OCTOBER 2011
SEMI-ANNUAL MONITORING OF GROUNDWATER, SURFACE WATER, AND METHANE

OWL'S DEN LANDFILL
LINCOLN COUNTY
LINCOLNTON, NORTH CAROLINA

S&ME Project No. 1356-07-006

Prepared for:

Lincoln County
5291 Crouse Road
Crouse, North Carolina 28033

Prepared by:

S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, North Carolina 28273

Courtney W. Murphy, P.G.
Project Geologist

Julie R. Petersen, P.G.
Project Manager/Senior Geologist

Senior Reviewed by M. Neal McElveen, P.E.

December 22, 2011

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In Accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Consultant - S&ME, INC.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Courtney Withers Murphy, P.G. Phone: 704-523-4726

E-mail: cmurphy@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Owl's Den Landfill	Owl's Den Road, Lincolnton, NC	55-02 (closed)		October 13-14, 2011

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☒ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☒ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards or explosive methane gas limits were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☒ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Courtney W. Murphy, P.G. Project Geologist 704-523-4726

Facility Representative Name (Print) Title (Area Code) Telephone Number

Courtney W. Murphy 12-22-11

Signature Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2203 GEOLOGIST COURTNEY WITHERS MURPHY

Revised 10/2006

TABLE OF CONTENTS

1.0 INTRODUCTION **1**

2.0 GROUNDWATER LEVELS AND FLOW DATA **1**

3.0 ANALYTICAL DATA **2**

3.1 Monitoring Well Sampling 2
3.1.1 Volatile Organic Compounds (VOCs) *2*
3.1.2 Metals *3*
3.2 Surface Water Sampling 3
3.2.1 Volatile Organic Compounds (VOCs) *3*
3.2.2 Metals *4*
3.3 Private Supply Well Sampling 4

4.0 METHANE READINGS **4**

TABLES

Table 1: October 2011 Water Level Elevations
Table 2: Groundwater Flow Velocity
Table 3: Detected Analytes in Groundwater Monitoring Wells
Table 4: Detected Analytes in Surface Water Samples
Table 5: Detected Analytes in Private Supply Wells
Table 6: Methane Readings in Methane Monitor Wells

FIGURES

Figure 1: Groundwater Elevation Map

APPENDICES

Appendix I: Field Sampling Logs and Laboratory Reports

1.0 INTRODUCTION

S&ME, Inc. (S&ME) was contracted by Lincoln County to provide groundwater, surface water, water supply well, and methane monitoring services at the Owl's Den Landfill located off Owl's Den Road in Lincolnton, North Carolina. This semi-annual monitoring event was conducted on October 13 and 14, 2011.

This report presents the results of the second semi-annual sampling event for the year 2011 at the facility, which included the sampling of one (1) background well (MW-1), ten (10) compliance wells (MW-2, MW-4, MW-5, MW-6, MW-6A, MW-7, MW-7A, MW-8, MW-9, and MW-10), and three (3) surface water locations (SW-1, SW-2 and SW-3). Please note that compliance well MW-3 has been removed from the site's monitoring plan due to expansion of the property boundary currently monitored by compliance wells MW-8 and MW-9. Compliance monitoring well MW-3 remains on-site for water level measurement purposes.

S&ME collected methane readings at seven (7) methane monitoring wells (MMW-2, MMW-4, MMW-5, MMW-6, MMW-7, MMW-8, and MMW-9). Please note that methane monitoring wells MMW-1 and MMW-3 have been removed from the site's monitoring plan. MMW-1 was replaced with MMW-7, and MMW-3 was replaced with MMW-5 and MMW-6.

S&ME collected three (3) surface water samples (SW-1, SW-2, and SW-3). Surface water sample location SW-1 represents a background surface water sample for the site.

The next sampling event is scheduled for April 2012.

2.0 GROUNDWATER LEVELS AND FLOW DATA

The water table elevations and our interpretation of the groundwater surface expressed as a potentiometric map along with groundwater flow direction are shown on ***Figure 1***. Based upon the groundwater elevations in the vicinity of the landfill, groundwater in this area is projected to flow north-northwest toward the drainage features bordering the site on the west, north and east of the property. Groundwater levels for the monitoring wells are presented in ***Table 1***.

The hydraulic gradient (i) in the vicinity of each well was determined by calculating the vertical difference between the groundwater elevation at each well and one or more nearby contour lines from the Groundwater Elevation Map. This value was then divided by the distance measured from the well to the selected groundwater elevation contour line. Groundwater velocity was calculated by multiplying the gradient (i) by the hydraulic conductivity (k) and dividing by the estimated effective porosity (n) of the aquifer. ***Table 2*** summarizes the groundwater flow velocities for the monitoring wells.

3.0 ANALYTICAL DATA

Analytical results for the landfill monitoring wells and surface water locations are summarized in ***Tables 3*** and ***4***. Detections above their respective groundwater or surface water Standards are highlighted in grey. Well sampling logs containing field measurements of pH, conductivity, temperature and water levels are included in ***Appendix I***. The monitoring wells and surface water stations were sampled for volatile organics by EPA Method 8260B and for the RCRA metals.

3.1 Monitoring Well Sampling

3.1.1 Volatile Organic Compounds (VOCs)

No volatile organic compounds (VOCs) were detected in the background monitoring well, MW-1, or monitoring wells MW-5 or MW-10.

Eight VOCs were detected in monitoring well MW-2. Of the eight constituents detected, one was detected at a level at or above its respective NCAC 2L .0202 Groundwater Quality Standard (2L Standard) and/or respective SW GWP Standard (1,2-Dichloropropane).

Twelve VOCs were detected in monitoring well MW-4. Of the twelve constituents detected, four were detected at levels at or above their respective 2L Standard and/or respective SW GWP Standard (1,4-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, and Benzene).

Two VOCs were detected in monitoring well MW-6, none of which were detected at or above their respective 2L Standard and/or respective SW GWP Standard.

Seven VOCs were detected in monitoring well MW-6A, two of which were detected at or above their respective 2L Standard and/or respective SW GWP Standard (1,2-Dichloroethane and 1,4-Dichlorobenzene).

Nine VOCs were detected in monitoring well MW-7, none of which were detected at or above their respective 2L Standard and/or respective SW GWP Standard.

Seven VOCs were detected in monitoring well MW-7A, none of which were detected at or above their respective 2L Standard and/or respective SW GWP Standard.

One VOCs was detected in monitoring well MW-8, but not at a concentration at/or above its respective 2L Standard and/or respective SW GWP Standard.

One VOCs was detected in monitoring well MW-9, but not at a concentration at/or above its respective 2L Standard and/or respective SW GWP Standard.

3.1.2 Metals

Barium was detected in each of the eleven monitoring wells, including the background monitoring well MW-1. Barium was detected at a concentration of 924 micrograms per liter (µg/L), which is above its 2L Standard of 700 µg/L in monitoring well MW-6A.

Cadmium was detected in monitoring wells MW-2, MW-7, and MW-9. Cadmium was detected above its 2L Standard of 2 µg/L in monitoring well MW-7 which had a concentration of 3.73 µg/L.

Chromium was detected in monitoring wells MW-2, MW-4, MW-6, MW-6A, MW-7, MW-9, and MW-10 at concentrations ranging from 1.72 J to 8.44 J ug/L, respectively, which are below the 2L Standard of 10 ug/L.

Mercury was detected in monitoring well MW-9 at a concentration of 2.38 µg/L, which is above the 2L Standard of 1 µg/L.

Selenium was detected in the background monitoring well MW-1 at a concentration of 2.81 J µg/L, which is below the 2L Standard of 20 µg/L.

Silver was detected in monitoring wells MW-2, MW-4, and MW-7 at concentrations of 3.07 J, 3.36 J, and 3.85 J µg/L, respectively, which are below the 2L Standard of 20 µg/L.

Please note that the concentrations of metals in the monitoring wells fluctuate with time and may be due to suspended solids rather than actual dissolved metals.

No other metals were detected in the monitoring wells.

3.2 Surface Water Sampling

3.2.1 Volatile Organic Compounds (VOCs)

The volatile organic compound cis-1,2-Dichloroethene was detected at surface water sampling locations SW-2 and SW-3 at concentrations of 1.0 µg/L and 0.74 J µg/L, respectively. The NCAC 2B Freshwater Standard for cis-1,2-Dichloroethene is 4,900 µg/L.

The volatile organic compound 1,1–Dichloroethane was detected at surface water sampling location SW-3 at a concentration of 0.54 J µg/L. The NCAC 2B Freshwater Standard for 1,1–Dichloroethane is 20,000 µg/L.

The volatile organic compound 1,3,5-Trimethylbenzene was detected at surface water sampling location SW-1 at a concentration of 1.4 µg/L. There is not an established NCAC 2B Freshwater Standard for 1,3,5-Trimethylbenzene.

3.2.2 Metals

Barium was detected at surface water sampling locations SW-1, SW-2 and SW-3 at concentrations of 75, 206, and 323 µg/L, respectively. The NCAC 2B Freshwater Standard established for Barium is 200,000 µg/L.

Chromium was detected at surface water sampling locations SW-2 and SW-3 at concentrations of 1.08 J and 1.77 J µg/L, respectively. The NCAC 2B Freshwater Standard established for Chromium is 50 µg/L.

No other metals were detected in the surface water samples.

3.3 Private Supply Well Sampling

During the October 2011 sampling event, four (4) private water supply wells (PSW-1, PSW-3, PSW-6, and PSW-16) located on properties adjacent to the landfill, were sampled for EPA method 8260B volatile organics and RCRA metals. The locations of the four (4) private well locations are shown on the attached ***Figure 1***. Laboratory analytical results for the private supply wells are summarized in ***Table 5*** and also included in ***Appendix I***.

No volatile organic compounds were detected in the private supply wells during the October 2011 sampling event.

Each of the four (4) private supply wells had detections of barium ranging from 46.8 to 111 µg/L. The 2L Standard for Barium is 700 µg/L.

Two private supply wells, PSW-3 and PSW-6, had detections of chromium at concentrations of 1.29 J and 1.83 J µg/L, respectively. The 2L Standard for chromium is 10 µg/L.

No other metals were detected in the private supply wells during the October 2011 sampling event.

