-130
75-35-4	1,1-Dichloroethene	50	50.2	100	70-130
156-59-2	cis-1,2-Dichloroethene	50	47.9	96	70-130
156-60-5	trans-1,2-Dichloroethene	50	48.5	97	70-130
78-87-5	1,2-Dichloropropane	50	49.6	99	70-130
142-28-9	1,3-Dichloropropane	50	49.4	99	70-130
594-20-7	2,2-Dichloropropane	50	36.7	73	70-130
563-58-6	1,1-Dichloropropene	50	49.1	98	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-BS1	P66596.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	44.2	88	70-130
10061-02-6	trans-1,3-Dichloropropene	50	44.7	89	70-130
123-91-1	1,4-Dioxane	250	205	82	70-130
97-63-2	Ethyl methacrylate	50	45.5	91	77-137
100-41-4	Ethylbenzene	50	48.8	98	70-130
87-68-3	Hexachlorobutadiene	50	46.3	93	70-130
591-78-6	2-Hexanone	50	48.1	96	70-130
98-82-8	Isopropylbenzene	50	47.6	95	70-130
99-87-6	p-Isopropyltoluene	50	50.8	102	70-130
1634-04-4	Methyl Tert Butyl Ether	50	45.6	91	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.8	96	70-130
74-95-3	Methylene bromide	50	49.5	99	70-130
75-09-2	Methylene chloride	50	50.1	100	70-130
91-20-3	Naphthalene	50	45.4	91	70-130
103-65-1	n-Propylbenzene	50	47.1	94	70-130
100-42-5	Styrene	50	47.6	95	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	50.7	101	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.0	100	70-130
127-18-4	Tetrachloroethene	50	48.2	96	70-130
108-88-3	Toluene	50	49.3	99	70-130
87-61-6	1,2,3-Trichlorobenzene	50	45.6	91	70-130
120-82-1	1,2,4-Trichlorobenzene	50	48.5	97	70-130
71-55-6	1,1,1-Trichloroethane	50	48.9	98	70-130
79-00-5	1,1,2-Trichloroethane	50	48.7	97	70-130
79-01-6	Trichloroethene	50	48.7	97	70-130
75-69-4	Trichlorofluoromethane	50	53.0	106	70-130
96-18-4	1,2,3-Trichloropropane	50	48.8	98	70-130
95-63-6	1,2,4-Trimethylbenzene	50	48.5	97	70-130
108-67-8	1,3,5-Trimethylbenzene	50	47.9	96	70-130
108-05-4	Vinyl Acetate	50	34.5	69* a	70-130
75-01-4	Vinyl chloride	50	57.4	115	70-130
	m,p-Xylene	100	95.2	95	70-130
95-47-6	o-Xylene	50	46.3	93	70-130
1330-20-7	Xylene (total)	150	142	95	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC15892
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP2177-BS1	P66596.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	70-130%
2037-26-5	Toluene-D8	93%	70-130%
460-00-4	4-Bromofluorobenzene	94%	70-130%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15892

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC15896-41MS	P66614.D	1	11/22/12	TT	n/a	n/a	MSP2177
MC15896-41MSD	P66615.D	1	11/22/12	TT	n/a	n/a	MSP2177
MC15896-41	P66608.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1, MC15892-2

CAS No.	Compound	MC15896-41 Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q ug/l							
67-64-1	Acetone	ND	50	66.6	133* a	50	58.2	116	13	70-130/30
107-02-8	Acrolein	ND	250	123	49* a	250	87.0	35* a	34* b	70-130/30
107-13-1	Acrylonitrile	ND	50	54.7	109	50	52.1	104	5	70-130/30
71-43-2	Benzene	ND	50	61.9	124	50	56.9	114	8	70-130/30
108-86-1	Bromobenzene	ND	50	50.8	102	50	50.6	101	0	70-130/30
74-97-5	Bromochloromethane	ND	50	56.2	112	50	49.7	99	12	70-130/30
75-27-4	Bromodichloromethane	ND	50	59.4	119	50	57.5	115	3	70-130/30
75-25-2	Bromoform	ND	50	53.1	106	50	53.0	106	0	70-130/30
74-83-9	Bromomethane	ND	50	60.7	121	50	53.5	107	13	70-130/30
78-93-3	2-Butanone (MEK)	ND	50	57.9	116	50	56.6	113	2	70-130/30
104-51-8	n-Butylbenzene	ND	50	44.5	89	50	45.5	91	2	70-130/30
135-98-8	sec-Butylbenzene	ND	50	45.5	91	50	45.4	91	0	70-130/30
98-06-6	tert-Butylbenzene	ND	50	46.1	92	50	45.6	91	1	70-130/30
75-15-0	Carbon disulfide	0.99	J 50	59.3	117	50	57.8	114	3	70-130/30
56-23-5	Carbon tetrachloride	ND	50	54.0	108	50	54.4	109	1	70-130/30
108-90-7	Chlorobenzene	ND	50	48.6	97	50	47.7	95	2	70-130/30
75-00-3	Chloroethane	ND	50	55.4	111	50	53.5	107	3	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND	50	37.0	74	50	34.4	69* a	7	70-130/30
67-66-3	Chloroform	ND	50	55.7	111	50	52.6	105	6	70-130/30
74-87-3	Chloromethane	ND	50	55.7	111	50	54.0	108	3	70-130/30
95-49-8	o-Chlorotoluene	ND	50	46.7	93	50	46.1	92	1	70-130/30
106-43-4	p-Chlorotoluene	ND	50	48.1	96	50	47.8	96	1	70-130/30
124-48-1	Dibromochloromethane	ND	50	54.0	108	50	53.6	107	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND	50	47.2	94	50	47.9	96	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND	50	46.8	94	50	47.2	94	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND	50	48.8	98	50	49.5	99	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND	50	66.6	133* a	50	63.2	126	5	70-130/30
75-34-3	1,1-Dichloroethane	2.6	50	60.5	116	50	58.2	111	4	70-130/30
107-06-2	1,2-Dichloroethane	ND	50	54.1	108	50	51.4	103	5	70-130/30
75-35-4	1,1-Dichloroethene	2.8	50	59.4	113	50	57.7	110	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	4.0	50	56.2	104	50	54.1	100	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND	50	54.2	108	50	53.2	106	2	70-130/30
78-87-5	1,2-Dichloropropane	ND	50	53.9	108	50	51.8	104	4	70-130/30
142-28-9	1,3-Dichloropropane	ND	50	51.3	103	50	50.4	101	2	70-130/30
594-20-7	2,2-Dichloropropane	ND	50	42.6	85	50	40.7	81	5	70-130/30
563-58-6	1,1-Dichloropropene	ND	50	53.4	107	50	52.3	105	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC15896-41MS	P66614.D	1	11/22/12	TT	n/a	n/a	MSP2177
MC15896-41MSD	P66615.D	1	11/22/12	TT	n/a	n/a	MSP2177
MC15896-41	P66608.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1, MC15892-2

CAS No.	Compound	MC15896-41 Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q ug/l							
10061-01-5	cis-1,3-Dichloropropene	ND	50	49.2	98	50	47.5	95	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND	50	51.3	103	50	50.2	100	2	70-130/30
123-91-1	1,4-Dioxane	ND	250	361	144* a	250	240	96	40* b	70-130/30
97-63-2	Ethyl methacrylate	ND	50	56.1	112	50	56.8	114	1	72-139/30
100-41-4	Ethylbenzene	ND	50	55.1	110	50	52.6	105	5	70-130/30
87-68-3	Hexachlorobutadiene	ND	50	44.5	89	50	43.5	87	2	70-130/30
591-78-6	2-Hexanone	ND	50	49.7	99	50	51.9	104	4	70-130/30
98-82-8	Isopropylbenzene	ND	50	47.5	95	50	46.7	93	2	70-130/30
99-87-6	p-Isopropyltoluene	ND	50	49.1	98	50	49.7	99	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	50	41.5	83	50	37.4	75	10	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	54.1	108	50	53.8	108	1	70-130/30
74-95-3	Methylene bromide	ND	50	54.4	109	50	52.3	105	4	70-130/30
75-09-2	Methylene chloride	ND	50	54.9	110	50	52.5	105	4	70-130/30
91-20-3	Naphthalene	ND	50	48.3	97	50	53.3	107	10	70-130/30
103-65-1	n-Propylbenzene	ND	50	46.6	93	50	46.3	93	1	70-130/30
100-42-5	Styrene	ND	50	49.4	99	50	49.1	98	1	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	55.4	111	50	54.3	109	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	52.4	105	50	51.4	103	2	70-130/30
127-18-4	Tetrachloroethene	ND	50	52.8	106	50	51.6	103	2	70-130/30
108-88-3	Toluene	ND	50	53.9	108	50	52.2	104	3	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND	50	44.0	88	50	48.8	98	10	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND	50	45.2	90	50	50.2	100	10	70-130/30
71-55-6	1,1,1-Trichloroethane	ND	50	56.2	112	50	55.0	110	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND	50	53.4	107	50	51.7	103	3	70-130/30
79-01-6	Trichloroethene	2.7	50	56.6	108	50	55.0	105	3	70-130/30
75-69-4	Trichlorofluoromethane	ND	50	58.9	118	50	56.7	113	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND	50	53.3	107	50	53.4	107	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND	50	51.3	103	50	49.0	98	5	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND	50	47.6	95	50	47.0	94	1	70-130/30
108-05-4	Vinyl Acetate	ND	50	47.2	94	50	46.6	93	1	70-130/30
75-01-4	Vinyl chloride	ND	50	55.8	112	50	55.2	110	1	70-130/30
	m,p-Xylene	ND	100	106	106	100	103	103	3	70-130/30
95-47-6	o-Xylene	ND	50	48.1	96	50	47.5	95	1	70-130/30
1330-20-7	Xylene (total)	ND	150	154	103	150	150	100	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC15896-41MS	P66614.D	1	11/22/12	TT	n/a	n/a	MSP2177
MC15896-41MSD	P66615.D	1	11/22/12	TT	n/a	n/a	MSP2177
MC15896-41	P66608.D	1	11/22/12	TT	n/a	n/a	MSP2177

The QC reported here applies to the following samples:

Method: SW846 8260B

MC15892-1, MC15892-2

CAS No.	Surrogate Recoveries	MS	MSD	MC15896-41 Limits	
1868-53-7	Dibromofluoromethane	100%	96%	88%	70-130%
2037-26-5	Toluene-D8	100%	97%	88%	70-130%
460-00-4	4-Bromofluorobenzene	96%	93%	88%	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.

* = Outside of Control Limits.