4.0 METHANE READINGS

Methane readings were taken from the seven (7) methane monitoring wells (MMW-2, MMW-4, MMW-5, MMW-6, MMW-7, MMW-8, and MMW-9) during the October 2011 semi-annual monitoring event. Percent methane levels ranged from zero (MMW-6, MMW-7, MMW-8, and MMW-9) to 749 in MMW-4. Please note that methane monitoring wells MMW-2 , MMW-4, and MMW-5 were above the methane lower explosive limit of 5%. ***Table 5*** summarizes the data collected.

TABLES

Table 1
October 2011 - Water Level Elevations
Lincolnton, North Carolina
Lincoln County Owl's Den Landfill
S&ME Project No. 1356-07-006

Well Identification		Ground Surface Elevation (ft - MSL)	Top of Casing Elevation (ft - MSL)	Depth to Groundwater From Top of Casing (ft)	Groundwater Elevation (ft - MSL)
Background Well	MW-1	863.20	865.69	36.55	829.14
Compliance Well	MW-2	822.50	824.96	25.71	799.25
Compliance Well	MW-3	870.20	872.60	42.76	829.84
Compliance Well	MW-4	831.80	833.90	40.52	793.38
Compliance Well	MW-5	835.90	839.10	27.42	811.68
Compliance Well	MW-6	805.44	808.55	16.81	791.74
Compliance Well	MW-6A	805.17	808.61	18.56	790.05
Compliance Well	MW-7	815.47	818.44	23.28	795.16
Compliance Well	MW-7A	814.68	817.48	21.87	795.61
Compliance Well	MW-8	878.23	881.21	50.04	831.17
Compliance Well	MW-9	882.19	884.94	51.78	833.16
Compliance Well	MW-10	864.33	867.11	44.61	822.50

Notes:

(ft - MSL) - Feet Mean Sea Level
(ft) - Feet
The "A" suffix on the well locations indicates the deep well of the pair.

Table 2
October 2011 - Groundwater Flow Velocity
Lincoln County Owl's Den Landfill
S&ME Project No. 1356-07-006

Well Identification	Hydraulic Conductivity (K) ft/yr	Effective Porosity (n^e) %	Hydraulic Gradient (i) ft/ft	Seepage Velocity (v) ft/yr
MW-1	4.3E+02	0.20	0.03	65
MW-2	2.6E+03	0.28	0.05	471
MW-3	9.8E+02	0.33	0.02	60
MW-4	1.3E+03	0.30	0.04	177
MW-5	6.2E+02	0.27	0.03	69
MW-6	4.2E+02	0.29	0.02	29
MW-7	2.1E+02	0.30	0.05	35
MW-8	5.6E+02	0.28	0.02	40
MW-9	1.3E+03	0.31	0.02	86
MW-10	9.5E+02	0.31	0.02	61

Notes:

(1) Hydraulic Conductivity was calculated from slug tests performed after well construction.

(2) Effective porosity was estimated from soils collected within the saturated portion of screen interval during well construction.

(3) Hydraulic gradient calculated by measuring linear feet between selected contour intervals.

(4) Seepage velocity $v = (K*i)/n^e$

Table 3
October 2011 - Detected Analytes in Groundwater Monitoring Wells
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

EPA Volatile Organic Compounds Method 8260B (ug/L)	NCDENR SWSL	15A NCAC 2L	Soild Waste GWP ST	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	MW-9	MW-10
1,1- Dichloroethane	5	6	NE		1.9	OMITTED FROM GROUNDWATER MONITORING PLAN IN 2008	2.2			2.4	0.73 J	0.66 J		0.69 J	
1,2-Dichlorobenzene	5	20	NE		0.65 J		3.4			3.2	0.61 J	0.44 J			
1,2-Dichloroethane	1	0.4	NE				**1.1**			**0.74 J**					
1,2-Dichloropropane	1	0.6	NE		**1.0**		**0.80 J**								
1,2,4-Trimethylbenzene	NE	400	NE				1.4								
1,3-Dichlorobenzene	5	200	NE				0.95 J			0.92 J					
1,4-Dichlorobenzene	1	6	NE		4.8		**12**		1.4	**11**	5.5	3.4			
2-Chlorotoluene	NE	100	NE		1.4		0.73 J				1.1	0.58 J	1.3		
Acetone	100	6000	NE				2.5 J				5.4				
Benzene	1	1	NE				**1.3**			0.74 J	0.96 J				
Chlorobenzene	3	50	NE		4.2		8.5		3	11	3.1	2.6			
Chloroethane	10	3000	NE				2.6								
cis-1,2-Dichloroethene	5	70	NE		3.2						2	2.4			
Methyl-tert-Butyl Ether	NE	20	NE		1.3						0.66 J				
Trichloroethene	1	3	NE									1			
EPA RCRA Metals Method 6010B (ug/L)	**NCDENR SWSL**	**15A NCAC 2L**	**Soild Waste GWP ST**	**MW-1**	**MW-2**		**MW-4**	**MW-5**	**MW-6**	**MW-6A**	**MW-7**	**MW-7A**	**MW-8**	**MW-9**	**MW-10**
Barium	100	700	NE	134	593		635	78.5	206	**924**	580	390	212	311	121
Cadmium	1	2	NE		1.94						**3.73**			0.408 J	
Chromium	10	10	NE		8.44 J		4.06 J		1.90 J	2.32 J	7.43 J			1.72 J	5.65 J
Mercury	0.2	1	NE											**2.38**	
Selenium	10	20	NE	2.81 J											
Silver	10	20	NE		3.07 J		3.36 J				3.85 J				

Notes:

(1) ug/L = micrograms per liter (parts per billion)

(2) 15A NCAC 2L = North Carolina Groundwater Quality Standards

(3) GWP ST = Solid Waste Groundwater Protection Standard

(4) NE = No established standard

(5) Bold and highlighted indicates above 15A NCAC 2L or GWP ST

(6) J = Analyte was detected between the method detection limit (MDL) and the method reporting limit (MRL)

(7) Target analytes not shown were reported as below detection limits

(8) SWSL = North Carolina Department of Environmtent and Natural Resources Solid Waste Section Limit established in 2007

(9) B = Analyte was detected in associated method blank

Table 4
October 2011 - Detected Analytes in Surface Water Samples
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

EPA Volatile Organic Compounds Method 8260B (ug/L)	**15A NCAC 2B**	**SW-1**	**SW-2**	**SW-3**
1,1- Dichloroethane	20000			0.54 J
1,3,5-Trimethylbenzene	NE	1.4		
cis-1,2-Dichloroethene	4900		1	0.74 J
EPA RCRA Metals Method 6010B (ug/L)				
Barium	200000	75	206	323
Chromium	50		1.08 J	1.77 J

Notes:

(1) ug/L = micrograms per liter (parts per billion)

(2) 15A NCAC 2B = North Carolina Surface Water Quality Standards for Freshwater

(3) NE = No established standard

(4) Bold indicates above 15A NCAC 2B

(5) J = Analyte was detected between the method detection limit (MDL) and the method reporting limit (MRL)

(6) Target analytes not shown were reported as below detection limits

Table 5
October 2011 - Detected Analytes in Private Supply Wells
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

EPA RCRA Metals Method 6010B (ug/L)	15A NCAC 2L	Soild Waste GWP ST	PSW-1	PSW-3	PSW-6	PSW-16
Barium	700	NE	87.9	111	75.4	46.8
Chromium	2	NE		1.29 J	1.83 J	

Notes:

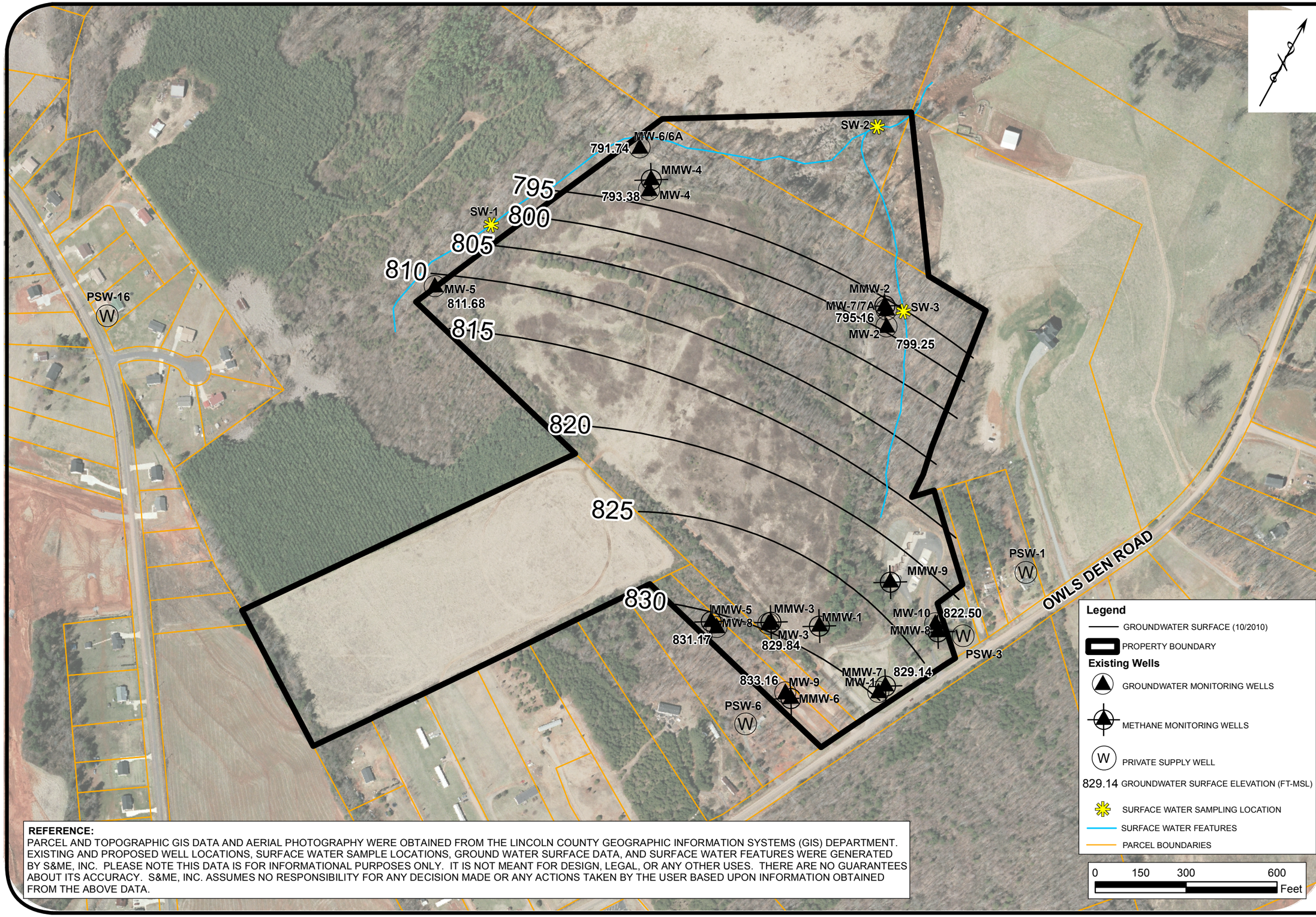
NE = No established standard

Table 6
October 2011 - Methane Readings in Methane Monitoring Wells
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

Methane Well Identification	Percent Methane	Percent Lower Explosive Limit
MMW-1	**Omitted From Monitoring Plan in 2008**	
MMW-2	**356**	**7,120**
MMW-3	**Omitted From Monitoring Plan in 2008**	
MMW-4	**749**	**14,980**
MMW-5	**5.3**	**106**
MMW-6	0	0
MMW-7	0	0
MMW-8	0	0
MMW-9	0	0

Notes:
Bold indicates concentrations at or above the Lower Explosive Limit of 5% Methane

FIGURES



REFERENCE:
PARCEL AND TOPOGRAPHIC GIS DATA AND AERIAL PHOTOGRAPHY WERE OBTAINED FROM THE LINCOLN COUNTY GEOGRAPHIC INFORMATION SYSTEMS (GIS) DEPARTMENT. EXISTING AND PROPOSED WELL LOCATIONS, SURFACE WATER SAMPLE LOCATIONS, GROUND WATER SURFACE DATA, AND SURFACE WATER FEATURES WERE GENERATED BY S&ME, INC. PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.

DATE: 12/8/2011
DRAWN BY: ELH
CHECKED BY: CWM
SCALE: 1" = 300'
PROJECT NO: 1356-07-006

S&ME
WWW.SMEINC.COM

GROUNDWATER ELEVATION MAP OCTOBER, 2011

OWLS DEN LANDFILL
LINCOLNTON, NORTH CAROLINA

FIGURE NO.
1

APPENDIX I

FIELD SAMPLING LOGS AND LABORATORY REPORTS

Surface Water Samples and Methane Readings
Owl's Den Landfill
S&ME Project 1356-07-006

Location	Date	Time Sampled	Sample Observations
SW-1	10.14.11	10:35	Slightly turbid
SW-2	10.14.11	10:25	Clear
SW-3	10.14.11	11:05	Slightly turbid

Location	Date	Time Sampled	Comments
PSW-1	10.14.11	13:45	
PSW-3	10.14.11	13:30	Submitted 2 VOAs, 1 was cracked
PSW-4			**ABANDONED**
PSW-5			**ABANDONED**
PSW-6	10.14.11	13:15	
PSW-16	10.14.11	13:00	

Location	% LEL	% Gas	Date and Time of Reading
MMW-1			**OMITTED FROM MONITORING PLAN**
MMW-2	356	17.8	10.14.11, 10:00
MMW-3			**OMITTED FROM MONITORING PLAN**
MMW-4	749	37.2	10.14.11, 11:15
MMW-5	106	5.3	10.14.11, 09:25
MMW-6	0	0	10.14.11, 09:15
MMW-7	0	0	10.14.11, 08:50
MMW-8	0	0	10.14.11, 09:00
MMW-9	0	0	10.14.11, 09:10

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-1

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.9
Depth to Water (ft) 36.55
Depth to Base of Well (ft) 47.50
(well casing volume = water column*0.174)
Water Column (ft) 10.95
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	10:16	7.31	17.4	29.8
	2.0	10:22	6.02	16.3	29.3
	4.0	10:27	5.55	16.2	29.9
Final	6.0	10:31	5.19	16.3	29.4

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 08:50
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-2

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 2.6
Depth to Water (ft) 25.71
Depth to Base of Well (ft) 40.50
(well casing volume = water column*0.174)
Water Column (ft) 14.79
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	13:30	5.94	17.5	447.9
	2.5	13:32	5.99	17.2	435.5
	5.0	13:34	5.96	17.1	417.9
Final	7.5	13:36	5.92	17.1	413.3

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 10:00
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-4

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 2.9
Depth to Water (ft) 40.52
Depth to Base of Well (ft) 57.10
(well casing volume = water column*0.174)
Water Column (ft) 16.58
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	13:54	5.81	17.7	1096
	3.0	13:56	5.88	16.9	1099
	6.0	14:00	5.95	16.8	1064
Final	9.0	14:04	5.98	16.9	1056

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 11:15
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-5

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.0
Depth to Water (ft) 27.42
Depth to Base of Well (ft) 33.20
(well casing volume = water column*0.174)
Water Column (ft) 5.78
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	14:26	7.17	16.9	70.5
	1.0	14:29	7.00	15.6	58.2
	2.0	14:32	6.65	15.3	59.5
Final	3.0	14:35	6.45	15.0	57.9

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 10:50
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-6

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.3
Depth to Water (ft) 16.81
Depth to Base of Well (ft) 24.11
(well casing volume = water column*0.174)
Water Column (ft) 7.30
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	14:52	6.18	16.1	626
	1.3	14:55	6.51	16.2	392.6
	2.6	14:57	6.25	16.1	489
Final	3.9	14:59	6.12	15.8	582

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 11:30
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-6A

Sampling Personnel	(1)	David Reames	(2)	Brian Wilson
Weather Conditions	Overcast - Light Rain			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	6.9
Depth to Water (ft)	18.56		
Depth to Base of Well (ft)	58.44	(well casing volume = water column*0.174)	
Water Column (ft)	39.88		
Equipment Used to Measure Depths	Electric Water Level Probe		

Well Purging Data

Date 10.13.11 Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	14:50	6.37	17.3	484
	7.0	14:56	6.28	15.9	555
	14.0	15:02	6.15	15.8	730
Final	21.0	15:11	6.15	15.9	791

Well Sampling Data

Sampling Date	10.14.11
Sampling Time	11:35
Sampling Equipment	Disposable Teflon Bailer
Sample Observations	clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-7

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 0.8
Depth to Water (ft) 23.28
Depth to Base of Well (ft) 27.97
(well casing volume = water column*0.174)
Water Column (ft) 4.69
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	13:08	5.76	17.2	449.3
	1.0	13:10	5.77	17.0	439.8
	2.0	13:12	5.79	17.0	441.2
Final	3.0	13:14	5.82	17.0	442.6

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 09:55
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-7A

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 5.6
Depth to Water (ft) 21.87
Depth to Base of Well (ft) 54.30
(well casing volume = water column*0.174)
Water Column (ft) 32.43
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	13:03	5.70	18.0	321.4
	5.5	13:07	5.84	17.4	313.2
	11.0	13:18	6.02	17.2	330.9
Final	Dry				

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 09:45
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill Assessment
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-8

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 1.2
Depth to Water (ft) 50.04
Depth to Base of Well (ft) 56.80
(well casing volume = water column*0.174)
Water Column (ft) 6.76
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	11:32	5.87	16.2	91.5
	1.2	11:35	5.64	15.2	65.61
	2.4	11:40	5.32	15.0	50.1
Final	3.6	11:44	5.18	14.9	48.2

Well Sampling Data

Sampling Date 10.14.11
Sampling Time 09:25
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill Assessment
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-9

Sampling Personnel (1) David Reames (2) Brian Wilson
Weather Conditions Overcast - Light Rain
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 2.2
Depth to Water (ft) 51.78
Depth to Base of Well (ft) 64.28
(well casing volume = water column*0.174)
Water Column (ft) 12.50
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 10.13.11
Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	11:00	5.42	16.8	199.7
	2.2	11:07	5.55	16.2	128.2
	4.4	11:14	5.52	16.1	125.1
Final	6.6	11:24	5.53	16.3	123.5

Well Sampling Data

Sampling Date 10/14/2011
Sampling Time 09:15
Sampling Equipment Disposable Teflon Bailer
Sample Observations Slightly Turbid

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments
Lab ENCO

Project Name: Owl's Den Landfill Assessment
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

Well ID MW-10

Sampling Personnel	(1)	David Reames	(2)	Brian Wilson
Weather Conditions	Overcast - Light Rain			
Unusual Site Conditions				

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	1.1
Depth to Water (ft)	44.61		
Depth to Base of Well (ft)	50.96	(well casing volume = water column*0.174)	
Water Column (ft)	6.35		
Equipment Used to Measure Depths	Electronic Water Level Probe		

Well Purging Data

Date 10/13/2011 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (ºC)	Conductance (µS)
Initial	0	10:41	5.52	16.6	35.4
	1.0	10:43	5.58	16.1	34.3
	2.0	10:47	5.25	16.1	33.7
Final	3.0	10:53	5.49	16.1	32.8

Well Sampling Data

Sampling Date	10/14/2011
Sampling Time	09:00
Sampling Equipment	Disposable Teflon Bailer
Sample Observations	Very Slightly Turbid

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Lab ENCO

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, October 27, 2011

S&ME, Inc. (SM002)

Attn: Courtney Murphy

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-07-006, Project Name/Desc: Owl's Den LF - Groundwater
ENCO Workorder: C111489

Dear Courtney Murphy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, October 15, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 62.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1 **Lab ID: C111489-01** **Sampled: 10/14/11 08:50** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 12:59
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:22
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 07:37

Client ID: MW-2 **Lab ID: C111489-02** **Sampled: 10/14/11 10:00** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:20
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:28
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 08:07

Client ID: MW-4 **Lab ID: C111489-03** **Sampled: 10/14/11 11:15** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:22
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:33
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 08:37

Client ID: MW-5 **Lab ID: C111489-04** **Sampled: 10/14/11 10:50** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:24
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:38
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 09:06