Volatile Internal Standard Area Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSP2177-CC2177	Injection Date:	11/21/12
Lab File ID:	P66585.D	Injection Time:	14:02
Instrument ID:	GCMSP	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4		IS 5	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	1301042	8.51	1706299	9.36	752430	12.60	958701	15.16	218337	6.12
Upper Limit ^a	2602084	9.01	3412598	9.86	1504860	13.10	1917402	15.66	436674	6.62
Lower Limit ^b	650521	8.01	853150	8.86	376215	12.10	479351	14.66	109169	5.62

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
MSP2177-BS	1301042	8.51	1706299	9.36	752430	12.60	958701	15.16	218337	6.12
MSP2177-MB	1250402	8.51	1639991	9.37	706988	12.60	869582	15.16	193705	6.14
MC15892-2	1186815	8.51	1554013	9.37	673321	12.60	832195	15.16	177706	6.13
ZZZZZZ	1260685	8.51	1650569	9.37	714980	12.60	866327	15.16	156213	6.13
ZZZZZZ	1448173	8.51	1908131	9.37	838550	12.60	1033955	15.16	202693	6.13
ZZZZZZ	1252613	8.51	1667510	9.37	733423	12.60	894133	15.16	171940	6.13
ZZZZZZ	1266880	8.51	1680037	9.37	730742	12.61	898515	15.16	157912	6.14

- 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.

6.4.1
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Volatile Internal Standard Area Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSP2177-CC2177	Injection Date:	11/22/12
Lab File ID:	P66595.D	Injection Time:	06:39
Instrument ID:	GCMSP	Method:	SW846 8260B

	IS 1	RT	IS 2	RT	IS 3	RT	IS 4	RT	IS 5	RT
	AREA		AREA		AREA		AREA		AREA	
Check Std	1231578	8.51	1623191	9.37	713313	12.60	901324	15.16	116577	6.15
Upper Limit ^a	2463156	9.01	3246382	9.87	1426626	13.10	1802648	15.66	233154	6.65
Lower Limit ^b	615789	8.01	811596	8.87	356657	12.10	450662	14.66	58289	5.65

Lab	IS 1	RT	IS 2	RT	IS 3	RT	IS 4	RT	IS 5	RT
Sample ID	AREA		AREA		AREA		AREA		AREA	
MSP2177-BS1	1214013	8.51	1603061	9.37	703802	12.60	877594	15.16	150730	6.14
MSP2170-BS1	1214013	8.51	1603061	9.37	703802	12.60	877594	15.16	150730	6.14
MSP2177-MB1	1175547	8.51	1562274	9.37	676149	12.60	812200	15.16	146352	6.13
MSP2170-MB1	1175547	8.51	1562274	9.37	676149	12.60	812200	15.16	146352	6.13
MC15892-1 ^c	1219190	8.51	1627482	9.37	708865	12.60	859339	15.16	164011	6.13
ZZZZZZ	1291032	8.51	1716933	9.37	747563	12.60	912107	15.16	158301	6.13
ZZZZZZ	1109709	8.51	1483657	9.37	649446	12.61	797967	15.16	126201	6.16
ZZZZZZ	1064373	8.51	1406328	9.37	615931	12.61	761875	15.16	126985	6.15
ZZZZZZ	1190256	8.51	1587586	9.37	697337	12.60	847878	15.16	146548	6.15
ZZZZZZ	1266236	8.51	1691358	9.37	741746	12.60	896271	15.16	175102	6.15
ZZZZZZ	1152048	8.51	1544757	9.37	673113	12.61	833029	15.16	105771	6.16
ZZZZZZ	1294285	8.51	1727638	9.37	752904	12.61	935177	15.16	84553	6.16
MC15896-41	1193930	8.51	1596669	9.37	700604	12.61	862884	15.16	90625	6.16
ZZZZZZ	1198190	8.51	1591070	9.37	704037	12.60	869418	15.16	179079	6.14
ZZZZZZ	1242801	8.51	1657963	9.37	729739	12.60	913763	15.16	170859	6.15
ZZZZZZ	1166095	8.51	1561606	9.37	686338	12.60	851306	15.16	162795	6.13
ZZZZZZ	1172896	8.51	1559838	9.36	674660	12.60	865744	15.16	249976 ^d	6.13
ZZZZZZ	1411657	8.51	1856064	9.37	791614	12.60	1011663	15.16	291146 ^d	6.12
MC15896-41MS	1076137	8.51	1434244	9.37	652272	12.60	842023	15.16	162680	6.12
MC15896-41MSD	1127339	8.51	1493365	9.37	671430	12.60	876163	15.16	153906	6.13
MC15898-2MS	1050669	8.51	1399349	9.37	626698	12.60	802379	15.16	148680	6.13
MC15898-2MSD	1026648	8.51	1363794	9.37	610124	12.60	779874	15.16	141622	6.14
MC15898-2	1102562	8.51	1472448	9.37	631194	12.61	778348	15.16	136506	6.15
MC15892-1	1106458	8.51	1460348	9.37	638163	12.61	788489	15.16	153837	6.14

- 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) Confirmation run for surrogate recoveries.
- (d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Surrogate Recovery Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Method: SW846 8260B	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC15892-1	P66600.D	89	89	91
MC15892-1	P66619.D	97	97	142* a
MC15892-2	P66588.D	95	97	100
MC15896-41MS	P66614.D	100	100	96
MC15896-41MSD	P66615.D	96	97	93
MSP2177-BS	P66585.D	90	93	91
MSP2177-BS1	P66596.D	91	93	94
MSP2177-MB	P66587.D	91	93	95
MSP2177-MB1	P66599.D	92	93	96

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.

6.5.1
6

GC/MS Semi-volatiles

QC Data Summaries

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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: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31057-MB	F59465.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15892-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	10	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.40	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	0.38	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	0.37	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.5	ug/l	
95-48-7	2-Methylphenol	ND	10	0.60	ug/l	
	3&4-Methylphenol	ND	10	0.75	ug/l	
88-75-5	2-Nitrophenol	ND	10	0.47	ug/l	
100-02-7	4-Nitrophenol	ND	20	2.8	ug/l	
87-86-5	Pentachlorophenol	ND	10	1.3	ug/l	
108-95-2	Phenol	ND	5.0	0.93	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	0.35	ug/l	
62-53-3	Aniline	ND	10	2.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	0.33	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	0.27	ug/l	
100-51-6	Benzyl Alcohol	ND	10	0.26	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.25	ug/l	
106-47-8	4-Chloroaniline	ND	10	0.63	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.22	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.38	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.28	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	0.29	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	0.25	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	0.25	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	0.25	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.89	ug/l	
132-64-9	Dibenzofuran	ND	2.0	0.21	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.36	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.24	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.19	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.38	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.25	ug/l	

7.1.1
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Method Blank Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31057-MB	F59465.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15892-1

CAS No.	Compound	Result	RL	MDL	Units	Q
77-47-4	Hexachlorocyclopentadiene	ND	10	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.28	ug/l	
78-59-1	Isophorone	ND	5.0	0.32	ug/l	
88-74-4	2-Nitroaniline	ND	10	0.25	ug/l	
99-09-2	3-Nitroaniline	ND	10	0.25	ug/l	
100-01-6	4-Nitroaniline	ND	10	1.3	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	0.59	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	0.28	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.44	ug/l	
110-86-1	Pyridine	ND	10	0.46	ug/l	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	36%	15-110%
4165-62-2	Phenol-d5	25%	15-110%
118-79-6	2,4,6-Tribromophenol	67%	15-110%
4165-60-0	Nitrobenzene-d5	67%	30-130%
321-60-8	2-Fluorobiphenyl	61%	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	

7.1.1
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Method Blank Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31058-MB	I80098.D	1	11/20/12	NS	11/16/12	OP31058	MSI2984

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

MC15892-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.014	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.013	ug/l	
120-12-7	Anthracene	ND	0.10	0.018	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.030	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.017	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.024	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.059	ug/l	
218-01-9	Chrysene	ND	0.10	0.073	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.042	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.033	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.046	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.20	0.14	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.052	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.036	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	64%	15-110%
4165-60-0	Nitrobenzene-d5	65%	30-130%
321-60-8	2-Fluorobiphenyl	67%	30-130%
1718-51-0	Terphenyl-d14	83%	30-130%

7.1.2
7

Blank Spike Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31057-BS	W7066.D	1	11/19/12	KR	11/16/12	OP31057	MSW337

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15892-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	31.0	31	30-130
95-57-8	2-Chlorophenol	100	60.3	60	30-130
59-50-7	4-Chloro-3-methyl phenol	100	67.3	67	30-130
120-83-2	2,4-Dichlorophenol	100	66.3	66	30-130
105-67-9	2,4-Dimethylphenol	100	62.5	63	30-130
51-28-5	2,4-Dinitrophenol	100	67.5	68	30-130
534-52-1	4,6-Dinitro-o-cresol	100	80.1	80	30-130
95-48-7	2-Methylphenol	100	55.2	55	30-130
	3&4-Methylphenol	200	103	52	30-130
88-75-5	2-Nitrophenol	100	70.0	70	30-130
100-02-7	4-Nitrophenol	100	39.0	39	30-130
87-86-5	Pentachlorophenol	100	73.9	74	30-130
108-95-2	Phenol	100	30.9	31	30-130
95-95-4	2,4,5-Trichlorophenol	100	70.2	70	30-130
88-06-2	2,4,6-Trichlorophenol	100	69.7	70	30-130
62-53-3	Aniline	50	18.3	37* a	40-140
101-55-3	4-Bromophenyl phenyl ether	50	36.3	73	40-140
85-68-7	Butyl benzyl phthalate	50	44.0	88	40-140
100-51-6	Benzyl Alcohol	50	30.7	61	40-140
91-58-7	2-Chloronaphthalene	50	67.8	136	40-140
106-47-8	4-Chloroaniline	50	24.8	50	40-140
111-91-1	bis(2-Chloroethoxy)methane	50	32.7	65	40-140
111-44-4	bis(2-Chloroethyl)ether	50	36.1	72	40-140
108-60-1	bis(2-Chloroisopropyl)ether	50	42.3	85	40-140
7005-72-3	4-Chlorophenyl phenyl ether	50	34.2	68	40-140
122-66-7	1,2-Diphenylhydrazine	50	41.2	82	40-140
121-14-2	2,4-Dinitrotoluene	100	77.5	78	40-140
606-20-2	2,6-Dinitrotoluene	100	78.0	78	40-140
91-94-1	3,3'-Dichlorobenzidine	50	27.2	54	40-140
132-64-9	Dibenzofuran	50	35.5	71	40-140
84-74-2	Di-n-butyl phthalate	50	42.0	84	40-140
117-84-0	Di-n-octyl phthalate	50	45.5	91	40-140
84-66-2	Diethyl phthalate	50	39.9	80	40-140
131-11-3	Dimethyl phthalate	50	37.8	76	40-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.5	89	40-140
118-74-1	Hexachlorobenzene	100	80.8	81	40-140

* = Outside of Control Limits.