Client ID: MW-6 **Lab ID: C111489-05** **Sampled: 10/14/11 11:30** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:26
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:43
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 09:36

Client ID: MW-6A **Lab ID: C111489-06** **Sampled: 10/14/11 11:35** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:28
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:47
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 10:05

www.encolabs.com

Client ID: MW-7	Lab ID: C111489-07	Sampled: 10/14/11 09:55	Received: 10/15/11 09:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:30
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:51
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 10:35

Client ID: MW-7A	Lab ID: C111489-08	Sampled: 10/14/11 09:45	Received: 10/15/11 09:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:32
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:54
EPA 8260B	10/28/11	10/25/11 11:20	10/25/2011 21:11

Client ID: MW-8	Lab ID: C111489-09	Sampled: 10/14/11 09:25	Received: 10/15/11 09:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:34
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 16:57
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 11:43

Client ID: MW-9	Lab ID: C111489-10	Sampled: 10/14/11 09:15	Received: 10/15/11 09:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:46
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 17:06
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 12:13

Client ID: MW-10	Lab ID: C111489-11	Sampled: 10/14/11 09:00	Received: 10/15/11 09:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/17/11 12:19	10/25/2011 13:48
EPA 7470A	11/11/11	10/20/11 09:19	10/20/2011 17:08
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 12:42

Client ID: TRIP	Lab ID: C111489-12	Sampled: 10/14/11 08:50	Received: 10/15/11 09:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 13:14

www.encolabs.com

SAMPLE DETECTION SUMMARY

Client ID: MW-1 **Lab ID: C111489-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	134		1.00	10.0	ug/L	EPA 6010C	
Selenium - Total	2.81	J	2.70	10.0	ug/L	EPA 6010C	

Client ID: MW-2 **Lab ID: C111489-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	1.9		0.080	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.65	J	0.11	1.0	ug/L	EPA 8260B	
1,2-Dichloropropane	1.0		0.59	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	4.8		0.79	1.0	ug/L	EPA 8260B	
2-Chlorotoluene	1.4		0.071	1.0	ug/L	EPA 8260B	
Barium - Total	593		1.00	10.0	ug/L	EPA 6010C	
Cadmium - Total	1.94		0.360	1.00	ug/L	EPA 6010C	
Chlorobenzene	4.2		0.74	1.0	ug/L	EPA 8260B	
Chromium - Total	8.44	J	1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	3.2		0.72	1.0	ug/L	EPA 8260B	
Methyl-tert-Butyl Ether	1.3		0.58	1.0	ug/L	EPA 8260B	
Silver - Total	3.07	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: MW-4 **Lab ID: C111489-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	2.2		0.080	1.0	ug/L	EPA 8260B	
1,2,4-Trimethylbenzene	1.4		0.72	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	3.4		0.11	1.0	ug/L	EPA 8260B	
1,2-Dichloroethane	1.1		0.47	1.0	ug/L	EPA 8260B	
1,2-Dichloropropane	0.80	J	0.59	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene	0.95	J	0.79	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	12		0.79	1.0	ug/L	EPA 8260B	
2-Chlorotoluene	0.73	J	0.071	1.0	ug/L	EPA 8260B	
Acetone	2.5	J	1.2	5.0	ug/L	EPA 8260B	
Barium - Total	635		1.00	10.0	ug/L	EPA 6010C	
Benzene	1.3		0.68	1.0	ug/L	EPA 8260B	
Chlorobenzene	8.5		0.74	1.0	ug/L	EPA 8260B	
Chloroethane	2.6		0.75	1.0	ug/L	EPA 8260B	
Chromium - Total	4.06	J	1.00	10.0	ug/L	EPA 6010C	
Silver - Total	3.36	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: MW-5 **Lab ID: C111489-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	78.5		1.00	10.0	ug/L	EPA 6010C	

Client ID: MW-6 **Lab ID: C111489-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dichlorobenzene	1.4		0.79	1.0	ug/L	EPA 8260B	
Barium - Total	206		1.00	10.0	ug/L	EPA 6010C	
Chlorobenzene	3.0		0.74	1.0	ug/L	EPA 8260B	
Chromium - Total	1.90	J	1.00	10.0	ug/L	EPA 6010C	

Client ID: MW-6A **Lab ID: C111489-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	2.4		0.080	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	3.2		0.11	1.0	ug/L	EPA 8260B	
1,2-Dichloroethane	0.74	J	0.47	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene	0.92	J	0.79	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	11		0.79	1.0	ug/L	EPA 8260B	
Barium - Total	924		1.00	10.0	ug/L	EPA 6010C	
Benzene	0.74	J	0.68	1.0	ug/L	EPA 8260B	
Chlorobenzene	11		0.74	1.0	ug/L	EPA 8260B	
Chromium - Total	2.32	J	1.00	10.0	ug/L	EPA 6010C	

Client ID: MW-7 **Lab ID: C111489-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.73	J	0.080	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.61	J	0.11	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	5.5		0.79	1.0	ug/L	EPA 8260B	
2-Chlorotoluene	1.1		0.071	1.0	ug/L	EPA 8260B	
Acetone	5.4		1.2	5.0	ug/L	EPA 8260B	
Barium - Total	580		1.00	10.0	ug/L	EPA 6010C	
Benzene	0.96	J	0.68	1.0	ug/L	EPA 8260B	
Cadmium - Total	3.73		0.360	1.00	ug/L	EPA 6010C	
Chlorobenzene	3.1		0.74	1.0	ug/L	EPA 8260B	
Chromium - Total	7.43	J	1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	2.0		0.72	1.0	ug/L	EPA 8260B	
Methyl-tert-Butyl Ether	0.66	J	0.58	1.0	ug/L	EPA 8260B	
Silver - Total	3.85	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: MW-7A **Lab ID: C111489-08**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.66	J	0.080	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.44	J	0.11	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.4		0.79	1.0	ug/L	EPA 8260B	
2-Chlorotoluene	0.58	J	0.071	1.0	ug/L	EPA 8260B	
Barium - Total	390		1.00	10.0	ug/L	EPA 6010C	
Chlorobenzene	2.6		0.74	1.0	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	2.4		0.72	1.0	ug/L	EPA 8260B	
Trichloroethene	1.0		0.72	1.0	ug/L	EPA 8260B	

Client ID: MW-8 **Lab ID: C111489-09**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Chlorotoluene	1.3		0.071	1.0	ug/L	EPA 8260B	
Barium - Total	212		1.00	10.0	ug/L	EPA 6010C	

Client ID: MW-9 **Lab ID: C111489-10**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.69	J	0.080	1.0	ug/L	EPA 8260B	
Barium - Total	311		1.00	10.0	ug/L	EPA 6010C	
Cadmium - Total	0.408	J	0.360	1.00	ug/L	EPA 6010C	
Chromium - Total	1.72	J	1.00	10.0	ug/L	EPA 6010C	
Mercury - Total	2.38		0.170	0.200	ug/L	EPA 7470A	

www.encolabs.com

Client ID: MW-10			Lab ID: C111489-11				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Barium - Total	121		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total	5.65	J	1.00	10.0	ug/L	EPA 6010C	

www.encolabs.com

ANALYTICAL RESULTS

Description: MW-1 **Lab Sample ID:** C111489-01 **Received:** 10/15/11 09:05

Matrix: Ground Water **Sampled:** 10/14/11 08:50 **Work Order:** C111489

Project: Owl's Den LF - Groundwater **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	

www.encolabs.com

Description: MW-1 | **Lab Sample ID:** C111489-01 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 08:50 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 07:37	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 07:37*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 07:37*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 07:37*	*jkg*	

www.encolabs.com

Description:	MW-1	**Lab Sample ID:**	C111489-01	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 08:50	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:22	NLH	

www.encolabs.com

Description: MW-1 | **Lab Sample ID:** C111489-01 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 08:50 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 12:59	JDH	
Barium [7440-39-3] ^	**134**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 12:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 12:59	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 12:59	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 12:59	JDH	
Selenium [7782-49-2] ^	**2.81**	J	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 12:59	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 12:59	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-2 | **Lab Sample ID:** C111489-02 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 10:00 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,1-Dichloroethane [75-34-3] ^	**1.9**		ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2-Dichlorobenzene [95-50-1] ^	**0.65**	J	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,2-Dichloropropane [78-87-5] ^	**1.0**		ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**4.8**		ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
2-Chlorotoluene [95-49-8] ^	**1.4**		ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Chlorobenzene [108-90-7] ^	**4.2**		ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**3.2**		ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	**1.3**		ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	

www.encolabs.com

Description: MW-2 | **Lab Sample ID:** C111489-02 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 10:00 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 08:07	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 08:07*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 08:07*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 08:07*	*jkg*	

www.encolabs.com

Description:	MW-2	**Lab Sample ID:**	C111489-02	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 10:00	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:28	NLH	

www.encolabs.com

Description: MW-2 | **Lab Sample ID:** C111489-02 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 10:00 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:20	JDH	
Barium [7440-39-3] ^	**593**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:20	JDH	
Cadmium [7440-43-9] ^	**1.94**		ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:20	JDH	
Chromium [7440-47-3] ^	**8.44**	J	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:20	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:20	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:20	JDH	
Silver [7440-22-4] ^	**3.07**	J	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:20	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-4 | **Lab Sample ID:** C111489-03 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 11:15 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,1-Dichloroethane [75-34-3] ^	**2.2**		ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	**1.4**		ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2-Dichlorobenzene [95-50-1] ^	**3.4**		ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2-Dichloroethane [107-06-2] ^	**1.1**		ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,2-Dichloropropane [78-87-5] ^	**0.80**	J	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,3-Dichlorobenzene [541-73-1] ^	**0.95**	J	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**12**		ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
2-Chlorotoluene [95-49-8] ^	**0.73**	J	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Acetone [67-64-1] ^	**2.5**	J	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Benzene [71-43-2] ^	**1.3**		ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Chlorobenzene [108-90-7] ^	**8.5**		ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Chloroethane [75-00-3] ^	**2.6**		ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	

www.encolabs.com

Description: MW-4 | **Lab Sample ID:** C111489-03 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 11:15 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 08:37	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 08:37*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 08:37*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*113 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 08:37*	*jkg*	

www.encolabs.com

Description:	MW-4	**Lab Sample ID:**	C111489-03	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 11:15	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:33	NLH	