7.2.1
7

Blank Spike Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31057-BS	W7066.D	1	11/19/12	KR	11/16/12	OP31057	MSW337

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15892-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
77-47-4	Hexachlorocyclopentadiene	50	51.6	103	40-140
67-72-1	Hexachloroethane	100	50.0	50	40-140
78-59-1	Isophorone	100	73.8	74	40-140
88-74-4	2-Nitroaniline	50	40.8	82	40-140
99-09-2	3-Nitroaniline	50	31.8	64	40-140
100-01-6	4-Nitroaniline	50	36.9	74	40-140
98-95-3	Nitrobenzene	100	71.3	71	40-140
62-75-9	n-Nitrosodimethylamine	50	24.2	48	40-140
621-64-7	N-Nitroso-di-n-propylamine	50	40.2	80	40-140
86-30-6	N-Nitrosodiphenylamine	50	39.3	79	40-140
110-86-1	Pyridine	50	13.1	26* a	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	41%	15-110%
4165-62-2	Phenol-d5	30%	15-110%
118-79-6	2,4,6-Tribromophenol	76%	15-110%
4165-60-0	Nitrobenzene-d5	71%	30-130%
321-60-8	2-Fluorobiphenyl	64%	30-130%
1718-51-0	Terphenyl-d14	89%	30-130%

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

* = Outside of Control Limits.

7.2.1
7

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31058-BS	I80099.D	1	11/20/12	NS	11/16/12	OP31058	MSI2984
OP31058-BSD	I80102.D	1	11/20/12	NS	11/16/12	OP31058	MSI2984

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

MC15892-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	35.9	72	41.8	84	15	40-140/30
208-96-8	Acenaphthylene	50	27.3	55	32.3	65	17	40-140/30
120-12-7	Anthracene	50	36.1	72	42.3	85	16	40-140/30
56-55-3	Benzo(a)anthracene	50	40.0	80	47.3	95	17	40-140/30
50-32-8	Benzo(a)pyrene	50	30.9	62	39.0	78	23	40-140/30
205-99-2	Benzo(b)fluoranthene	50	34.7	69	39.8	80	14	40-140/30
191-24-2	Benzo(g,h,i)perylene	50	32.4	65	40.9	82	23	40-140/30
207-08-9	Benzo(k)fluoranthene	50	37.8	76	47.5	95	23	40-140/30
218-01-9	Chrysene	50	35.5	71	42.3	85	17	40-140/30
53-70-3	Dibenzo(a,h)anthracene	50	36.1	72	43.5	87	19	40-140/30
206-44-0	Fluoranthene	50	37.1	74	43.5	87	16	40-140/30
86-73-7	Fluorene	50	37.2	74	42.7	85	14	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	34.3	69	42.2	84	21	40-140/30
90-12-0	1-Methylnaphthalene	50	35.1	70	41.9	84	18	40-140/30
91-57-6	2-Methylnaphthalene	50	35.1	70	41.6	83	17	40-140/30
85-01-8	Phenanthrene	50	37.3	75	43.5	87	15	40-140/30
129-00-0	Pyrene	50	35.5	71	42.1	84	17	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	31%		15-110%
118-79-6	2,4,6-Tribromophenol	70%		15-110%
4165-60-0	Nitrobenzene-d5	67%	77%	30-130%
321-60-8	2-Fluorobiphenyl	67%	81%	30-130%
1718-51-0	Terphenyl-d14	80%	99%	30-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31057-MS	F59467.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804
OP31057-MSD	F59468.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804
MC16698-11	F59469.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15892-1

CAS No.	Compound	MC16698-11 Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
65-85-0	Benzoic Acid	ND	120	43.0	36	111	44.0	40	2	30-130/20
95-57-8	2-Chlorophenol	ND	120	79.2	66	111	72.0	65	10	30-130/20
59-50-7	4-Chloro-3-methyl phenol	ND	120	83.2	69	111	78.3	70	6	30-130/20
120-83-2	2,4-Dichlorophenol	ND	120	83.7	69	111	77.0	69	8	30-130/20
105-67-9	2,4-Dimethylphenol	ND	120	75.8	63	111	69.8	63	8	30-130/20
51-28-5	2,4-Dinitrophenol	ND	120	86.0	71	111	82.0	74	5	30-130/20
534-52-1	4,6-Dinitro-o-cresol	ND	120	85.8	71	111	80.3	72	7	30-130/20
95-48-7	2-Methylphenol	ND	120	71.1	59	111	65.8	59	8	30-130/20
	3&4-Methylphenol	ND	241	135	56	222	124	56	8	30-130/20
88-75-5	2-Nitrophenol	ND	120	87.6	73	111	81.8	74	7	30-130/20
100-02-7	4-Nitrophenol	ND	120	45.9	38	111	43.0	39	7	30-130/20
87-86-5	Pentachlorophenol	ND	120	91.1	76	111	86.3	78	5	30-130/20
108-95-2	Phenol	ND	120	40.5	34	111	37.4	34	8	30-130/20
95-95-4	2,4,5-Trichlorophenol	ND	120	89.6	74	111	83.7	75	7	30-130/20
88-06-2	2,4,6-Trichlorophenol	ND	120	85.9	71	111	81.9	74	5	30-130/20
62-53-3	Aniline	ND	60.2	29.1	48	55.6	27.7	50	5	40-140/20
101-55-3	4-Bromophenyl phenyl ether	ND	60.2	43.2	72	55.6	41.1	74	5	40-140/20
85-68-7	Butyl benzyl phthalate	ND	60.2	46.3	77	55.6	43.2	78	7	40-140/20
100-51-6	Benzyl Alcohol	ND	60.2	39.7	66	55.6	36.4	66	9	40-140/20
91-58-7	2-Chloronaphthalene	ND	60.2	43.4	72	55.6	39.9	72	8	40-140/20
106-47-8	4-Chloroaniline	ND	60.2	23.7	39* a	55.6	22.1	40	7	40-140/20
111-91-1	bis(2-Chloroethoxy)methane	ND	60.2	38.9	65	55.6	35.2	63	10	40-140/20
111-44-4	bis(2-Chloroethyl)ether	ND	60.2	43.8	73	55.6	39.6	71	10	40-140/20
108-60-1	bis(2-Chloroisopropyl)ether	ND	60.2	49.9	83	55.6	45.3	82	10	40-140/20
7005-72-3	4-Chlorophenyl phenyl ether	ND	60.2	41.9	70	55.6	39.2	71	7	40-140/20
122-66-7	1,2-Diphenylhydrazine	ND	60.2	43.9	73	55.6	41.2	74	6	40-140/20
121-14-2	2,4-Dinitrotoluene	ND	60.2	45.9	76	55.6	41.3	74	11	40-140/20
606-20-2	2,6-Dinitrotoluene	ND	60.2	44.2	73	55.6	42.0	76	5	40-140/20
91-94-1	3,3'-Dichlorobenzidine	ND	60.2	21.9	36* a	55.6	18.0	32* a	20	40-140/20
132-64-9	Dibenzofuran	ND	60.2	41.6	69	55.6	38.9	70	7	40-140/20
84-74-2	Di-n-butyl phthalate	ND	60.2	44.0	73	55.6	41.3	74	6	40-140/20
117-84-0	Di-n-octyl phthalate	ND	60.2	42.8	71	55.6	40.4	73	6	40-140/20
84-66-2	Diethyl phthalate	ND	60.2	44.1	73	55.6	40.5	73	9	40-140/20
131-11-3	Dimethyl phthalate	ND	60.2	43.5	72	55.6	40.1	72	8	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND	60.2	44.0	73	55.6	41.4	75	6	40-140/20
118-74-1	Hexachlorobenzene	ND	60.2	42.7	71	55.6	40.0	72	7	40-140/20

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31057-MS	F59467.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804
OP31057-MSD	F59468.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804
MC16698-11	F59469.D	1	11/20/12	KR	11/16/12	OP31057	MSF2804

The QC reported here applies to the following samples:

Method: SW846 8270C

MC15892-1

CAS No.	Compound	MC16698-11 Spike		MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q ug/l	ug/l	%	ug/l	ug/l	%		Rec/RPD
77-47-4	Hexachlorocyclopentadiene	ND	60.2	34.2	57	55.6	30.9	56	10	40-140/20
67-72-1	Hexachloroethane	ND	60.2	39.4	65	55.6	34.0	61	15	40-140/20
78-59-1	Isophorone	ND	60.2	45.0	75	55.6	41.2	74	9	40-140/20
88-74-4	2-Nitroaniline	ND	60.2	46.1	77	55.6	42.7	77	8	40-140/20
99-09-2	3-Nitroaniline	ND	60.2	27.2	45	55.6	24.8	45	9	40-140/20
100-01-6	4-Nitroaniline	ND	60.2	38.8	64	55.6	34.6	62	11	40-140/20
98-95-3	Nitrobenzene	ND	60.2	45.1	75	55.6	41.2	74	9	40-140/20
62-75-9	n-Nitrosodimethylamine	ND	60.2	33.4	55	55.6	30.4	55	9	40-140/20
621-64-7	N-Nitroso-di-n-propylamine	ND	60.2	49.5	82	55.6	44.0	79	12	40-140/20
86-30-6	N-Nitrosodiphenylamine	ND	60.2	44.3	74	55.6	41.7	75	6	40-140/20
110-86-1	Pyridine	ND	60.2	28.0	46	55.6	26.6	48	5	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC16698-11 Limits	
367-12-4	2-Fluorophenol	45%	46%	40%	15-110%
4165-62-2	Phenol-d5	33%	33%	27%	15-110%
118-79-6	2,4,6-Tribromophenol	76%	77%	73%	15-110%
4165-60-0	Nitrobenzene-d5	73%	73%	71%	30-130%
321-60-8	2-Fluorobiphenyl	66%	66%	64%	30-130%
1718-51-0	Terphenyl-d14	55%	58%	81%	30-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

7.4.1
 7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31058-MS	I80100.D	1	11/20/12	NS	11/16/12	OP31058	MSI2984
OP31058-MSD	I80101.D	1	11/20/12	NS	11/16/12	OP31058	MSI2984
MC15873-1F	I80103.D	1	11/20/12	NS	11/16/12	OP31058	MSI2984

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

MC15892-1

CAS No.	Compound	MC15873-1FSpike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
83-32-9	Acenaphthene	ND	60.2	46.4	77	55.6	43.7	79	6	40-140/20
208-96-8	Acenaphthylene	ND	60.2	35.9	60	55.6	34.0	61	5	40-140/20
120-12-7	Anthracene	ND	60.2	47.0	78	55.6	42.9	77	9	40-140/20
56-55-3	Benzo(a)anthracene	ND	60.2	48.1	80	55.6	44.8	80	7	40-140/20
50-32-8	Benzo(a)pyrene	ND	60.2	37.1	62	55.6	34.8	63	6	40-140/20
205-99-2	Benzo(b)fluoranthene	0.051	60.2	40.8	68	55.6	38.5	69	6	40-140/20
191-24-2	Benzo(g,h,i)perylene	ND	60.2	39.4	65	55.6	36.5	66	8	40-140/20
207-08-9	Benzo(k)fluoranthene	ND	60.2	43.5	72	55.6	40.6	73	7	40-140/20
218-01-9	Chrysene	ND	60.2	41.7	69	55.6	39.3	71	6	40-140/20
53-70-3	Dibenzo(a,h)anthracene	ND	60.2	41.9	70	55.6	39.0	70	7	40-140/20
206-44-0	Fluoranthene	0.094	60.2	46.5	77	55.6	43.9	79	6	40-140/20
86-73-7	Fluorene	ND	60.2	47.6	79	55.6	44.4	80	7	40-140/20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	60.2	40.6	67	55.6	37.6	68	8	40-140/20
90-12-0	1-Methylnaphthalene	ND	60.2	47.1	78	55.6	42.5	77	10	40-140/20
91-57-6	2-Methylnaphthalene	ND	60.2	47.3	79	55.6	42.7	77	10	40-140/20
85-01-8	Phenanthrene	ND	60.2	47.7	79	55.6	44.1	79	8	40-140/20
129-00-0	Pyrene	0.064	60.2	44.6	74	55.6	41.6	75	7	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	MC15873-1FLimits	
367-12-4	2-Fluorophenol	43%	44%		15-110%
4165-62-2	Phenol-d5	34%	35%		15-110%
118-79-6	2,4,6-Tribromophenol	75%	78%		15-110%
4165-60-0	Nitrobenzene-d5	73%	72%	68%	30-130%
321-60-8	2-Fluorobiphenyl	72%	73%	68%	30-130%
1718-51-0	Terphenyl-d14	57%	59%	86%	30-130%

* = Outside of Control Limits.

7.4.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSF2804-CC2795	Injection Date:	11/20/12
Lab File ID:	F59463.D	Injection Time:	08:17
Instrument ID:	GCMSF	Method:	SW846 8270C

	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	152631	4.21	533227	5.20	357468	6.63	701702	8.00	774104	10.76	787592	12.23
Upper Limit ^a	305262	4.71	1066454	5.70	714936	7.13	1403404	8.50	1548208	11.26	1575184	12.73
Lower Limit ^b	76316	3.71	266614	4.70	178734	6.13	350851	7.50	387052	10.26	393796	11.73

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
OP31057-MB	183902	4.21	658225	5.20	442242	6.63	864424	8.01	969307	10.76	982006	12.23
OP31057-MS	181481	4.22	649522	5.20	433914	6.63	839415	8.01	916760	10.76	891193	12.24
OP31057-MSD	202819	4.21	716507	5.20	476233	6.63	910158	8.01	982069	10.76	964815	12.23
MC16698-11	182867	4.21	666513	5.20	449796	6.63	851636	8.00	949599	10.76	971697	12.23
ZZZZZZ	205617	4.21	751851	5.20	495256	6.63	937026	8.01	1013613	10.76	1025984	12.24
ZZZZZZ	184644	4.21	651500	5.20	440946	6.63	853798	8.01	938607	10.76	960613	12.23
OP31039-MB	169413	4.21	620162	5.20	409373	6.63	790000	8.00	866620	10.76	874081	12.23
OP31039-MB	168714	4.21	618363	5.20	409506	6.63	790000	8.00	866353	10.76	874081	12.23
OP31039-BS	196286	4.22	684047	5.20	456372	6.63	891343	8.01	953586	10.76	919308	12.24
OP31039-BS	196286	4.22	684047	5.20	455775	6.63	891463	8.01	953414	10.76	919308	12.24
OP31039-BSD	178279	4.21	628187	5.20	411119	6.63	795340	8.01	852897	10.76	831790	12.23
OP31039-BSD	178279	4.21	628316	5.20	410298	6.63	795340	8.01	852897	10.76	830957	12.23
OP31039-MS	157883	4.21	560150	5.20	369731	6.63	712352	8.01	774495	10.76	775687	12.23
OP31039-MS	157697	4.21	560833	5.20	369419	6.63	712352	8.01	774334	10.76	775487	12.23
OP31039-MSD	149526	4.21	533117	5.20	355648	6.63	688576	8.01	746390	10.76	759142	12.23
OP31039-MSD	149526	4.21	532711	5.20	354609	6.63	688576	8.01	747016	10.76	757258	12.23
MC15722-2	147824	4.21	525107	5.20	346857	6.63	665931	8.00	729074	10.76	772866	12.23
MC15722-2	147824	4.21	524174	5.20	345106	6.63	665840	8.00	730476	10.76	772866	12.23

- 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.

7.5.1
7

Semivolatile Internal Standard Area Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSF2828-CC2795	Injection Date:	12/05/12
Lab File ID:	F59957.D	Injection Time:	11:34
Instrument ID:	GCMSF	Method:	SW846 8270C

	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	167119	4.14	582379	5.13	395226	6.56	770842	7.92	840162	10.69	846317	12.15
Upper Limit ^a	334238	4.64	1164758	5.63	790452	7.06	1541684	8.42	1680324	11.19	1692634	12.65
Lower Limit ^b	83560	3.64	291190	4.63	197613	6.06	385421	7.42	420081	10.19	423159	11.65

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
MC15892-1	148241	4.14	529602	5.13	348177	6.55	657093	7.92	719004	10.68	766552	12.16
ZZZZZZ	134889	4.14	481220	5.13	323721	6.55	636289	7.92	722079	10.68	731128	12.15
ZZZZZZ	281241	4.14	996017	5.13	692851	6.55	1336443	7.92	1503952	10.69	1553746	12.16
OP31267-MB	132114	4.14	471327	5.13	314198	6.55	608014	7.92	689504	10.68	709601	12.15
OP31267-BS	144300	4.14	515935	5.13	345002	6.55	653053	7.92	711820	10.69	718170	12.16
OP31267-BSD	146237	4.14	518874	5.13	340811	6.56	668892	7.92	736169	10.69	756920	12.16
OP31267-MS	137592	4.14	491475	5.13	327235	6.56	641456	7.93	729158	10.69	751232	12.16
OP31267-MSD	152298	4.14	536852	5.13	353167	6.56	669916	7.92	737736	10.69	736639	12.16
OP31174-BS	144836	4.14	517341	5.13	338500	6.56	639148	7.92	678761	10.68	666311	12.16
MC16400-7	140174	4.14	494027	5.12	336829	6.56	641653	7.92	704847	10.68	739657	12.16
OP31290-MB	177176	4.14	644865	5.13	420781	6.55	802774	7.92	828596	10.68	812413	12.16
OP31290-BS	161088	4.14	572771	5.13	378549	6.55	732528	7.92	786723	10.69	762946	12.16
ZZZZZZ	150167	4.14	534576	5.12	353966	6.56	668056	7.92	719855	10.68	750569	12.16
ZZZZZZ	147384	4.14	512974	5.13	332965	6.55	637048	7.92	703180	10.68	739808	12.15
ZZZZZZ	154581	4.14	554522	5.12	363454	6.56	685535	7.92	730981	10.69	751825	12.15
OP31290-MS	168647	4.14	597804	5.12	392379	6.56	748770	7.93	782368	10.69	760906	12.16
OP31290-MSD	173435	4.14	607490	5.13	407463	6.56	766202	7.92	807921	10.69	790694	12.16
MC16395-2	157445	4.14	559252	5.13	369100	6.56	690812	7.92	740843	10.69	744650	12.15
ZZZZZZ	180366	4.14	626452	5.13	407716	6.56	714848	7.93	748166	10.69	756672	12.16
ZZZZZZ	167961	4.14	615526	5.12	397915	6.56	745053	7.92	762995	10.68	771522	12.16
ZZZZZZ	178890	4.14	649604	5.12	425046	6.56	788301	7.93	786724	10.68	794518	12.16
ZZZZZZ	152576	4.14	551072	5.12	354385	6.56	653333	7.93	723461	10.68	791147	12.16
ZZZZZZ	158547	4.14	571872	5.13	383421	6.55	716843	7.92	789412	10.68	829507	12.16
ZZZZZZ	139345	4.14	517959	5.13	349121	6.55	672193	7.92	767234	10.68	817215	12.16
ZZZZZZ	152174	4.14	556073	5.13	369456	6.55	712969	7.92	811067	10.69	868285	12.16
ZZZZZZ	153186	4.14	547644	5.13	371132	6.55	747476	7.92	849324	10.68	900855	12.16
ZZZZZZ	139144	4.14	506094	5.13	342513	6.56	646360	7.92	781903	10.69	838018	12.16
ZZZZZZ	149248	4.15	536681	5.14	358878	6.56	685786	7.92	794252	10.68	852835	12.16
ZZZZZZ	149276	4.14	530313	5.13	366160	6.55	723833	7.92	839805	10.68	888244	12.16
ZZZZZZ	150310	4.14	542453	5.12	366761	6.56	705768	7.92	817313	10.69	881854	12.15
MC16500-3	136234	4.14	502132	5.12	342491	6.55	660090	7.92	764881	10.68	826140	12.16

IS 1 = 1,4-Dichlorobenzene-d4
 IS 2 = Naphthalene-d8
 IS 3 = Acenaphthene-D10

7.5.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC15892
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSF2828-CC2795	Injection Date:	12/05/12
Lab File ID:	F59957.D	Injection Time:	11:34
Instrument ID:	GCMSF	Method:	SW846 8270C

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

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.