www.encolabs.com

Description: MW-4 | **Lab Sample ID:** C111489-03 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 11:15 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:22	JDH	
Barium [7440-39-3] ^	**635**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:22	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:22	JDH	
Chromium [7440-47-3] ^	**4.06**	J	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:22	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:22	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:22	JDH	
Silver [7440-22-4] ^	**3.36**	J	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:22	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-5 | **Lab Sample ID:** C111489-04 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 10:50 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	

www.encolabs.com

Description: MW-5 | **Lab Sample ID:** C111489-04 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 10:50 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 09:06	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 09:06*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 09:06*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 09:06*	*jkg*	

www.encolabs.com

Description:	MW-5	**Lab Sample ID:**	C111489-04	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 10:50	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:38	NLH	

www.encolabs.com

Description: MW-5 | **Lab Sample ID:** C111489-04 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 10:50 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:24	JDH	
Barium [7440-39-3] ^	**78.5**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:24	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:24	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:24	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:24	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:24	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:24	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-6 | **Lab Sample ID:** C111489-05 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 11:30 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**1.4**		ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Chlorobenzene [108-90-7] ^	**3.0**		ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	

www.encolabs.com

Description: MW-6 | **Lab Sample ID:** C111489-05 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 11:30 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 09:36	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 09:36*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 09:36*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 09:36*	*jkg*	

www.encolabs.com

Description:	MW-6	**Lab Sample ID:**	C111489-05	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 11:30	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:43	NLH	

www.encolabs.com

Description: MW-6 | **Lab Sample ID:** C111489-05 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 11:30 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:26	JDH	
Barium [7440-39-3] ^	**206**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:26	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:26	JDH	
Chromium [7440-47-3] ^	**1.90**	J	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:26	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:26	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:26	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:26	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-6A | **Lab Sample ID:** C111489-06 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 11:35 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,1-Dichloroethane [75-34-3] ^	**2.4**		ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2-Dichlorobenzene [95-50-1] ^	**3.2**		ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2-Dichloroethane [107-06-2] ^	**0.74**	J	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,3-Dichlorobenzene [541-73-1] ^	**0.92**	J	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**11**		ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Benzene [71-43-2] ^	**0.74**	J	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Chlorobenzene [108-90-7] ^	**11**		ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	

www.encolabs.com

Description: MW-6A
Matrix: Ground Water
Project: Owl's Den LF - Groundwater

Lab Sample ID: C111489-06
Sampled: 10/14/11 11:35
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111489

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 10:05	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 10:05*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 10:05*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 10:05*	*jkg*	

www.encolabs.com

Description:	MW-6A	**Lab Sample ID:**	C111489-06	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 11:35	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:47	NLH	

www.encolabs.com

Description: MW-6A
Matrix: Ground Water
Project: Owl's Den LF - Groundwater

Lab Sample ID: C111489-06
Sampled: 10/14/11 11:35
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111489

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:28	JDH	
Barium [7440-39-3] ^	**924**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:28	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:28	JDH	
Chromium [7440-47-3] ^	**2.32**	J	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:28	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:28	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:28	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:28	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-7 | **Lab Sample ID:** C111489-07 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:55 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.73**	J	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2-Dichlorobenzene [95-50-1] ^	**0.61**	J	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**5.5**		ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
2-Chlorotoluene [95-49-8] ^	**1.1**		ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Acetone [67-64-1] ^	**5.4**		ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Benzene [71-43-2] ^	**0.96**	J	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Chlorobenzene [108-90-7] ^	**3.1**		ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**2.0**		ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	**0.66**	J	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	

www.encolabs.com

Description: MW-7 | **Lab Sample ID:** C111489-07 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:55 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 10:35	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*59*	*1*	*50.0*	*117 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 10:35*	*jkg*	
Dibromofluoromethane	*56*	*1*	*50.0*	*111 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 10:35*	*jkg*	
Toluene-d8	*57*	*1*	*50.0*	*114 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 10:35*	*jkg*	

www.encolabs.com

Description:	MW-7	**Lab Sample ID:**	C111489-07	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 09:55	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:51	NLH	

www.encolabs.com

Description: MW-7 | **Lab Sample ID:** C111489-07 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:55 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:30	JDH	
Barium [7440-39-3] ^	**580**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:30	JDH	
Cadmium [7440-43-9] ^	**3.73**		ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:30	JDH	
Chromium [7440-47-3] ^	**7.43**	J	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:30	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:30	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:30	JDH	
Silver [7440-22-4] ^	**3.85**	J	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:30	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-7A
Matrix: Ground Water
Project: Owl's Den LF - Groundwater

Lab Sample ID: C111489-08
Sampled: 10/14/11 09:45
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111489

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.66**	J	ug/L	1	0.080	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2-Dichlorobenzene [95-50-1] ^	**0.44**	J	ug/L	1	0.11	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
1,4-Dichlorobenzene [106-46-7] ^	**3.4**		ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
2-Chlorotoluene [95-49-8] ^	**0.58**	J	ug/L	1	0.071	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Chlorobenzene [108-90-7] ^	**2.6**		ug/L	1	0.74	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**2.4**		ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	

www.encolabs.com

Description: MW-7A
Matrix: Ground Water
Project: Owl's Den LF - Groundwater

Lab Sample ID: C111489-08
Sampled: 10/14/11 09:45
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111489

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Trichloroethene [79-01-6] ^	**1.0**		ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J25011	EPA 8260B	10/25/11 21:11	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J25011*	*EPA 8260B*	*10/25/11 21:11*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*1J25011*	*EPA 8260B*	*10/25/11 21:11*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J25011*	*EPA 8260B*	*10/25/11 21:11*	*jkg*	

www.encolabs.com

Description:	MW-7A	**Lab Sample ID:**	C111489-08	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 09:45	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:54	NLH	

www.encolabs.com

Description: MW-7A
Matrix: Ground Water
Project: Owl's Den LF - Groundwater

Lab Sample ID: C111489-08
Sampled: 10/14/11 09:45
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111489

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:32	JDH	
Barium [7440-39-3] ^	**390**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:32	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:32	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:32	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:32	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:32	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:32	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-8 | **Lab Sample ID:** C111489-09 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:25 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
2-Chlorotoluene [95-49-8] ^	**1.3**		ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	

www.encolabs.com

Description: MW-8 | **Lab Sample ID:** C111489-09 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:25 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 11:43	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 11:43*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*107 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 11:43*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 11:43*	*jkg*	

www.encolabs.com

Description:	MW-8	**Lab Sample ID:**	C111489-09	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 09:25	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 16:57	NLH	

www.encolabs.com

Description: MW-8 | **Lab Sample ID:** C111489-09 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:25 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:34	JDH	
Barium [7440-39-3] ^	**212**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:34	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:34	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:34	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:34	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:34	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:34	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-9 | **Lab Sample ID:** C111489-10 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:15 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.69**	J	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	

www.encolabs.com

Description: MW-9 | **Lab Sample ID:** C111489-10 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:15 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 12:13	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*116 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 12:13*	*jkg*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 12:13*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 12:13*	*jkg*	

www.encolabs.com

Description:	MW-9	**Lab Sample ID:**	C111489-10	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 09:15	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**2.38**		ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 17:06	NLH	

www.encolabs.com

Description: MW-9 | **Lab Sample ID:** C111489-10 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:15 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:46	JDH	
Barium [7440-39-3] ^	**311**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:46	JDH	
Cadmium [7440-43-9] ^	**0.408**	J	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:46	JDH	
Chromium [7440-47-3] ^	**1.72**	J	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:46	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:46	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:46	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:46	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-10 | **Lab Sample ID:** C111489-11 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:00 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	

www.encolabs.com

Description: MW-10 | **Lab Sample ID:** C111489-11 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:00 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 12:42	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 12:42*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 12:42*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 12:42*	*jkg*	

www.encolabs.com

Description:	MW-10	**Lab Sample ID:**	C111489-11	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 09:00	**Work Order:**	C111489
Project:	Owl's Den LF - Groundwater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J20007	EPA 7470A	10/20/11 17:08	NLH	

www.encolabs.com

Description: MW-10 | **Lab Sample ID:** C111489-11 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 09:00 | **Work Order:** C111489

Project: Owl's Den LF - Groundwater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J17018	EPA 6010C	10/25/11 13:48	JDH	
Barium [7440-39-3] ^	**121**		ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:48	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J17018	EPA 6010C	10/25/11 13:48	JDH	
Chromium [7440-47-3] ^	**5.65**	J	ug/L	1	1.00	10.0	1J17018	EPA 6010C	10/25/11 13:48	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:48	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J17018	EPA 6010C	10/25/11 13:48	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J17018	EPA 6010C	10/25/11 13:48	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: TRIP
Matrix: Water
Project: Owl's Den LF - Groundwater

Lab Sample ID: C111489-12
Sampled: 10/14/11 08:50
Sampled By: ENCO

Received: 10/15/11 09:05
Work Order: C111489

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	

www.encolabs.com

Description: TRIP
Matrix: Water
Project: Owl's Den LF - Groundwater

Lab Sample ID: C111489-12
Sampled: 10/14/11 08:50
Sampled By: ENCO

Received: 10/15/11 09:05
Work Order: C111489

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 13:14	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*112 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 13:14*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 13:14*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 13:14*	*jkg*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J24025 - EPA 5030B_MS

Blank (1J24025-BLK1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 04:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J24025 - EPA 5030B_MS

Blank (1J24025-BLK1) Continued Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 04:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*57*			*ug/L*	*50.0*		*114*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*68-117*			
Surrogate: Toluene-d8	*56*			*ug/L*	*50.0*		*112*	*67-127*			

LCS (1J24025-BS1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 05:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	19		1.0	ug/L	20.0		94	75-115			

Matrix Spike (1J24025-MS1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 05:39

Source: C112996-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.60 U	105	75-133			
Benzene	20		1.0	ug/L	20.0	0.68 U	99	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	98	83-117			
Toluene	19		1.0	ug/L	20.0	0.85 U	97	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	107	75-115			

Matrix Spike Dup (1J24025-MSD1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 06:09

Source: C112996-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.60 U	102	75-133	3	20	
Benzene	19		1.0	ug/L	20.0	0.68 U	97	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	96	83-117	2	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	94	71-118	4	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J24025 - EPA 5030B_MS