7.5.2
7

Semivolatile Internal Standard Area Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSI2984-CC2981	Injection Date:	11/20/12
Lab File ID:	I80093.D	Injection Time:	09:04
Instrument ID:	GCMSI	Method:	SW846 8270C 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	423489	3.85	1180485	4.82	595299	6.23	997472	7.54	786764	10.28	1569630	11.71
Upper Limit ^a	846978	4.35	2360970	5.32	1190598	6.73	1994944	8.04	1573528	10.78	3139260	12.21
Lower Limit ^b	211745	3.35	590243	4.32	297650	5.73	498736	7.04	393382	9.78	784815	11.21

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
ZZZZZZ	642974	3.85	1733202	4.82	893889	6.23	1472483	7.54	1155574	10.28	2291809	11.71
OP31058-MB	497702	3.85	1366201	4.82	709163	6.23	1176195	7.54	947015	10.28	1908588	11.71
OP31059-MB	497702	3.85	1366201	4.82	709163	6.23	1176195	7.54	947015	10.28	1908588	11.71
OP31058-BS	536852	3.85	1485278	4.82	748138	6.23	1252228	7.54	957525	10.28	1492337	11.71
OP31059-BS	536852	3.85	1485278	4.82	748138	6.23	1252228	7.54	957525	10.28	1492337	11.71
OP31058-MS	504904	3.85	1372470	4.82	697287	6.23	1157101	7.54	879783	10.28	1693945	11.71
OP31058-MSD	524479	3.85	1435572	4.82	723123	6.23	1202216	7.54	916595	10.28	1751583	11.71
OP31058-BSD	443260	3.85	1216521	4.82	618233	6.23	1023823	7.54	790761	10.28	1560800	11.71
MC15873-1F	469175	3.85	1288313	4.82	671504	6.23	1121363	7.54	871797	10.28	1745753	11.71
ZZZZZZ	503680	3.85	1395770	4.82	727961	6.23	1205090	7.54	944991	10.28	1891481	11.71
MC15892-1	434554	3.85	1198519	4.82	613327	6.23	1016209	7.54	794024	10.28	1607751	11.71
ZZZZZZ	408954	3.85	1122894	4.82	579328	6.23	966306	7.54	745024	10.28	1505602	11.71
ZZZZZZ	464368	3.85	1257337	4.82	649375	6.23	1072319	7.54	830544	10.28	1691403	11.71

- 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.

7.5.3

7

Semivolatile Internal Standard Area Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSW337-CC318	Injection Date:	11/19/12
Lab File ID:	W7060.D	Injection Time:	16:20
Instrument ID:	GCMSW	Method:	SW846 8270C

	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	99160	4.09	402023	5.08	225366	6.51	389296	7.88	426178	10.82	397517	12.40
Upper Limit ^a	198320	4.59	804046	5.58	450732	7.01	778592	8.38	852356	11.32	795034	12.90
Lower Limit ^b	49580	3.59	201012	4.58	112683	6.01	194648	7.38	213089	10.32	198759	11.90

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
OP31080-MB	128829	4.09	511194	5.08	287314	6.51	489776	7.88	525112	10.82	492783	12.40
OP31080-BS	115484	4.09	466591	5.08	263188	6.51	438498	7.88	477740	10.82	432353	12.40
ZZZZZZ	118474	4.09	468207	5.08	265404	6.51	451596	7.88	488849	10.82	464303	12.40
OP31045-MB	100514	4.09	399390	5.08	227856	6.51	388153	7.88	421576	10.82	401969	12.40
OP31057-BS	108309	4.09	425379	5.08	240109	6.51	402591	7.88	436479	10.82	394937	12.40
OP31045-BS	108309	4.09	425379	5.08	240109	6.51	402591	7.88	436479	10.82	394937	12.40
OP31045-MS	104140	4.09	416009	5.08	233325	6.51	402074	7.88	446986	10.82	170379 ^c	12.40
OP31045-MSD	103142	4.09	418225	5.08	233765	6.51	395333	7.88	432036	10.82	395345	12.40
MC15914-18	97590	4.09	391257	5.07	221086	6.51	376801	7.88	410269	10.82	389336	12.40
ZZZZZZ	98652	4.09	395319	5.08	261770	6.52	453909	7.90	456404	10.82	425202	12.40
ZZZZZZ	105681	4.09	426971	5.08	242383	6.51	413342	7.88	451988	10.82	425104	12.40
ZZZZZZ	100645	4.09	401105	5.07	227753	6.51	391639	7.88	420058	10.82	403138	12.40
ZZZZZZ	109440	4.09	436946	5.08	253648	6.51	440292	7.88	474469	10.82	430526	12.40
ZZZZZZ	102194	4.09	400707	5.08	229362	6.51	394121	7.88	425398	10.82	415438	12.40
ZZZZZZ	101522	4.09	405934	5.08	231151	6.51	394749	7.88	435583	10.82	412514	12.40
OP31055-MS	143574	4.09	567537	5.08	322867	6.52	552855	7.89	599468	10.82	406311	12.40
OP31055-MSD	138497	4.09	559133	5.08	316561	6.52	541467	7.89	589143	10.82	415947	12.40
MC15664-1	144048	4.09	581553	5.08	331115	6.51	583771	7.89	629266	10.82	434412	12.40
ZZZZZZ	150191	4.09	591579	5.08	340691	6.51	598187	7.88	646868	10.82	428080	12.40
OP31066-MS	103986	4.09	420791	5.08	241538	6.51	411643	7.88	446072	10.82	425970	12.40
OP31066-MSD	105335	4.09	426279	5.08	244534	6.51	422828	7.88	453874	10.82	434703	12.40
MC15751-1	106405	4.09	430912	5.08	244264	6.51	426277	7.88	459129	10.82	439034	12.40
ZZZZZZ	116163	4.09	476105	5.08	348304	6.53	632723	7.91	531714	10.83	496221	12.40
ZZZZZZ	130331	4.09	546079	5.09	365552	6.54	707934	7.92	562365	10.83	514804	12.40
ZZZZZZ	127582	4.09	522874	5.09	364886	6.54	673328	7.91	539824	10.83	501445	12.40
ZZZZZZ	124962	4.09	500867	5.08	469250*	6.53	710980	7.91	611183	10.83	537738	12.41
ZZZZZZ	132547	4.09	534629	5.09	338344	6.54	515655	7.94	663160	10.84	560862	12.41

- 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

7.5.4
7

Semivolatile Internal Standard Area Summary

Job Number: MC15892
Account: SHELLWIC Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSW337-CC318	Injection Date:	11/19/12
Lab File ID:	W7060.D	Injection Time:	16:20
Instrument ID:	GCMSW	Method:	SW846 8270C

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.

7.5.4
7

Semivolatile Surrogate Recovery Summary

Job Number: MC15892

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Method: SW846 8270C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC15892-1	F59958.D	42	29	85	76	69	55
OP31057-BS	W7066.D	41	30	76	71	64	89
OP31057-MB	F59465.D	36	25	67	67	61	77
OP31057-MS	F59467.D	45	33	76	73	66	55
OP31057-MSD	F59468.D	46	33	77	73	66	58

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%

7.6.1

7

Semivolatile Surrogate Recovery Summary

Job Number: MC15892

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Method: SW846 8270C BY SIM

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
MC15892-1	I80105.D	41	28	84	72	75	59
OP31058-BS	I80099.D	39	31	70	67	67	80
OP31058-BSD	I80102.D				77	81	99
OP31058-MB	I80098.D	35	25	64	65	67	83
OP31058-MS	I80100.D	43	34	75	73	72	57
OP31058-MSD	I80101.D	44	35	78	72	73	59

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%

7.6.2
7

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: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31006-MB	BK18830.D	1	11/13/12	AP	11/12/12	OP31006	GBK686

The QC reported here applies to the following samples:

Method: SW846 8011

MC15892-1, MC15892-3

CAS No.	Compound	Result	RL	MDL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.015	0.013	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.015	0.010	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	Bromofluorobenzene (S)	102% 36-173%
460-00-4	Bromofluorobenzene (S)	92% 36-173%

8.1.1
8

Blank Spike Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31006-BS	BK18831.D	1	11/13/12	AP	11/12/12	OP31006	GBK686

The QC reported here applies to the following samples:

Method: SW846 8011

MC15892-1, MC15892-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
96-12-8	1,2-Dibromo-3-chloropropane	0.071	0.071	100	60-140
106-93-4	1,2-Dibromoethane	0.071	0.076	107	60-140

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	Bromofluorobenzene (S)	109%	36-173%
460-00-4	Bromofluorobenzene (S)	98%	36-173%

8.2.1
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31006-MS	BK18832.D	1	11/13/12	AP	11/12/12	OP31006	GBK686
OP31006-MSD	BK18833.D	1	11/13/12	AP	11/12/12	OP31006	GBK686
MC15914-9	BK18834.D	1	11/13/12	AP	11/12/12	OP31006	GBK686

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

MC15892-1, MC15892-3

CAS No.	Compound	MC15914-9 ug/l	Spike Q 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	0.071	100	0.071	0.069	97	3	64-141/29
106-93-4	1,2-Dibromoethane	ND	0.071	0.075	106	0.071	0.073	103	3	63-163/27

CAS No.	Surrogate Recoveries	MS	MSD	MC15914-9	Limits
460-00-4	Bromofluorobenzene (S)	107%	107%	113%	36-173%
460-00-4	Bromofluorobenzene (S)	98%	97%	100%	36-173%

8.3.1
8

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC15892

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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
MC15892-1	BK18854.D	196* ^c	193* ^c
MC15892-3	BK18855.D	105	92
OP31006-BS	BK18831.D	109	98
OP31006-MB	BK18830.D	102	92
OP31006-MS	BK18832.D	107	98
OP31006-MSD	BK18833.D	107	97

Surrogate Compounds Recovery Limits

S1 = Bromofluorobenzene (S) 36-173%

- (a) Recovery from GC signal #2
- (b) Recovery from GC signal #1
- (c) Outside control limits. Sample is non-detect for target analytes.

GC Surrogate Retention Time Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	GBK686-CC686	Injection Date:	11/13/12
Lab File ID:	BK18826.D	Injection Time:	19:51
Instrument ID:	GCBK	Method:	SW846 8011

S1^a S1^b
 RT RT

Check Std	4.61	4.93
-----------	------	------

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 ^a RT	S1 ^b RT
ZZZZZZ	BK18827.D	11/13/12	20:16	4.61	4.93
ZZZZZZ	BK18828.D	11/13/12	20:40	4.61	4.93
ZZZZZZ	BK18829.D	11/13/12	21:05	4.61	4.93
OP31006-MB	BK18830.D	11/13/12	21:29	4.61	4.93
OP31006-BS	BK18831.D	11/13/12	21:53	4.61	4.93
OP31006-MS	BK18832.D	11/13/12	22:18	4.61	4.93
OP31006-MSD	BK18833.D	11/13/12	22:42	4.61	4.93
MC15914-9	BK18834.D	11/13/12	23:06	4.61	4.93
ZZZZZZ	BK18835.D	11/13/12	23:31	4.61	4.93
ZZZZZZ	BK18836.D	11/13/12	23:55	4.61	4.93

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

8.5.1
8

GC Surrogate Retention Time Summary

Job Number: MC15892
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	GBK686-CC686	Injection Date:	11/14/12
Lab File ID:	BK18848.D	Injection Time:	04:48
Instrument ID:	GCBK	Method:	SW846 8011

S1^a S1^b
 RT RT

Check Std	4.61	4.93
-----------	------	------

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 ^a RT	S1 ^b RT
ZZZZZZ	BK18849.D	11/14/12	05:12	4.61	4.93
ZZZZZZ	BK18850.D	11/14/12	05:36	4.61	4.93
ZZZZZZ	BK18851.D	11/14/12	06:00	4.61	4.93
ZZZZZZ	BK18852.D	11/14/12	06:24	4.61	4.93
ZZZZZZ	BK18853.D	11/14/12	06:48	4.61	4.93
MC15892-1	BK18854.D	11/14/12	07:12	4.61	4.93
MC15892-3	BK18855.D	11/14/12	07:36	4.61	4.93
OP31007-MB	BK18856.D	11/14/12	08:00	4.61	4.93
OP31007-BS	BK18857.D	11/14/12	08:24	4.61	4.93
OP31007-MS	BK18858.D	11/14/12	08:48	4.61	4.93

Surrogate Compounds

S1 = Bromofluorobenzene (S)

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

8.5.2
8

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VERIFICATION, TESTING AND CERTIFICATION COMPANY.



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Automated Report

Technical Report for

Shell Oil

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana,

SGS Accutest Job Number: MC16960

Sampling Date: 12/17/12

Report to:

AECOM, INC.

Melissa.mansker@aecom.com

ATTN: Melissa Mansker

Total number of pages in report: 33



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.



ACCUTEST

October 20, 2016

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

RE: SGS Accutest Job # MC16960

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: MC16960

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample Number	Collected		Matrix Received	Code	Type	Client Sample ID
	Date	Time By				
MC16960-1	12/17/12	00:00	DMSS	12/18/12	AQ Trip Blank Water	TB-ROX-121712-HCL
MC16960-2	12/17/12	12:00	DMSS	12/18/12	AQ Ground Water	MW10-ROX-121712
MC16960-2D	12/17/12	12:00	DMSS	12/18/12	AQ Water Dup/MSD	MW10-ROX-121712
MC16960-2S	12/17/12	12:00	DMSS	12/18/12	AQ Water Matrix Spike	MW10-ROX-121712
MC16960-3	12/17/12	15:10	DMSS	12/18/12	AQ Ground Water	MW1-ROX-121712

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: She O

Job No MC 6960

Site: URSMOSTL:Roxana 4Q 2 GW/ 2 562735 00009 900 South Centra **Report Date** 0/24/20 6 9:52:03 A

2 Samp e(s), Tr p B ank(s) and 0 F e d B ank(s) were co ected on 2/ 7/20 2 and were rece ved at SGS Accutest New Eng and on 2/ 8/20 2 properly preserved, at 2 9 Deg C and intact These Samp es rece ved a job number of MC 6960 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 was 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 8260B

Matrix: AQ

Batch ID: MSG4890

- 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) MC 6960-2MS, MC 6960-2MSD were used as the QC samp es nd cated
- B ank Sp ke Recove y(s) for Acetone, D ch orod f uoromethane, 2,2-D ch oropropane, 2-Butanone (MEK), 2-Hexanone, Acro e n, Ch oromethane are outs de contro m ts
- Matr x Sp ke Recovery(s) for 2-Ch oroethy v ny ether, 4-Methy -2-pentanone (MIBK), Styrene, Acetone, D ch orod f uoromethane, 2,2-D ch oropropane, Ch oromethane 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 2,2-D ch oropropane, 2-Ch oroethy v ny ether, 4-Methy -2-pentanone (MIBK), Ch oromethane, D ch orod f uoromethane, Styrene are outs de contro m ts Probab e cause due to matr x nterference
- BS/MS/MSD Recovery(s) for Acetone, D ch orod f uorod f uoromethane Assoc ated samp es are non-detect for th s compound
- V ny Acetate: 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
- Acro e n: 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
- 2-Ch oroethy v ny ether: 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
- MSG4890-BS for D ch orod f uoromethane: Outs de contro m ts Assoc ated samp es are non-detect for th s compound
- MSG4890-BS for Acetone: Outs de contro m ts Assoc ated samp es are non-detect for th s compound

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(MC 6960)

Monday, October 24, 2016

Page 1 of 1

Summary of Hits

Job Number: MC16960
Account: Shell Oil
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
Collected: 12/17/12



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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MC16960-1 TB-ROX-121712-HCL

No hits reported in this sample.

MC16960-2 MW10-ROX-121712

Chloroform	0.95 J	1.0	0.50	ug/l	SW846 8260B
Xylene (total)	0.58 J	1.0	0.58	ug/l	SW846 8260B

MC16960-3 MW1-ROX-121712

Methyl Tert Butyl Ether	2.2	1.0	0.41	ug/l	SW846 8260B
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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-ROX-121712-HCL	Date Sampled:	12/17/12
Lab Sample ID:	MC16960-1	Date Received:	12/18/12
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G123043.D	1	12/19/12	JM	n/a	n/a	MSG4890
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein ^a	ND	25	10	ug/l	
107-13-1	Acrylonitrile ^a	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether ^a	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-121712-HCL	Date Sampled:	12/17/12
Lab Sample ID:	MC16960-1	Date Received:	12/18/12
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate ^a	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-121712-HCL		Date Sampled: 12/17/12
Lab Sample ID: MC16960-1		Date Received: 12/18/12
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

4.1
4

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%		70-130%
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

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

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

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10-ROX-121712	Date Sampled:	12/17/12
Lab Sample ID:	MC16960-2	Date Received:	12/18/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G123046.D	1	12/19/12	JM	n/a	n/a	MSG4890
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein ^a	ND	25	10	ug/l	
107-13-1	Acrylonitrile ^a	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether ^a	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	0.95	1.0	0.50	ug/l	J
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-121712	Date Sampled:	12/17/12
Lab Sample ID:	MC16960-2	Date Received:	12/18/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate ^a	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	0.58	1.0	0.58	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: MW10-ROX-121712		Date Sampled: 12/17/12
Lab Sample ID: MC16960-2		Date Received: 12/18/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

4.2
4

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	81%		70-130%
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

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

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

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW1-ROX-121712	Date Sampled:	12/17/12
Lab Sample ID:	MC16960-3	Date Received:	12/18/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G123049.D	1	12/19/12	JM	n/a	n/a	MSG4890
Run #2							

Run #	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	5.0	3.0	ug/l	
107-02-8	Acrolein ^a	ND	25	10	ug/l	
107-13-1	Acrylonitrile ^a	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether ^a	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	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-121712	Date Sampled:	12/17/12
Lab Sample ID:	MC16960-3	Date Received:	12/18/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B	Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 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	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.2	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate ^a	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	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-121712		Date Sampled: 12/17/12
Lab Sample ID: MC16960-3		Date Received: 12/18/12
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL		

4.3
4

VOA Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	80%		70-130%
2037-26-5	Toluene-D8	83%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

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

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

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Misc. Forms

5

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

LAB (LOCATION)

XENCO ()
 CALSCEM ()
 OTHER (Marlborough, MA 01752 (508-481-8200))
 SPL ()
 Lab Vendor # ()

Please Check Appropriate Box:

ENV. SERVICES
 MOTIVA RETAIL
 SHELL RETAIL
 MOTIVA SDBCM
 CONSULTANT
 LUBES
 SHELL PIPELINE
 OTHER

Print Bill To Contact Name: Dave Palmer

PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0

DATE: 12/17/12

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

PROJECT CONTACT (Hardcopy or PDF Report): Dave Palmer and Elizabeth Kunkel

TELEPHONE: 314-429-0100 FAX: 314-429-0462

EMAIL TO CONTACT E-MAIL: dave.palmer@urs.com; elizabeth.kunkel@urs.com

SITE ADDRESS: Street and City: 900 South Central Ave; ROXANA

STATE: IL GLOBAL ID NO.: 3 4 0 0 6 1

CONTRACT PROJECT NO.: Roxana Quarterly GW / 21562735.00009

SAMPLER NAME(S) (Print): D. Mattingly, S. Sansen

LAB USE ONLY: MC16960

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°

Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	PID (ppm)
	DATE	TIME	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		
	TP3-ROX-121712-1401	12/17/12	00:00	12/17/12	Water	X					2	X
	MW10-ROX-121712	12/17/12	12:00	12/17/12		X					2	X
-25	MW10-ROX-121712-MS	12/17/12	12:00	12/17/12		X					2	X
-20	MW10-ROX-121712-MSD	12/17/12	12:00	12/17/12		X					2	X
-3	MW1-ROX-121712	12/17/12	15:10	12/17/12		X					2	X

RUSH!

DM

4F2

Relinquished by (Signature): *Daniel Mattingly* Received by (Signature): *FED EX* Date: 12/17/12 Time: 1700

Relinquished by (Signature): *FX* Received by (Signature): *Tomson* Date: 12-18-12 Time: 1120

2.92

05/200 Revision

5.1 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC16960 Client: URS Immediate Client Services Action Required: No
 Date / Time Received: 12/18/2012 Delivery Method: _____ Client Service Action Required at Login: No
 Project: 900 SO CENTRAL No. Coolers: 1 Airbill #'s: _____

Cooler Security

<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/>

Cooler Temperature

<u>Y or N</u>
1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification: <u>Infrared gun</u>
3. Cooler media: <u>Ice (bag)</u>

Quality Control Preservation

<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
2. Trip Blank listed on COC: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
4. VOCs headspace free: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

Sample Integrity - Documentation

<u>Y or N</u>
1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/>
3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/>

Sample Integrity - Condition

<u>Y or N</u>
1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/>
2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/>
3. Condition of sample: <u>Intact</u>

Sample Integrity - Instructions

<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/>	
2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/>	
4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	

Comments

Internal Sample Tracking Chronicle

Shell Oil

Job No: MC16960

URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

5.2
5

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC16960-1 Collected: 17-DEC-12 00:00 By: DMSS Received: 18-DEC-12 By: TB-ROX-121712-HCL						
MC16960-1	SW846 8260B	19-DEC-12 14:37	JM			V8260SL +
MC16960-2 Collected: 17-DEC-12 12:00 By: DMSS Received: 18-DEC-12 By: MW10-ROX-121712						
MC16960-2	SW846 8260B	19-DEC-12 16:04	JM			V8260SL +
MC16960-3 Collected: 17-DEC-12 15:10 By: DMSS Received: 18-DEC-12 By: MW1-ROX-121712						
MC16960-3	SW846 8260B	19-DEC-12 17:31	JM			V8260SL +