Matrix Spike Dup (1J24025-MSD1) Continued Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 06:09

Source: C112996-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	106	75-115	1	18	

Batch 1J25011 - EPA 5030B_MS

Blank (1J25011-BLK1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 17:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J25011 - EPA 5030B_MS

Blank (1J25011-BLK1) Continued Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 17:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*115*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*68-117*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*111*	*67-127*			

LCS (1J25011-BS1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 18:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		106	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	19		1.0	ug/L	20.0		96	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			

Matrix Spike (1J25011-MS1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 18:43

Source: C113121-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	111	75-133			
Benzene	21		1.0	ug/L	20.0	0.68 U	107	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	105	83-117			
Toluene	21		1.0	ug/L	20.0	0.85 U	103	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	110	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J25011 - EPA 5030B_MS

Matrix Spike Dup (1J25011-MSD1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 19:13

Source: C113121-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.60 U	99	75-133	11	20	
Benzene	19		1.0	ug/L	20.0	0.68 U	95	81-134	12	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	95	83-117	10	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	93	71-118	10	17	
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	100	75-115	10	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1J20007 - EPA 245.1

Blank (1J20007-BLK1) Prepared: 10/20/2011 09:19 Analyzed: 10/20/2011 15:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1J20007-BS1) Prepared: 10/20/2011 09:19 Analyzed: 10/20/2011 15:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.89		0.200	ug/L	5.00		98	85-115			

Matrix Spike (1J20007-MS1) Prepared: 10/20/2011 09:19 Analyzed: 10/20/2011 16:05

Source: C112732-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.64		0.200	ug/L	5.00	0.170 U	93	85-115			

Matrix Spike Dup (1J20007-MSD1) Prepared: 10/20/2011 09:19 Analyzed: 10/20/2011 16:09

Source: C112732-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.85		0.200	ug/L	5.00	0.170 U	97	85-115	4	15	

Post Spike (1J20007-PS1) Prepared: 10/20/2011 09:19 Analyzed: 10/20/2011 16:19

Source: C112732-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.05		0.200	ug/L	5.00	0.0395	80	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1J17018 - EPA 3005A

Blank (1J17018-BLK1) Prepared: 10/17/2011 12:19 Analyzed: 10/25/2011 12:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1J17018 - EPA 3005A

Blank (1J17018-BLK1) Continued Prepared: 10/17/2011 12:19 Analyzed: 10/25/2011 12:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							

LCS (1J17018-BS1) Prepared: 10/17/2011 12:19 Analyzed: 10/25/2011 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	204		10.0	ug/L	200		102	80-120			
Barium	216		10.0	ug/L	200		108	80-120			
Cadmium	21.2		1.00	ug/L	20.0		106	80-120			
Chromium	200		10.0	ug/L	200		100	80-120			
Lead	209		10.0	ug/L	200		105	80-120			
Selenium	210		10.0	ug/L	200		105	80-120			
Silver	204		10.0	ug/L	200		102	80-120			

Matrix Spike (1J17018-MS1) Prepared: 10/17/2011 12:19 Analyzed: 10/25/2011 13:01

Source: C111489-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	197		10.0	ug/L	200	2.80 U	99	75-125			
Barium	326		10.0	ug/L	200	134	96	75-125			
Cadmium	20.2		1.00	ug/L	20.0	0.360 U	101	75-125			
Chromium	193		10.0	ug/L	200	1.00 U	97	75-125			
Lead	199		10.0	ug/L	200	1.90 U	100	75-125			
Selenium	191		10.0	ug/L	200	2.81	94	75-125			
Silver	196		10.0	ug/L	200	1.90 U	98	75-125			

Matrix Spike Dup (1J17018-MSD1) Prepared: 10/17/2011 12:19 Analyzed: 10/25/2011 13:03

Source: C111489-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	195		10.0	ug/L	200	2.80 U	97	75-125	1	20	
Barium	332		10.0	ug/L	200	134	99	75-125	2	20	
Cadmium	20.3		1.00	ug/L	20.0	0.360 U	101	75-125	0.4	20	
Chromium	196		10.0	ug/L	200	1.00 U	98	75-125	1	20	
Lead	201		10.0	ug/L	200	1.90 U	100	75-125	0.6	20	
Selenium	197		10.0	ug/L	200	2.81	97	75-125	3	20	
Silver	199		10.0	ug/L	200	1.90 U	99	75-125	2	20	

Post Spike (1J17018-PS1) Prepared: 10/17/2011 12:19 Analyzed: 10/25/2011 13:05

Source: C111489-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.187		0.0100	mg/L	0.200	0.000776	93	80-120			
Barium	0.317		0.0100	mg/L	0.200	0.134	92	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1J17018 - EPA 3005A

Post Spike (1J17018-PS1) Continued Prepared: 10/17/2011 12:19 Analyzed: 10/25/2011 13:05

Source: C111489-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.0194		0.00100	mg/L	0.0200	2.67E-5	97	80-120			
Chromium	0.186		0.0100	mg/L	0.200	0.000677	93	80-120			
Lead	0.191		0.0100	mg/L	0.200	0.000922	95	80-120			
Selenium	0.187		0.0100	mg/L	0.200	0.00281	92	80-120			
Silver	0.189		0.0100	mg/L	0.200	0.000341	94	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 2

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Owl's Den LF - Groundwater
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: 55370
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney ~~Withers~~ Murphy
Sampler(s) Name, Affiliation (Print): [illegible] / S&ME Inc	Billing Contact: Barbara Ellington
Sampler(s) Signature: [illegible]	Site Location / Time Zone: Lincolnton, NC

Requested Analyses: 8260B; Ag,As,Ba,Cd,Cr,Pb,Se; Hg

Requested Turnaround Times: Note : Rush requests subject to acceptance by the facility — X Standard — ___ Expedited — Due __/__/__

Lab Workorder: C111489

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Ag,As,Ba,Cd,Cr,Pb,Se	Hg	Sample Comments
	MW-1	10-14-11	0850	G	GW	4	X	X	X	
	MW-2	10-14-11	1000		GW	4	X	X	X	
	~~MW-3~~				~~GW~~	~~4~~	~~X~~	~~X~~	~~X~~	NOT SAMPLED
	MW-4	10/14/11	1115		GW	4	X	X	X	
	MW-5	10/14/11	1050		GW	4	X	X	X	
	MW-6	10/14/11	1130		GW	4	X	X	X	
	MW-6A	10/14/11	1135		GW	4	X	X	X	
	MW-7	10/14/11	0955		GW	4	X	X	X	
	MW-7A	10-14-11	0945		GW	4	X	X	X	
	MW-8	10-14-11	0925		GW	4	X	X	X	
	MW-9	10-14-11	0915		GW	4	X	X	X	
	MW-10	10-14-11	0900		GW	4	X	X	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Briana Gregory	9/20/11	[illegible]	10-14-11 1160		
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: UPS Stamps	Date/Time: 10/15/11 905
		Cooler #'s & Temps on Receipt: C-835 0.6°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Page 2 of 2

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Owl's Den LF - Groundwater
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: 55370
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney ~~Withers~~ Murphy
Sampler(s) Name, Affiliation (Print): David Reeves / S&ME Inc	Billing Contact: Barbara Ellington
Sampler(s) Signature: [signature]	Site Location / Time Zone: Lincolnton, NC

Requested Analyses: 8260B; Ag,As,Ba,Cd,Cr,Pb,Se; Hg

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C111489

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Ag,As,Ba,Cd,Cr,Pb,Se	Hg	Sample Comments
	TRIP	10-14-11	—	G	WA	2	X			

<-- Total # of Containers

Sample Kit Prepared By: Briana Gregory	Date/Time: 9/20/11	Relinquished By: [signature]	Date/Time: 10-14-11 1600	Received By:	Date/Time:
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By: M E Stamper	Date/Time: 10/15/11 905
		Cooler #'s & Temps on Receipt: C-835 0.6°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, October 27, 2011

S&ME, Inc. (SM002)

Attn: Courtney Murphy

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-07-006, Project Name/Desc: Owl's Den LF - Surfacewater
ENCO Workorder: C111490

Dear Courtney Murphy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, October 15, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 41.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-3 **Lab ID: C111490-01** **Sampled: 10/14/11 10:35** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/24/11 09:36	10/26/2011 11:25
EPA 7470A	11/11/11	10/18/11 09:59	10/18/2011 16:10
EPA 8260B	10/28/11	10/24/11 11:17	10/25/2011 13:45

Client ID: SW-2 **Lab ID: C111490-02** **Sampled: 10/14/11 10:25** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/24/11 09:36	10/26/2011 11:34
EPA 7470A	11/11/11	10/18/11 09:59	10/18/2011 16:13
EPA 8260B	10/28/11	10/25/11 10:45	10/25/2011 21:41

Client ID: SW-1 **Lab ID: C111490-03** **Sampled: 10/14/11 11:05** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/24/11 09:36	10/26/2011 11:42
EPA 7470A	11/11/11	10/18/11 09:59	10/18/2011 16:16
EPA 8260B	10/28/11	10/25/11 10:45	10/25/2011 22:11

Client ID: PSW-16 **Lab ID: C111490-04** **Sampled: 10/14/11 13:00** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/24/11 09:36	10/26/2011 11:43
EPA 7470A	11/11/11	10/18/11 09:59	10/18/2011 16:19
EPA 8260B	10/28/11	10/25/11 10:45	10/25/2011 22:41

Client ID: PSW-6 **Lab ID: C111490-05** **Sampled: 10/14/11 13:15** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/24/11 09:36	10/26/2011 11:45
EPA 7470A	11/11/11	10/18/11 09:59	10/18/2011 16:28
EPA 8260B	10/28/11	10/25/11 10:45	10/25/2011 23:10

Client ID: PSW-3 **Lab ID: C111490-06** **Sampled: 10/14/11 13:30** **Received: 10/15/11 09:05**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/24/11 09:36	10/26/2011 11:47
EPA 7470A	11/11/11	10/18/11 09:59	10/18/2011 16:31
EPA 8260B	10/28/11	10/25/11 10:45	10/25/2011 23:40

www.encolabs.com

Client ID: PSW-1	Lab ID: C111490-07	Sampled: 10/14/11 13:45	Received: 10/15/11 09:05