SGS Accutest Internal Chain of Custody

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL
 Received: 12/18/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC16960-1.2	VOC Ref #4	Tomasz Torski	12/19/12 13:01	Retrieve from Storage
MC16960-1.2	Tomasz Torski	GCMMSG	12/19/12 13:01	Load on Instrument
MC16960-1.2	GCMMSG	Jaime Maslowski	12/19/12 14:26	Unload from Instrument
MC16960-1.2	Jaime Maslowski	VOC Ref #4	12/19/12 14:27	Return to Storage
MC16960-1.2	VOC Ref #4	Jaime Maslowski	12/19/12 14:29	Retrieve from Storage
MC16960-1.2	Jaime Maslowski	GCMMSG	12/19/12 14:29	Load on Instrument
MC16960-1.2	GCMMSG	Jaime Maslowski	12/20/12 14:33	Unload from Instrument
MC16960-1.2	Jaime Maslowski	VOC Ref #4	12/20/12 14:33	Return to Storage
MC16960-1.2	Scott Parsick		02/13/13 11:52	Disposed
MC16960-2.1	VOC Ref #4	Tomasz Torski	12/19/12 13:01	Retrieve from Storage
MC16960-2.1	Tomasz Torski	GCMMSG	12/19/12 13:01	Load on Instrument
MC16960-2.1	GCMMSG	Jaime Maslowski	12/19/12 14:26	Unload from Instrument
MC16960-2.1	Jaime Maslowski	VOC Ref #4	12/19/12 14:27	Return to Storage
MC16960-2.1	Scott Parsick		02/13/13 11:52	Disposed
MC16960-2.5	VOC Ref #4	Tomasz Torski	12/19/12 13:01	Retrieve from Storage
MC16960-2.5	Tomasz Torski	GCMMSG	12/19/12 13:01	Load on Instrument
MC16960-2.5	GCMMSG	Jaime Maslowski	12/19/12 14:26	Unload from Instrument
MC16960-2.5	Jaime Maslowski	VOC Ref #4	12/19/12 14:27	Return to Storage
MC16960-2.5	VOC Ref #4	Jaime Maslowski	12/19/12 14:29	Retrieve from Storage
MC16960-2.5	Jaime Maslowski	GCMMSG	12/19/12 14:29	Load on Instrument
MC16960-2.5	GCMMSG	Jaime Maslowski	12/20/12 14:33	Unload from Instrument
MC16960-2.5	Jaime Maslowski	VOC Ref #4	12/20/12 14:33	Return to Storage
MC16960-2.5	Scott Parsick		02/13/13 11:52	Disposed
MC16960-2.6	VOC Ref #4	Tomasz Torski	12/19/12 13:01	Retrieve from Storage
MC16960-2.6	Tomasz Torski	GCMMSG	12/19/12 13:01	Load on Instrument
MC16960-2.6	GCMMSG	Jaime Maslowski	12/19/12 14:26	Unload from Instrument
MC16960-2.6	Jaime Maslowski	VOC Ref #4	12/19/12 14:27	Return to Storage
MC16960-2.6	Scott Parsick		02/13/13 11:52	Disposed
MC16960-3.2	VOC Ref #4	Tomasz Torski	12/19/12 13:01	Retrieve from Storage
MC16960-3.2	Tomasz Torski	GCMMSG	12/19/12 13:01	Load on Instrument
MC16960-3.2	GCMMSG	Jaime Maslowski	12/19/12 14:26	Unload from Instrument
MC16960-3.2	Jaime Maslowski	VOC Ref #4	12/19/12 14:27	Return to Storage
MC16960-3.2	VOC Ref #4	Jaime Maslowski	12/19/12 14:29	Retrieve from Storage
MC16960-3.2	Jaime Maslowski	GCMMSG	12/19/12 14:29	Load on Instrument
MC16960-3.2	GCMMSG	Jaime Maslowski	12/20/12 14:33	Unload from Instrument
MC16960-3.2	Jaime Maslowski	VOC Ref #4	12/20/12 14:33	Return to Storage
MC16960-3.2	Scott Parsick		02/13/13 11:52	Disposed

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: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4890-MB	G123042.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
107-02-8	Acrolein	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	5.0	3.2	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.62	ug/l	
74-97-5	Bromochloromethane	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.78	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.4	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.61	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.55	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.61	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.87	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.47	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	2.0	0.73	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.65	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.48	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.53	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.93	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.45	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.64	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.62	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.63	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.41	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.64	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.95	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.72	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.64	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.6	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.91	ug/l	

6.1.1
6

Method Blank Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4890-MB	G123042.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.20	ug/l	
123-91-1	1,4-Dioxane	ND	25	15	ug/l	
97-63-2	Ethyl methacrylate	ND	5.0	0.81	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.51	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.1	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.50	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.57	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.41	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.9	ug/l	
74-95-3	Methylene bromide	ND	5.0	1.1	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.83	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.58	ug/l	
100-42-5	Styrene	ND	5.0	0.45	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	0.57	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.42	ug/l	
108-88-3	Toluene	ND	1.0	0.51	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.85	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.29	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.85	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.35	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.47	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.3	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.63	ug/l	
	m,p-Xylene	ND	1.0	0.73	ug/l	
95-47-6	o-Xylene	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.58	ug/l	

6.1.1
6

Method Blank Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4890-MB	G123042.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	79% 70-130%
2037-26-5	Toluene-D8	83% 70-130%
460-00-4	4-Bromofluorobenzene	91% 70-130%

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

6.1.1
6

Blank Spike Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4890-BS	G123040.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	91.9	184* a	70-130
107-02-8	Acrolein	250	113	45* b	70-130
107-13-1	Acrylonitrile	50	50.5	101	70-130
71-43-2	Benzene	50	56.9	114	70-130
108-86-1	Bromobenzene	50	53.2	106	70-130
74-97-5	Bromochloromethane	50	49.2	98	70-130
75-27-4	Bromodichloromethane	50	52.7	105	70-130
75-25-2	Bromoform	50	43.8	88	70-130
74-83-9	Bromomethane	50	53.5	107	70-130
78-93-3	2-Butanone (MEK)	50	69.6	139* b	70-130
104-51-8	n-Butylbenzene	50	58.3	117	70-130
135-98-8	sec-Butylbenzene	50	55.3	111	70-130
98-06-6	tert-Butylbenzene	50	62.9	126	70-130
75-15-0	Carbon disulfide	50	59.1	118	70-130
56-23-5	Carbon tetrachloride	50	52.2	104	70-130
108-90-7	Chlorobenzene	50	49.3	99	70-130
75-00-3	Chloroethane	50	58.7	117	70-130
110-75-8	2-Chloroethyl vinyl ether	50	38.1	76	70-130
67-66-3	Chloroform	50	54.8	110	70-130
74-87-3	Chloromethane	50	70.4	141* b	70-130
95-49-8	o-Chlorotoluene	50	54.7	109	70-130
106-43-4	p-Chlorotoluene	50	58.0	116	70-130
124-48-1	Dibromochloromethane	50	49.0	98	70-130
95-50-1	1,2-Dichlorobenzene	50	52.1	104	70-130
541-73-1	1,3-Dichlorobenzene	50	52.7	105	70-130
106-46-7	1,4-Dichlorobenzene	50	55.1	110	70-130
75-71-8	Dichlorodifluoromethane	50	79.5	159* a	70-130
75-34-3	1,1-Dichloroethane	50	59.6	119	70-130
107-06-2	1,2-Dichloroethane	50	50.8	102	70-130
75-35-4	1,1-Dichloroethene	50	58.0	116	70-130
156-59-2	cis-1,2-Dichloroethene	50	54.8	110	70-130
156-60-5	trans-1,2-Dichloroethene	50	56.5	113	70-130
78-87-5	1,2-Dichloropropane	50	56.1	112	70-130
142-28-9	1,3-Dichloropropane	50	50.1	100	70-130
594-20-7	2,2-Dichloropropane	50	65.6	131* b	70-130
563-58-6	1,1-Dichloropropene	50	55.1	110	70-130

* = Outside of Control Limits.

6.2.1
6

Blank Spike Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4890-BS	G123040.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	54.2	108	70-130
10061-02-6	trans-1,3-Dichloropropene	50	56.5	113	70-130
123-91-1	1,4-Dioxane	250	219	88	70-130
97-63-2	Ethyl methacrylate	50	49.6	99	77-137
100-41-4	Ethylbenzene	50	54.3	109	70-130
87-68-3	Hexachlorobutadiene	50	54.0	108	70-130
591-78-6	2-Hexanone	50	68.8	138* b	70-130
98-82-8	Isopropylbenzene	50	54.8	110	70-130
99-87-6	p-Isopropyltoluene	50	59.0	118	70-130
1634-04-4	Methyl Tert Butyl Ether	50	54.5	109	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	46.4	93	70-130
74-95-3	Methylene bromide	50	47.5	95	70-130
75-09-2	Methylene chloride	50	55.0	110	70-130
91-20-3	Naphthalene	50	49.1	98	70-130
103-65-1	n-Propylbenzene	50	55.6	111	70-130
100-42-5	Styrene	50	49.6	99	70-130
630-20-6	1,1,1,2-Tetrachloroethane	50	48.9	98	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	58.2	116	70-130
127-18-4	Tetrachloroethene	50	49.5	99	70-130
108-88-3	Toluene	50	54.6	109	70-130
87-61-6	1,2,3-Trichlorobenzene	50	50.8	102	70-130
120-82-1	1,2,4-Trichlorobenzene	50	51.7	103	70-130
71-55-6	1,1,1-Trichloroethane	50	57.2	114	70-130
79-00-5	1,1,2-Trichloroethane	50	51.9	104	70-130
79-01-6	Trichloroethene	50	52.2	104	70-130
75-69-4	Trichlorofluoromethane	50	53.7	107	70-130
96-18-4	1,2,3-Trichloropropane	50	54.6	109	70-130
95-63-6	1,2,4-Trimethylbenzene	50	59.0	118	70-130
108-67-8	1,3,5-Trimethylbenzene	50	58.5	117	70-130
108-05-4	Vinyl Acetate	50	51.8	104	70-130
75-01-4	Vinyl chloride	50	60.8	122	70-130
	m,p-Xylene	100	107	107	70-130
95-47-6	o-Xylene	50	52.3	105	70-130
1330-20-7	Xylene (total)	150	159	106	70-130

* = Outside of Control Limits.

Blank Spike Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4890-BS	G123040.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	81%	70-130%
2037-26-5	Toluene-D8	84%	70-130%
460-00-4	4-Bromofluorobenzene	89%	70-130%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC16960-2MS	G123047.D	1	12/19/12	JM	n/a	n/a	MSG4890
MC16960-2MSD	G123048.D	1	12/19/12	JM	n/a	n/a	MSG4890
MC16960-2	G123046.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Compound	MC16960-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		50	223	446* a	50	178	356* a	22	70-130/30
107-02-8	Acrolein	ND		250	201	80	250	209	84	4	70-130/30
107-13-1	Acrylonitrile	ND		50	61.2	122	50	59.6	119	3	70-130/30
71-43-2	Benzene	ND		50	59.3	119	50	58.5	117	1	70-130/30
108-86-1	Bromobenzene	ND		50	54.3	109	50	53.9	108	1	70-130/30
74-97-5	Bromochloromethane	ND		50	49.9	100	50	48.5	97	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	52.5	105	50	51.4	103	2	70-130/30
75-25-2	Bromoform	ND		50	35.6	71	50	35.0	70	2	70-130/30
74-83-9	Bromomethane	ND		50	54.7	109	50	53.1	106	3	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	50.5	101	50	48.1	96	5	70-130/30
104-51-8	n-Butylbenzene	ND		50	56.3	113	50	55.2	110	2	70-130/30
135-98-8	sec-Butylbenzene	ND		50	54.2	108	50	53.7	107	1	70-130/30
98-06-6	tert-Butylbenzene	ND		50	61.9	124	50	60.9	122	2	70-130/30
75-15-0	Carbon disulfide	ND		50	53.1	106	50	52.0	104	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50	53.5	107	50	52.9	106	1	70-130/30
108-90-7	Chlorobenzene	ND		50	48.6	97	50	48.3	97	1	70-130/30
75-00-3	Chloroethane	ND		50	62.5	125	50	61.0	122	2	70-130/30
110-75-8	2-Chloroethyl vinyl ether	ND		50	ND	0* b	50	ND	0* b	nc	70-130/30
67-66-3	Chloroform	0.95	J	50	57.4	113	50	55.4	109	4	70-130/30
74-87-3	Chloromethane	ND		50	78.4	157* c	50	75.7	151* c	4	70-130/30
95-49-8	o-Chlorotoluene	ND		50	53.2	106	50	53.7	107	1	70-130/30
106-43-4	p-Chlorotoluene	ND		50	57.5	115	50	55.9	112	3	70-130/30
124-48-1	Dibromochloromethane	ND		50	43.0	86	50	43.4	87	1	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		50	51.9	104	50	50.9	102	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	53.9	108	50	53.5	107	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	56.1	112	50	55.4	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	79.5	159* a	50	77.5	155* a	3	70-130/30
75-34-3	1,1-Dichloroethane	ND		50	62.5	125	50	60.5	121	3	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	51.4	103	50	50.2	100	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		50	59.3	119	50	57.2	114	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		50	57.1	114	50	56.2	112	2	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	57.7	115	50	56.3	113	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	57.9	116	50	56.7	113	2	70-130/30
142-28-9	1,3-Dichloropropane	ND		50	47.3	95	50	47.5	95	0	70-130/30
594-20-7	2,2-Dichloropropane	ND		50	66.9	134* c	50	68.8	138* c	3	70-130/30
563-58-6	1,1-Dichloropropene	ND		50	56.1	112	50	54.2	108	3	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC16960-2MS	G123047.D	1	12/19/12	JM	n/a	n/a	MSG4890
MC16960-2MSD	G123048.D	1	12/19/12	JM	n/a	n/a	MSG4890
MC16960-2	G123046.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Compound	MC16960-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
10061-01-5	cis-1,3-Dichloropropene	ND	50	53.3	107	50	53.2	106	0	70-130/30	
10061-02-6	trans-1,3-Dichloropropene	ND	50	54.4	109	50	53.3	107	2	70-130/30	
123-91-1	1,4-Dioxane	ND	250	241	96	250	201	80	18	70-130/30	
97-63-2	Ethyl methacrylate	ND	50	43.7	87	50	42.8	86	2	72-139/30	
100-41-4	Ethylbenzene	ND	50	49.9	100	50	49.0	98	2	70-130/30	
87-68-3	Hexachlorobutadiene	ND	50	55.9	112	50	55.5	111	1	70-130/30	
591-78-6	2-Hexanone	ND	50	44.8	90	50	44.2	88	1	70-130/30	
98-82-8	Isopropylbenzene	ND	50	54.3	109	50	53.5	107	1	70-130/30	
99-87-6	p-Isopropyltoluene	ND	50	53.9	108	50	52.7	105	2	70-130/30	
1634-04-4	Methyl Tert Butyl Ether	ND	50	53.4	107	50	52.0	104	3	70-130/30	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	32.3	65* b	50	31.7	63* b	2	70-130/30	
74-95-3	Methylene bromide	ND	50	47.9	96	50	46.9	94	2	70-130/30	
75-09-2	Methylene chloride	ND	50	57.6	115	50	56.4	113	2	70-130/30	
91-20-3	Naphthalene	ND	50	42.6	85	50	43.4	87	2	70-130/30	
103-65-1	n-Propylbenzene	ND	50	54.1	108	50	53.2	106	2	70-130/30	
100-42-5	Styrene	ND	50	21.9	44* b	50	20.7	41* b	6	70-130/30	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	47.7	95	50	47.3	95	1	70-130/30	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	56.6	113	50	56.6	113	0	70-130/30	
127-18-4	Tetrachloroethene	ND	50	49.2	98	50	48.9	98	1	70-130/30	
108-88-3	Toluene	ND	50	52.7	105	50	52.0	104	1	70-130/30	
87-61-6	1,2,3-Trichlorobenzene	ND	50	45.6	91	50	46.0	92	1	70-130/30	
120-82-1	1,2,4-Trichlorobenzene	ND	50	48.6	97	50	48.8	98	0	70-130/30	
71-55-6	1,1,1-Trichloroethane	ND	50	59.2	118	50	57.8	116	2	70-130/30	
79-00-5	1,1,2-Trichloroethane	ND	50	51.5	103	50	50.7	101	2	70-130/30	
79-01-6	Trichloroethene	ND	50	54.4	109	50	53.9	108	1	70-130/30	
75-69-4	Trichlorofluoromethane	ND	50	56.3	113	50	54.4	109	3	70-130/30	
96-18-4	1,2,3-Trichloropropane	ND	50	53.6	107	50	53.0	106	1	70-130/30	
95-63-6	1,2,4-Trimethylbenzene	ND	50	42.7	85	50	41.3	83	3	70-130/30	
108-67-8	1,3,5-Trimethylbenzene	ND	50	36.6	73	50	35.0	70	4	70-130/30	
108-05-4	Vinyl Acetate	ND	50	54.3	109	50	52.6	105	3	70-130/30	
75-01-4	Vinyl chloride	ND	50	63.4	127	50	61.5	123	3	70-130/30	
	m,p-Xylene	ND	100	86.0	86	100	84.2	84	2	70-130/30	
95-47-6	o-Xylene	ND	50	42.7	85	50	42.2	84	1	70-130/30	
1330-20-7	Xylene (total)	0.58	J	150	129	86	150	126	84	2	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC16960-2MS	G123047.D	1	12/19/12	JM	n/a	n/a	MSG4890
MC16960-2MSD	G123048.D	1	12/19/12	JM	n/a	n/a	MSG4890
MC16960-2	G123046.D	1	12/19/12	JM	n/a	n/a	MSG4890

The QC reported here applies to the following samples:

Method: SW846 8260B

MC16960-1, MC16960-2, MC16960-3

CAS No.	Surrogate Recoveries	MS	MSD	MC16960-2	Limits
1868-53-7	Dibromofluoromethane	80%	79%	81%	70-130%
2037-26-5	Toluene-D8	81%	81%	84%	70-130%
460-00-4	4-Bromofluorobenzene	91%	91%	91%	70-130%

- (a) Outside control limits. Associated samples are non-detect for this compound.
- (b) Outside control limits due to possible matrix interference. Refer to Blank Spike.
- (c) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

6.3.1
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Volatile Internal Standard Area Summary

Job Number: MC16960
 Account: SHELLWIC Shell Oil
 Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Check Std:	MSG4890-CC4862	Injection Date:	12/19/12
Lab File ID:	G123039.D	Injection Time:	12:40
Instrument ID:	GCMSG	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4		IS 5	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	286410	5.13	370395	6.27	164021	9.62	187308	12.25	45547	3.09
Upper Limit ^a	572820	5.63	740790	6.77	328042	10.12	374616	12.75	91094	3.59
Lower Limit ^b	143205	4.63	185198	5.77	82011	9.12	93654	11.75	22774	2.59

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
MSG4890-BS	282985	5.13	371357	6.27	167405	9.62	189625	12.25	47396	3.09
MSG4890-MB	282433	5.13	369645	6.27	164038	9.62	178729	12.25	43634	3.09
MC16960-1	282574	5.13	369232	6.27	164730	9.62	180182	12.25	42360	3.09
MC16960-2	285016	5.13	372337	6.27	168741	9.62	183085	12.25	45498	3.09
MC16960-2MS	284764	5.13	369454	6.27	174599	9.63	185091	12.25	42533	3.09
MC16960-2MSD	287096	5.13	371721	6.27	172767	9.63	184026	12.25	42179	3.09
MC16960-3	276590	5.13	366139	6.27	161751	9.62	174637	12.25	38551	3.09
ZZZZZZ	290119	5.13	371540	6.27	165488	9.62	175079	12.25	40695	3.09
ZZZZZZ	283362	5.13	372502	6.27	163190	9.62	177153	12.25	38650	3.09
ZZZZZZ	287106	5.13	369129	6.27	166201	9.62	176271	12.25	38366	3.09
ZZZZZZ	286933	5.13	371889	6.27	164732	9.62	176912	12.25	39782	3.09
ZZZZZZ	283093	5.13	372612	6.27	164628	9.62	177186	12.25	38592	3.09
ZZZZZZ	283130	5.13	372011	6.27	162957	9.62	174193	12.25	37654	3.09
ZZZZZZ	284003	5.13	369948	6.27	165251	9.62	177110	12.25	41528	3.09
ZZZZZZ	285640	5.13	373240	6.27	168448	9.62	181996	12.25	40470	3.09
ZZZZZZ	285804	5.13	373852	6.27	167182	9.62	180355	12.25	38449	3.09
ZZZZZZ	280394	5.13	367968	6.27	164834	9.62	179901	12.25	36344	3.09
ZZZZZZ	287582	5.13	372105	6.27	167387	9.62	178260	12.25	34258	3.09
ZZZZZZ	290644	5.13	378797	6.27	168911	9.62	177307	12.25	37047	3.09
ZZZZZZ	289243	5.13	376920	6.27	165400	9.62	177541	12.25	37140	3.09
ZZZZZZ	286890	5.13	375802	6.27	167129	9.62	182021	12.25	38728	3.09

- 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.

6.4.1
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Volatile Surrogate Recovery Summary

Job Number: MC16960

Account: SHELLWIC Shell Oil

Project: URSMOSTL:Roxana 4Q12 GW/ 21562735.00009 900 South Central Avenue, Roxana, IL

Method: SW846 8260B

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC16960-1	G123043.D	80	84	91
MC16960-2	G123046.D	81	84	91
MC16960-3	G123049.D	80	83	92
MC16960-2MS	G123047.D	80	81	91
MC16960-2MSD	G123048.D	79	81	91
MSG4890-BS	G123040.D	81	84	89
MSG4890-MB	G123042.D	79	83	91

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

6.5.1

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