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/11/12	10/24/11 09:36	10/26/2011 11:49
EPA 7470A	11/11/11	10/18/11 09:59	10/18/2011 16:34
EPA 8260B	10/28/11	10/25/11 10:45	10/26/2011 00:10

www.encolabs.com

SAMPLE DETECTION SUMMARY

Client ID: SW-3 **Lab ID: C111490-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.54	J	0.080	1.0	ug/L	EPA 8260B	
Barium - Total	323		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total	1.77	J	1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.74	J	0.72	1.0	ug/L	EPA 8260B	

Client ID: SW-2 **Lab ID: C111490-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	206		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total	1.08	J	1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.0		0.72	1.0	ug/L	EPA 8260B	

Client ID: SW-1 **Lab ID: C111490-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,3,5-Trimethylbenzene	1.4		0.067	1.0	ug/L	EPA 8260B	
Barium - Total	75.0		1.00	10.0	ug/L	EPA 6010C	

Client ID: PSW-16 **Lab ID: C111490-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	46.8		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total	2.29	J	1.00	10.0	ug/L	EPA 6010C	

Client ID: PSW-6 **Lab ID: C111490-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	75.4		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total	1.83	J	1.00	10.0	ug/L	EPA 6010C	

Client ID: PSW-3 **Lab ID: C111490-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	111		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total	1.29	J	1.00	10.0	ug/L	EPA 6010C	

Client ID: PSW-1 **Lab ID: C111490-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	87.9		1.00	10.0	ug/L	EPA 6010C	

www.encolabs.com

ANALYTICAL RESULTS

Description: SW-3 | **Lab Sample ID:** C111490-01 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 10:35 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.54**	J	ug/L	1	0.080	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**0.74**	J	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	

www.encolabs.com

Description: SW-3
Matrix: Surface Water
Project: Owl's Den LF - Surfacewater

Lab Sample ID: C111490-01
Sampled: 10/14/11 10:35
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111490

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J24025	EPA 8260B	10/25/11 13:45	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*51-122*	*1J24025*	*EPA 8260B*	*10/25/11 13:45*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*1J24025*	*EPA 8260B*	*10/25/11 13:45*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J24025*	*EPA 8260B*	*10/25/11 13:45*	*jkg*	

www.encolabs.com

Description:	SW-3	**Lab Sample ID:**	C111490-01	**Received:**	10/15/11 09:05
Matrix:	Surface Water	**Sampled:**	10/14/11 10:35	**Work Order:**	C111490
Project:	Owl's Den LF - Surfacewater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J18010	EPA 7470A	10/18/11 16:10	NLH	

www.encolabs.com

Description: SW-3 | **Lab Sample ID:** C111490-01 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 10:35 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J24013	EPA 6010C	10/26/11 11:25	JDH	
Barium [7440-39-3] ^	**323**		ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J24013	EPA 6010C	10/26/11 11:25	JDH	
Chromium [7440-47-3] ^	**1.77**	J	ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:25	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:25	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J24013	EPA 6010C	10/26/11 11:25	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:25	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SW-2 | **Lab Sample ID:** C111490-02 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 10:25 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**1.0**		ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	

www.encolabs.com

Description: SW-2 | **Lab Sample ID:** C111490-02 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 10:25 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J25011	EPA 8260B	10/25/11 21:41	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J25011*	*EPA 8260B*	*10/25/11 21:41*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*1J25011*	*EPA 8260B*	*10/25/11 21:41*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J25011*	*EPA 8260B*	*10/25/11 21:41*	*jkg*	

www.encolabs.com

Description:	SW-2	**Lab Sample ID:**	C111490-02	**Received:**	10/15/11 09:05
Matrix:	Surface Water	**Sampled:**	10/14/11 10:25	**Work Order:**	C111490
Project:	Owl's Den LF - Surfacewater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J18010	EPA 7470A	10/18/11 16:13	NLH	

www.encolabs.com

Description: SW-2 | **Lab Sample ID:** C111490-02 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 10:25 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J24013	EPA 6010C	10/26/11 11:34	JDH	
Barium [7440-39-3] ^	**206**		ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:34	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J24013	EPA 6010C	10/26/11 11:34	JDH	
Chromium [7440-47-3] ^	**1.08**	J	ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:34	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:34	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J24013	EPA 6010C	10/26/11 11:34	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:34	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SW-1 | **Lab Sample ID:** C111490-03 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 11:05 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	**1.4**		ug/L	1	0.067	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	

www.encolabs.com

Description: SW-1 | **Lab Sample ID:** C111490-03 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 11:05 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J25011	EPA 8260B	10/25/11 22:11	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J25011*	*EPA 8260B*	*10/25/11 22:11*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*1J25011*	*EPA 8260B*	*10/25/11 22:11*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J25011*	*EPA 8260B*	*10/25/11 22:11*	*jkg*	

www.encolabs.com

Description:	SW-1	**Lab Sample ID:**	C111490-03	**Received:**	10/15/11 09:05
Matrix:	Surface Water	**Sampled:**	10/14/11 11:05	**Work Order:**	C111490
Project:	Owl's Den LF - Surfacewater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J18010	EPA 7470A	10/18/11 16:16	NLH	

www.encolabs.com

Description: SW-1 | **Lab Sample ID:** C111490-03 | **Received:** 10/15/11 09:05

Matrix: Surface Water | **Sampled:** 10/14/11 11:05 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J24013	EPA 6010C	10/26/11 11:42	JDH	
Barium [7440-39-3] ^	**75.0**		ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:42	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J24013	EPA 6010C	10/26/11 11:42	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:42	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:42	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J24013	EPA 6010C	10/26/11 11:42	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:42	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: PSW-16 | **Lab Sample ID:** C111490-04 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:00 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	

www.encolabs.com

Description: PSW-16 | **Lab Sample ID:** C111490-04 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:00 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J25011	EPA 8260B	10/25/11 22:41	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J25011*	*EPA 8260B*	*10/25/11 22:41*	*jkg*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*1J25011*	*EPA 8260B*	*10/25/11 22:41*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*67-127*	*1J25011*	*EPA 8260B*	*10/25/11 22:41*	*jkg*	

www.encolabs.com

Description: PSW-16
Matrix: Ground Water
Project: Owl's Den LF - Surfacewater

Lab Sample ID: C111490-04
Sampled: 10/14/11 13:00
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111490

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J18010	EPA 7470A	10/18/11 16:19	NLH	

www.encolabs.com

Description: PSW-16 | **Lab Sample ID:** C111490-04 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:00 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J24013	EPA 6010C	10/26/11 11:43	JDH	
Barium [7440-39-3] ^	**46.8**		ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:43	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J24013	EPA 6010C	10/26/11 11:43	JDH	
Chromium [7440-47-3] ^	**2.29**	J	ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:43	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:43	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J24013	EPA 6010C	10/26/11 11:43	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:43	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: PSW-6 | **Lab Sample ID:** C111490-05 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:15 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	

www.encolabs.com

Description: PSW-6 | **Lab Sample ID:** C111490-05 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:15 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J25011	EPA 8260B	10/25/11 23:10	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*116 %*	*51-122*	*1J25011*	*EPA 8260B*	*10/25/11 23:10*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*1J25011*	*EPA 8260B*	*10/25/11 23:10*	*jkg*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*67-127*	*1J25011*	*EPA 8260B*	*10/25/11 23:10*	*jkg*	

www.encolabs.com

Description: PSW-6
Matrix: Ground Water
Project: Owl's Den LF - Surfacewater

Lab Sample ID: C111490-05
Sampled: 10/14/11 13:15
Sampled By: David Reames

Received: 10/15/11 09:05
Work Order: C111490

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J18010	EPA 7470A	10/18/11 16:28	NLH	

www.encolabs.com

Description: PSW-6 | **Lab Sample ID:** C111490-05 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:15 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J24013	EPA 6010C	10/26/11 11:45	JDH	
Barium [7440-39-3] ^	**75.4**		ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:45	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J24013	EPA 6010C	10/26/11 11:45	JDH	
Chromium [7440-47-3] ^	**1.83**	J	ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:45	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:45	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J24013	EPA 6010C	10/26/11 11:45	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:45	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: PSW-3 | **Lab Sample ID:** C111490-06 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:30 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	

www.encolabs.com

Description: PSW-3 | **Lab Sample ID:** C111490-06 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:30 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J25011	EPA 8260B	10/25/11 23:40	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*51-122*	*1J25011*	*EPA 8260B*	*10/25/11 23:40*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*1J25011*	*EPA 8260B*	*10/25/11 23:40*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*67-127*	*1J25011*	*EPA 8260B*	*10/25/11 23:40*	*jkg*	

www.encolabs.com

Description:	PSW-3	**Lab Sample ID:**	C111490-06	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 13:30	**Work Order:**	C111490
Project:	Owl's Den LF - Surfacewater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J18010	EPA 7470A	10/18/11 16:31	NLH	

www.encolabs.com

Description: PSW-3 | **Lab Sample ID:** C111490-06 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:30 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J24013	EPA 6010C	10/26/11 11:47	JDH	
Barium [7440-39-3] ^	**111**		ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:47	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J24013	EPA 6010C	10/26/11 11:47	JDH	
Chromium [7440-47-3] ^	**1.29**	J	ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:47	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:47	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J24013	EPA 6010C	10/26/11 11:47	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:47	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: PSW-1 | **Lab Sample ID:** C111490-07 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:45 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2,3-Trichlorobenzene [87-61-6] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2,4-Trimethylbenzene [95-63-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,3,5-Trimethylbenzene [108-67-8] ^	0.067	U	ug/L	1	0.067	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
2-Chlorotoluene [95-49-8] ^	0.071	U	ug/L	1	0.071	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
4-Chlorotoluene [106-43-4] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
4-Isopropyltoluene [99-87-6] ^	0.82	U	ug/L	1	0.82	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Bromobenzene [108-86-1] ^	0.61	U	ug/L	1	0.61	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Isopropylbenzene [98-82-8] ^	0.62	U	ug/L	1	0.62	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.58	U	ug/L	1	0.58	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	

www.encolabs.com

Description: PSW-1 | **Lab Sample ID:** C111490-07 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:45 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
n-Butyl Benzene [104-51-8] ^	0.51	U	ug/L	1	0.51	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
n-Propyl Benzene [103-65-1] ^	0.093	U	ug/L	1	0.093	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
sec-Butylbenzene [135-98-8] ^	0.84	U	ug/L	1	0.84	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
tert-Butylbenzene [98-06-6] ^	0.79	U	ug/L	1	0.79	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	1J25011	EPA 8260B	10/26/11 00:10	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*51-122*	*1J25011*	*EPA 8260B*	*10/26/11 00:10*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*68-117*	*1J25011*	*EPA 8260B*	*10/26/11 00:10*	*jkg*	
Toluene-d8	*56*	*1*	*50.0*	*111 %*	*67-127*	*1J25011*	*EPA 8260B*	*10/26/11 00:10*	*jkg*	

www.encolabs.com

Description:	PSW-1	**Lab Sample ID:**	C111490-07	**Received:**	10/15/11 09:05
Matrix:	Ground Water	**Sampled:**	10/14/11 13:45	**Work Order:**	C111490
Project:	Owl's Den LF - Surfacewater	**Sampled By:**	David Reames		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	1J18010	EPA 7470A	10/18/11 16:34	NLH	

www.encolabs.com

Description: PSW-1 | **Lab Sample ID:** C111490-07 | **Received:** 10/15/11 09:05

Matrix: Ground Water | **Sampled:** 10/14/11 13:45 | **Work Order:** C111490

Project: Owl's Den LF - Surfacewater | **Sampled By:** David Reames

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	1J24013	EPA 6010C	10/26/11 11:49	JDH	
Barium [7440-39-3] ^	**87.9**		ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:49	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1J24013	EPA 6010C	10/26/11 11:49	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	1J24013	EPA 6010C	10/26/11 11:49	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:49	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	1J24013	EPA 6010C	10/26/11 11:49	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	1J24013	EPA 6010C	10/26/11 11:49	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J24025 - EPA 5030B_MS

Blank (1J24025-BLK1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 04:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J24025 - EPA 5030B_MS

Blank (1J24025-BLK1) Continued Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 04:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*57*			*ug/L*	*50.0*		*114*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*68-117*			
Surrogate: Toluene-d8	*56*			*ug/L*	*50.0*		*112*	*67-127*			

LCS (1J24025-BS1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 05:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	19		1.0	ug/L	20.0		94	75-115			

Matrix Spike (1J24025-MS1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 05:39

Source: C112996-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.60 U	105	75-133			
Benzene	20		1.0	ug/L	20.0	0.68 U	99	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	98	83-117			
Toluene	19		1.0	ug/L	20.0	0.85 U	97	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	107	75-115			

Matrix Spike Dup (1J24025-MSD1) Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 06:09

Source: C112996-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.60 U	102	75-133	3	20	
Benzene	19		1.0	ug/L	20.0	0.68 U	97	81-134	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	96	83-117	2	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	94	71-118	4	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J24025 - EPA 5030B_MS

Matrix Spike Dup (1J24025-MSD1) Continued Prepared: 10/24/2011 11:17 Analyzed: 10/25/2011 06:09

Source: C112996-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	106	75-115	1	18	

Batch 1J25011 - EPA 5030B_MS

Blank (1J25011-BLK1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 17:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.51	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.067	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.071	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.63	U	1.0	ug/L							
4-Isopropyltoluene	0.82	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromobenzene	0.61	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J25011 - EPA 5030B_MS

Blank (1J25011-BLK1) Continued Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 17:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Isopropylbenzene	0.62	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.58	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
n-Butyl Benzene	0.51	U	1.0	ug/L							
n-Propyl Benzene	0.093	U	1.0	ug/L							
sec-Butylbenzene	0.84	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
tert-Butylbenzene	0.79	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*115*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*68-117*			
Surrogate: Toluene-d8	*55*			*ug/L*	*50.0*		*111*	*67-127*			

LCS (1J25011-BS1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 18:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		106	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	19		1.0	ug/L	20.0		96	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			

Matrix Spike (1J25011-MS1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 18:43

Source: C113121-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	111	75-133			
Benzene	21		1.0	ug/L	20.0	0.68 U	107	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	105	83-117			
Toluene	21		1.0	ug/L	20.0	0.85 U	103	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	110	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1J25011 - EPA 5030B_MS

Matrix Spike Dup (1J25011-MSD1) Prepared: 10/25/2011 10:45 Analyzed: 10/25/2011 19:13

Source: C113121-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.60 U	99	75-133	11	20	
Benzene	19		1.0	ug/L	20.0	0.68 U	95	81-134	12	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.74 U	95	83-117	10	16	
Toluene	19		1.0	ug/L	20.0	0.85 U	93	71-118	10	17	
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	100	75-115	10	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1J18010 - EPA 245.1

Blank (1J18010-BLK1) Prepared: 10/18/2011 09:59 Analyzed: 10/18/2011 15:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1J18010-BS1) Prepared: 10/18/2011 09:59 Analyzed: 10/18/2011 15:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.90		0.200	ug/L	5.00		98	85-115			

Matrix Spike (1J18010-MS1) Prepared: 10/18/2011 09:59 Analyzed: 10/18/2011 16:01

Source: C112827-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.200	ug/L	5.00	0.170 U	100	85-115			

Matrix Spike Dup (1J18010-MSD1) Prepared: 10/18/2011 09:59 Analyzed: 10/18/2011 16:04

Source: C112827-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.11		0.200	ug/L	5.00	0.170 U	102	85-115	3	15	

Post Spike (1J18010-PS1) Prepared: 10/18/2011 09:59 Analyzed: 10/18/2011 16:07

Source: C112827-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.76		0.200	ug/L	5.00	0.0414	94	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1J24013 - EPA 3005A

Blank (1J24013-BLK1) Prepared: 10/24/2011 09:36 Analyzed: 10/26/2011 11:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1J24013 - EPA 3005A

Blank (1J24013-BLK1) Continued Prepared: 10/24/2011 09:36 Analyzed: 10/26/2011 11:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							

LCS (1J24013-BS1) Prepared: 10/24/2011 09:36 Analyzed: 10/26/2011 11:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	214		10.0	ug/L	200		107	80-120			
Barium	223		10.0	ug/L	200		112	80-120			
Cadmium	21.9		1.00	ug/L	20.0		109	80-120			
Chromium	206		10.0	ug/L	200		103	80-120			
Lead	216		10.0	ug/L	200		108	80-120			
Selenium	218		10.0	ug/L	200		109	80-120			
Silver	210		10.0	ug/L	200		105	80-120			

Matrix Spike (1J24013-MS1) Prepared: 10/24/2011 09:36 Analyzed: 10/26/2011 11:27

Source: C111490-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	214		10.0	ug/L	200	2.80 U	107	75-125			
Barium	542		10.0	ug/L	200	323	109	75-125			
Cadmium	21.7		1.00	ug/L	20.0	0.360 U	108	75-125			
Chromium	209		10.0	ug/L	200	1.77	104	75-125			
Lead	213		10.0	ug/L	200	1.90 U	107	75-125			
Selenium	216		10.0	ug/L	200	2.70 U	108	75-125			
Silver	212		10.0	ug/L	200	1.90 U	106	75-125			

Matrix Spike Dup (1J24013-MSD1) Prepared: 10/24/2011 09:36 Analyzed: 10/26/2011 11:29

Source: C111490-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	213		10.0	ug/L	200	2.80 U	107	75-125	0.4	20	
Barium	529		10.0	ug/L	200	323	103	75-125	2	20	
Cadmium	21.6		1.00	ug/L	20.0	0.360 U	108	75-125	0.5	20	
Chromium	206		10.0	ug/L	200	1.77	102	75-125	2	20	
Lead	213		10.0	ug/L	200	1.90 U	107	75-125	0.04	20	
Selenium	212		10.0	ug/L	200	2.70 U	106	75-125	2	20	
Silver	208		10.0	ug/L	200	1.90 U	104	75-125	2	20	

Post Spike (1J24013-PS1) Prepared: 10/24/2011 09:36 Analyzed: 10/26/2011 11:30

Source: C111490-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.199		0.0100	mg/L	0.200	-0.00133	100	80-120			
Barium	0.514		0.0100	mg/L	0.200	0.323	95	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1J24013 - EPA 3005A

Post Spike (1J24013-PS1) Continued Prepared: 10/24/2011 09:36 Analyzed: 10/26/2011 11:30

Source: C111490-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	0.0204		0.00100	mg/L	0.0200	3.57E-5	102	80-120			
Chromium	0.194		0.0100	mg/L	0.200	0.00177	96	80-120			
Lead	0.201		0.0100	mg/L	0.200	-0.000836	101	80-120			
Selenium	0.204		0.0100	mg/L	0.200	-0.000555	102	80-120			
Silver	0.196		0.0100	mg/L	0.200	0.000999	98	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES **CHAIN-OF-CUSTODY RECORD** **www.encolabs.com**

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Owl's Den LF - Surfacewater & PRIVATE SUPPLY WELLS
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: 55370
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney ~~Withers~~ Murphy
Sampler(s) Name, Affiliation (Print): [illegible] / SMME FM	Billing Contact: Barbara Ellington
Sampler(s) Signature: [illegible]	Site Location / Time Zone: Lincolnton, NC

Requested Analyses: 8260B; Ag,As,Ba,Cd,Cr,Pb,Se; Hg

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C111490

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Ag,As,Ba,Cd,Cr,Pb,Se	Hg	Sample Comments
	SW-3	10/14/11	1035	G	SW	4	X	X	X	
	SW-2	10/14/11	1025	↓	SW	4	X	X	X	
	SW-1	10/14/11	1105	↓	SW	4	X	X	X	
	PSW-16	10/14/11	1300	G	DW	4	X	X	X	
	PSW-6	10/14/11	1315	↓	DW	4	X	X	X	
	PSW-3	10/14/11	1330	↓	DW	4	X	X	X	
	PSW-1	10/14/11	1345	↓	DW	3	X	X	X	SUBMITTED 2 VOAS

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Briana Gregory	9/20/11	[illegible]	10-14-11 1600		
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: ME Stamper	Date/Time: 10/15/11 905

Cooler #'s & Temps on Receipt: ~~C-835 0.6°C~~ C-40 0.5°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) **Preservation:** I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist