Ameren

FILE COPY

Ameren Services

19-69112

April 9, 2019

0218160007-Christian
Taylorville/Ameren CIPS
SF/TECH

Mike Haggitt
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P. O. Box 19276
Springfield, IL 62794-9276

Dear Mr. Haggitt:

As required by Article IX (A) of the Consent Order (Case #93-3332), this is the First Quarter, 2019 report for the Taylorville Manufactured Gas Plant Site. Reports and notifications of events are reported in addition to this summary throughout the quarter.

The following is a list of key events that occurred in the First Quarter, 2019:

First Quarter – 2019 Events

- First quarter 2019 groundwater samples were collected in February 2019 (results attached).
- The pump & treat system shut down as detailed in the September 11, 2017 letter sent to the IEPA.
- Finalizing contract for a replacement operator.
- Seaman Estate Pond Study Report was submitted March 22, 2019.
- On-site meeting with USEPA and IEPA representatives.

Second Quarter – 2019 Plans

- Collect second quarter groundwater samples.
- System startup.

Problems Encountered or Anticipated Problems

The pump and treat system was shut down and placed in standby mode as detailed in the September 11, 2017 letter sent to the IEPA. We have treated 1,273,184,692 gallons of groundwater through the system since startup until the end of August 2017. We plan to restart the pump and treat system during the second quarter. There has not been any migration of contamination off-site.

Sincerely yours,

Donald L. Richardson, P.E, PMP, CHMM, BCEE
Environmental Specialist
Environmental Services

19-69112

0218160007-Christian
Taylorville/Ameren CIPS
SF/TECH

Environmental
Resources
Management

1701 Golf Road
Suite 1-700
Rolling Meadows, IL 60008
(314) 733-4490
(314) 754-8121 (fax)

ERM

April 1, 2019

Mr. Don Richardson
Ameren Services Company
Consulting Environmental Engineer
1901 Chouteau Avenue / MC 602
St. Louis, Missouri 63103

RE: Year 2019 Quarter 1 Groundwater Sampling Results
Former MGP Site - Taylorville, Illinois

Dear Don:

Environmental Resources Management (ERM) appreciates the opportunity to provide groundwater sampling services at the Ameren former MGP site in Taylorville, Illinois. ERM has been performing quarterly groundwater sampling at the Taylorville site for Ameren since the start of remediation activities.

Attached are the results from the first quarter of sampling in 2019 at the Taylorville site. The data is similar to what has been observed in the past, in that impacts exceeding applicable remediation objectives (ROs) are noted primarily at Monitoring Well GW-4R. Concentrations of MGP constituents in Monitoring Wells GW-3 and GW-4R are at the highest levels since about May 2017, although none of the parameters in GW-3 exceed ROs defined by the Illinois Environmental Protection Agency (IEPA) in the Part 742 Tiered Approach to Corrective Action Objectives (TACO). The wells on the downgradient edge of the site did not have exceedances to the ROs, including wells GW-16S, GW-16D, and the proposed compliance well GW-17. An estimated concentration of benzene was identified at GW-16D, at concentrations slightly higher than Quarter 4 of 2018. Estimated concentrations of polynuclear aromatic hydrocarbons (PAHs) were observed at several other locations on and downgradient of the site, all at concentrations below ROs. Analytical services were provided by Teklab, and are attached.

ERM appreciates the opportunity to provide groundwater sampling activities at the Taylorville former MGP site. Should you have any questions, please contact me at (217) 529-0914.

Sincerely,

Brett D. Carney

Brett D. Carney, P.G.
Project Manager
Environmental Resources Management
68 Villa Grove
Springfield, IL 62712

ATTACHMENT

ANALYTICAL RESULTS
FEBRUARY 2019

March 01, 2019

Brett Carney
ERM
68 Villa Grove
Springfield, IL 62712
TEL: (217) 529-0914
FAX:

RE: Ameren Taylorville 1st Qtr 2019 **WorkOrder:** 19021296

Dear Brett Carney:

TEKLAB, INC received 25 samples on 2/21/2019 2:48:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

Report Contents

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019

This reporting package includes the following:

Client: ERM **Work Order:** 19021296

Client Project: Ameren Taylorville 1st Qtr 2019 **Report Date:** 01-Mar-2019

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Client: ERM

Client Project: Ameren Taylorville 1st Qtr 2019

Work Order: 19021296

Report Date: 01-Mar-2019

Cooler Receipt Temp: 4.42 °C

Locations

Collinsville

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	jhriley@teklabinc.com

Collinsville Air

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	EHurley@teklabinc.com

Springfield

Address	3920 Pintail Dr Springfield, IL 62711-9415
Phone	(217) 698-1004
Fax	(217) 698-1005
Email	KKlostermann@teklabinc.com

Chicago

Address	1319 Butterfield Rd. Downers Grove, IL 60515
Phone	(630) 324-6855
Fax	
Email	arenner@teklabinc.com

Kansas City

Address	8421 Nieman Road Lenexa, KS 66214
Phone	(913) 541-1998
Fax	(913) 541-1998
Email	jhriley@teklabinc.com

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2019	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2019	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2019	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		5/28/2019	Collinsville
Kentucky	KDEP	98006		12/31/2019	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA016		12/31/2019	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-001
Client Sample ID: GW-01
Matrix: GROUNDWATER
Collection Date: 02/19/2019 9:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	02/24/2019 12:12	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/24/2019 12:12	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 12:12	150603
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/24/2019 12:12	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/24/2019 12:12	150603
Pyrene	NELAP	0.000200	B	ND	mg/L	1	02/24/2019 12:12	150603
Surr: 2-Fluorobiphenyl	*	10-164		70.1	%REC	1	02/24/2019 12:12	150603
Surr: Nitrobenzene-d5	*	10.3-142		82.4	%REC	1	02/24/2019 12:12	150603
Surr: p-Terphenyl-d14	*	47.1-148		92.9	%REC	1	02/24/2019 12:12	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	02/22/2019 21:57	150639
Bromoform	NELAP	2.00		ND	µg/L	1	02/22/2019 21:57	150639
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/22/2019 21:57	150639
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/22/2019 21:57	150639
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/22/2019 21:57	150639
Naphthalene	NELAP	2.00		ND	µg/L	1	02/22/2019 21:57	150639
o-Xylene	NELAP	1.00		ND	µg/L	1	02/22/2019 21:57	150639
Toluene	NELAP	2.00		ND	µg/L	1	02/22/2019 21:57	150639
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/22/2019 21:57	150639
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/22/2019 21:57	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.8	%REC	1	02/22/2019 21:57	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		98.6	%REC	1	02/22/2019 21:57	150639
Surr: Dibromofluoromethane	*	84.9-113		99.6	%REC	1	02/22/2019 21:57	150639
Surr: Toluene-d8	*	86.7-112		98.4	%REC	1	02/22/2019 21:57	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-002
Client Sample ID: GW-02
Matrix: GROUNDWATER
Collection Date: 02/20/2019 13:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Anthracene	NELAP	0.000100		**0.000243**	mg/L	1	02/24/2019 12:51	150603
Benzo(a)anthracene	NELAP	0.00010	J	**0.000056**	mg/L	1	02/24/2019 12:51	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Benzo(b)fluoranthene	NELAP	0.00010	J	**0.000059**	mg/L	1	02/24/2019 12:51	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.0100		**0.0108**	mg/L	5	02/26/2019 12:43	150603
Chrysene	NELAP	0.00010	J	**0.000060**	mg/L	1	02/24/2019 12:51	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 12:51	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 12:51	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 12:51	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 12:51	150603
Pyrene	NELAP	0.00020	BJ	**0.00013**	mg/L	1	02/24/2019 12:51	150603
Surr: 2-Fluorobiphenyl	*	10-164		**71.4**	%REC	1	02/24/2019 12:51	150603
Surr: Nitrobenzene-d5	*	10.3-142		**84.2**	%REC	1	02/24/2019 12:51	150603
Surr: p-Terphenyl-d14	*	47.1-148		**93.2**	%REC	1	02/24/2019 12:51	150603

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.
Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/22/2019 22:23	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/22/2019 22:23	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/22/2019 22:23	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/22/2019 22:23	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/22/2019 22:23	150639
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 22:23	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/22/2019 22:23	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 22:23	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 22:23	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/22/2019 22:23	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.0**	%REC	1	02/22/2019 22:23	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.2**	%REC	1	02/22/2019 22:23	150639
Surr: Dibromofluoromethane	*	84.9-113		**102.6**	%REC	1	02/22/2019 22:23	150639
Surr: Toluene-d8	*	86.7-112		**98.4**	%REC	1	02/22/2019 22:23	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-003
Client Sample ID: GW-03
Matrix: GROUNDWATER
Collection Date: 02/20/2019 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Acenaphthylene	NELAP	0.000100		0.000180	mg/L	1	02/24/2019 13:29	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	02/24/2019 13:29	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Fluoranthene	NELAP	0.000200		0.000626	mg/L	1	02/24/2019 13:29	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 13:29	150603
Naphthalene	NELAP	0.00100		0.00967	mg/L	5	02/26/2019 13:21	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/24/2019 13:29	150603
Pyrene	NELAP	0.000200	B	0.000953	mg/L	1	02/24/2019 13:29	150603
Surr: 2-Fluorobiphenyl	*	10-164		64.8	%REC	1	02/24/2019 13:29	150603
Surr: Nitrobenzene-d5	*	10.3-142		82.2	%REC	1	02/24/2019 13:29	150603
Surr: p-Terphenyl-d14	*	47.1-148		80.5	%REC	1	02/24/2019 13:29	150603

Contamination present in the MBLK for Pyrene. Insufficient sample to re-extract.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		3.71	µg/L	1	02/22/2019 22:49	150639
Bromoform	NELAP	2.00		ND	µg/L	1	02/22/2019 22:49	150639
Ethylbenzene	NELAP	1.0	J	0.14	µg/L	1	02/22/2019 22:49	150639
m,p-Xylenes	NELAP	1.00		2.65	µg/L	1	02/22/2019 22:49	150639
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/22/2019 22:49	150639
Naphthalene	NELAP	2.00		26.9	µg/L	1	02/22/2019 22:49	150639
o-Xylene	NELAP	1.00		5.56	µg/L	1	02/22/2019 22:49	150639
Toluene	NELAP	2.0	J	0.29	µg/L	1	02/22/2019 22:49	150639
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/22/2019 22:49	150639
Xylenes, Total	NELAP	1.00		8.21	µg/L	1	02/22/2019 22:49	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		97.6	%REC	1	02/22/2019 22:49	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		99.9	%REC	1	02/22/2019 22:49	150639
Surr: Dibromofluoromethane	*	84.9-113		99.0	%REC	1	02/22/2019 22:49	150639
Surr: Toluene-d8	*	86.7-112		96.2	%REC	1	02/22/2019 22:49	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-004
Client Sample ID: GW-04R
Matrix: GROUNDWATER
Collection Date: 02/20/2019 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.0100		**0.0252**	mg/L	100	02/26/2019 13:59	150603
Acenaphthylene	NELAP	0.010	J	**0.0073**	mg/L	100	02/26/2019 13:59	150603
Anthracene	NELAP	0.000100		**0.00106**	mg/L	1	02/24/2019 14:08	150603
Benzo(a)anthracene	NELAP	0.000100		**0.000147**	mg/L	1	02/24/2019 14:08	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 14:08	150603
Benzo(b)fluoranthene	NELAP	0.000100		**0.000164**	mg/L	1	02/24/2019 14:08	150603
Benzo(g,h,i)perylene	NELAP	0.00010	J	**0.000050**	mg/L	1	02/24/2019 14:08	150603
Benzo(k)fluoranthene	NELAP	0.00010	J	**0.000052**	mg/L	1	02/24/2019 14:08	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**ND**	mg/L	1	02/24/2019 14:08	150603
Chrysene	NELAP	0.000100		**0.000419**	mg/L	1	02/24/2019 14:08	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 14:08	150603
Fluoranthene	NELAP	0.000200		**0.00308**	mg/L	1	02/24/2019 14:08	150603
Fluorene	NELAP	0.0100		**0.0837**	mg/L	100	02/26/2019 13:59	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 14:08	150603
Naphthalene	NELAP	2.00		**3.25**	mg/L	10000	02/26/2019 17:47	150603
Phenanthrene	NELAP	0.0400		**0.0734**	mg/L	100	02/26/2019 13:59	150603
Pyrene	NELAP	0.000200	B	**0.00140**	mg/L	1	02/24/2019 14:08	150603
Surr: 2-Fluorobiphenyl	*	10-164	S	**0**	%REC	100	02/26/2019 13:59	150603
Surr: Nitrobenzene-d5	*	10.3-142	S	**0**	%REC	100	02/26/2019 13:59	150603
Surr: p-Terphenyl-d14	*	47.1-148		**86.0**	%REC	1	02/24/2019 14:08	150603

Surrogate recovery is outside control limits due to matrix interference.

Elevated reporting limit due to high levels of target analytes.

Contamination present in the MBLK for Pyrene. Insufficient sample to re-extract.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	12.5		**1300**	µg/L	25	02/25/2019 17:23	150693
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/22/2019 23:15	150639
Ethylbenzene	NELAP	25.0		**223**	µg/L	25	02/25/2019 17:23	150693
m,p-Xylenes	NELAP	1.00		**276**	µg/L	1	02/22/2019 23:15	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/22/2019 23:15	150639
Naphthalene	NELAP	50.0		**4580**	µg/L	25	02/25/2019 17:23	150693
o-Xylene	NELAP	1.00		**185**	µg/L	1	02/22/2019 23:15	150639
Toluene	NELAP	50.0		**728**	µg/L	25	02/25/2019 17:23	150693
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 23:15	150639
Xylenes, Total	NELAP	1.00		**461**	µg/L	1	02/22/2019 23:15	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**97.5**	%REC	1	02/22/2019 23:15	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.7**	%REC	1	02/22/2019 23:15	150639
Surr: Dibromofluoromethane	*	84.9-113		**100.8**	%REC	1	02/22/2019 23:15	150639
Surr: Toluene-d8	*	86.7-112		**99.8**	%REC	1	02/22/2019 23:15	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-005
Client Sample ID: GW-05
Matrix: GROUNDWATER
Collection Date: 02/20/2019 14:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 14:46	150603
Acenaphthylene	NELAP	0.00010	J	**0.000051**	mg/L	1	02/24/2019 14:46	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 14:46	150603
Benzo(a)anthracene	NELAP	0.000100		**0.000197**	mg/L	1	02/24/2019 14:46	150603
Benzo(a)pyrene	NELAP	0.00010	J	**0.000097**	mg/L	1	02/24/2019 14:46	150603
Benzo(b)fluoranthene	NELAP	0.000100		**0.000206**	mg/L	1	02/24/2019 14:46	150603
Benzo(g,h,i)perylene	NELAP	0.00010	J	**0.000084**	mg/L	1	02/24/2019 14:46	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 14:46	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00400		**0.00490**	mg/L	2	02/26/2019 14:37	150603
Chrysene	NELAP	0.000100		**0.000268**	mg/L	1	02/24/2019 14:46	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 14:46	150603
Fluoranthene	NELAP	0.000200		**0.000204**	mg/L	1	02/24/2019 14:46	150603
Fluorene	NELAP	0.000100		**0.000141**	mg/L	1	02/24/2019 14:46	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.00010	J	**0.000088**	mg/L	1	02/24/2019 14:46	150603
Naphthalene	NELAP	0.000400		**0.00583**	mg/L	2	02/26/2019 14:37	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 14:46	150603
Pyrene	NELAP	0.00020	BJ	**0.00017**	mg/L	1	02/24/2019 14:46	150603
Surr: 2-Fluorobiphenyl	*	10-164		**73.6**	%REC	1	02/24/2019 14:46	150603
Surr: Nitrobenzene-d5	*	10.3-142		**87.3**	%REC	1	02/24/2019 14:46	150603
Surr: p-Terphenyl-d14	*	47.1-148		**85.8**	%REC	1	02/24/2019 14:46	150603

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.
Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50	J	**0.41**	µg/L	1	02/22/2019 23:41	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/22/2019 23:41	150639
Ethylbenzene	NELAP	1.0	J	**0.31**	µg/L	1	02/22/2019 23:41	150639
m,p-Xylenes	NELAP	1.0	J	**0.35**	µg/L	1	02/22/2019 23:41	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/22/2019 23:41	150639
Naphthalene	NELAP	2.00		**35.9**	µg/L	1	02/22/2019 23:41	150639
o-Xylene	NELAP	1.0	J	**0.23**	µg/L	1	02/22/2019 23:41	150639
Toluene	NELAP	2.0	J	**0.40**	µg/L	1	02/22/2019 23:41	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 23:41	150639
Xylenes, Total	NELAP	1.0	J	**0.58**	µg/L	1	02/22/2019 23:41	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**97.6**	%REC	1	02/22/2019 23:41	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.4**	%REC	1	02/22/2019 23:41	150639
Surr: Dibromofluoromethane	*	84.9-113		**99.3**	%REC	1	02/22/2019 23:41	150639
Surr: Toluene-d8	*	86.7-112		**97.3**	%REC	1	02/22/2019 23:41	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-006
Client Sample ID: GW-07
Matrix: GROUNDWATER
Collection Date: 02/18/2019 16:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000111**	mg/L	1	02/24/2019 15:25	150603
Acenaphthylene	NELAP	0.000100		**0.000266**	mg/L	1	02/24/2019 15:25	150603
Anthracene	NELAP	0.000100		**0.00218**	mg/L	1	02/24/2019 15:25	150603
Benzo(a)anthracene	NELAP	0.000100		**0.000200**	mg/L	1	02/24/2019 15:25	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 15:25	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 15:25	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 15:25	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 15:25	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00400		**0.00667**	mg/L	2	02/26/2019 15:15	150603
Chrysene	NELAP	0.000100		**0.000147**	mg/L	1	02/24/2019 15:25	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 15:25	150603
Fluoranthene	NELAP	0.000200		**0.00220**	mg/L	1	02/24/2019 15:25	150603
Fluorene	NELAP	0.000100		**0.000397**	mg/L	1	02/24/2019 15:25	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 15:25	150603
Naphthalene	NELAP	0.00020	J	**0.00020**	mg/L	1	02/24/2019 15:25	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 15:25	150603
Pyrene	NELAP	0.000200	B	**0.00297**	mg/L	1	02/24/2019 15:25	150603
Surr: 2-Fluorobiphenyl	*	10-164		**66.3**	%REC	1	02/24/2019 15:25	150603
Surr: Nitrobenzene-d5	*	10.3-142		**79.8**	%REC	1	02/24/2019 15:25	150603
Surr: p-Terphenyl-d14	*	47.1-148		**82.1**	%REC	1	02/24/2019 15:25	150603

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.

Contamination present in MBLK for Pyrene. Contamination was less than 5% of the sample result. Results are reportable per SW-846 8000B section 8.2.6.5.3.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50	J	**0.12**	µg/L	1	02/23/2019 0:07	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:07	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:07	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:07	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:07	150639
Naphthalene	NELAP	2.00		**6.88**	µg/L	1	02/23/2019 0:07	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:07	150639
Toluene	NELAP	2.0	J	**0.12**	µg/L	1	02/23/2019 0:07	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:07	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:07	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**106.5**	%REC	1	02/23/2019 0:07	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.9**	%REC	1	02/23/2019 0:07	150639
Surr: Dibromofluoromethane	*	84.9-113		**102.9**	%REC	1	02/23/2019 0:07	150639
Surr: Toluene-d8	*	86.7-112		**97.1**	%REC	1	02/23/2019 0:07	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-007
Client Sample ID: GW-14
Matrix: GROUNDWATER
Collection Date: 02/19/2019 8:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**ND**	mg/L	1	02/24/2019 16:03	150603
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 16:03	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:03	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 16:03	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 16:03	150603
Pyrene	NELAP	0.000200	B	**ND**	mg/L	1	02/24/2019 16:03	150603
Surr: 2-Fluorobiphenyl	*	10-164		**73.6**	%REC	1	02/24/2019 16:03	150603
Surr: Nitrobenzene-d5	*	10.3-142		**79.2**	%REC	1	02/24/2019 16:03	150603
Surr: p-Terphenyl-d14	*	47.1-148		**105.6**	%REC	1	02/24/2019 16:03	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 0:33	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:33	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:33	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:33	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:33	150639
Naphthalene	NELAP	2.00		**2.89**	µg/L	1	02/23/2019 0:33	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:33	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:33	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:33	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:33	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**97.8**	%REC	1	02/23/2019 0:33	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**97.4**	%REC	1	02/23/2019 0:33	150639
Surr: Dibromofluoromethane	*	84.9-113		**98.2**	%REC	1	02/23/2019 0:33	150639
Surr: Toluene-d8	*	86.7-112		**97.8**	%REC	1	02/23/2019 0:33	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-008
Client Sample ID: GW-15
Matrix: GROUNDWATER
Collection Date: 02/20/2019 11:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.00010	J	**0.000055**	mg/L	1	02/24/2019 16:42	150603
Acenaphthylene	NELAP	0.00010	J	**0.000069**	mg/L	1	02/24/2019 16:42	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Benzo(a)anthracene	NELAP	0.00010	J	**0.000052**	mg/L	1	02/24/2019 16:42	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**0.00327**	mg/L	1	02/24/2019 16:42	150603
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 16:42	150603
Fluorene	NELAP	0.00010	J	**0.00010**	mg/L	1	02/24/2019 16:42	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 16:42	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 16:42	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 16:42	150603
Pyrene	NELAP	0.00020	BJ	**0.00011**	mg/L	1	02/24/2019 16:42	150603
Surr: 2-Fluorobiphenyl	*	10-164		**62.4**	%REC	1	02/24/2019 16:42	150603
Surr: Nitrobenzene-d5	*	10.3-142		**73.5**	%REC	1	02/24/2019 16:42	150603
Surr: p-Terphenyl-d14	*	47.1-148		**93.6**	%REC	1	02/24/2019 16:42	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.
Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 0:59	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:59	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:59	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:59	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:59	150639
Naphthalene	NELAP	2.0	J	**1.7**	µg/L	1	02/23/2019 0:59	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:59	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:59	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 0:59	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 0:59	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**97.7**	%REC	1	02/23/2019 0:59	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.2**	%REC	1	02/23/2019 0:59	150639
Surr: Dibromofluoromethane	*	84.9-113		**102.4**	%REC	1	02/23/2019 0:59	150639
Surr: Toluene-d8	*	86.7-112		**97.7**	%REC	1	02/23/2019 0:59	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-009
Client Sample ID: GW-16S
Matrix: GROUNDWATER
Collection Date: 02/18/2019 14:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00400		**0.00774**	mg/L	2	02/26/2019 15:53	150603
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 17:20	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 17:20	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 17:20	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 17:20	150603
Pyrene	NELAP	0.000200	B	**ND**	mg/L	1	02/24/2019 17:20	150603
Surr: 2-Fluorobiphenyl	*	10-164		**75.2**	%REC	1	02/24/2019 17:20	150603
Surr: Nitrobenzene-d5	*	10.3-142		**85.7**	%REC	1	02/24/2019 17:20	150603
Surr: p-Terphenyl-d14	*	47.1-148		**94.6**	%REC	1	02/24/2019 17:20	150603

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.
Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 1:26	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 1:26	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 1:26	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 1:26	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 1:26	150639
Naphthalene	NELAP	2.0	J	**1.1**	µg/L	1	02/23/2019 1:26	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 1:26	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 1:26	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 1:26	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 1:26	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**97.6**	%REC	1	02/23/2019 1:26	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.7**	%REC	1	02/23/2019 1:26	150639
Surr: Dibromofluoromethane	*	84.9-113		**101.6**	%REC	1	02/23/2019 1:26	150639
Surr: Toluene-d8	*	86.7-112		**98.0**	%REC	1	02/23/2019 1:26	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-010
Client Sample ID: GW-16D
Matrix: GROUNDWATER
Collection Date: 02/18/2019 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00400		0.00573	mg/L	2	02/26/2019 16:31	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/24/2019 17:58	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 17:58	150603
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/24/2019 17:58	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/24/2019 17:58	150603
Pyrene	NELAP	0.000200	B	ND	mg/L	1	02/24/2019 17:58	150603
Surr: 2-Fluorobiphenyl	*	10-164		73.1	%REC	1	02/24/2019 17:58	150603
Surr: Nitrobenzene-d5	*	10.3-142		91.4	%REC	1	02/24/2019 17:58	150603
Surr: p-Terphenyl-d14	*	47.1-148		74.5	%REC	1	02/24/2019 17:58	150603

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.
Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		0.71	µg/L	1	02/23/2019 1:51	150639
Bromoform	NELAP	2.00		ND	µg/L	1	02/23/2019 1:51	150639
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/23/2019 1:51	150639
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/23/2019 1:51	150639
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/23/2019 1:51	150639
Naphthalene	NELAP	2.0	J	0.81	µg/L	1	02/23/2019 1:51	150639
o-Xylene	NELAP	1.00		ND	µg/L	1	02/23/2019 1:51	150639
Toluene	NELAP	2.00		ND	µg/L	1	02/23/2019 1:51	150639
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/23/2019 1:51	150639
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/23/2019 1:51	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.0	%REC	1	02/23/2019 1:51	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		99.7	%REC	1	02/23/2019 1:51	150639
Surr: Dibromofluoromethane	*	84.9-113		100.4	%REC	1	02/23/2019 1:51	150639
Surr: Toluene-d8	*	86.7-112		99.4	%REC	1	02/23/2019 1:51	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-011
Client Sample ID: GW-17
Matrix: GROUNDWATER
Collection Date: 02/18/2019 15:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	02/24/2019 18:36	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/24/2019 18:36	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 18:36	150603
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/24/2019 18:36	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/24/2019 18:36	150603
Pyrene	NELAP	0.000200	B	ND	mg/L	1	02/24/2019 18:36	150603
Surr: 2-Fluorobiphenyl	*	10-164		66.6	%REC	1	02/24/2019 18:36	150603
Surr: Nitrobenzene-d5	*	10.3-142		81.8	%REC	1	02/24/2019 18:36	150603
Surr: p-Terphenyl-d14	*	47.1-148		87.8	%REC	1	02/24/2019 18:36	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	02/23/2019 2:18	150639
Bromoform	NELAP	2.00		ND	µg/L	1	02/23/2019 2:18	150639
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/23/2019 2:18	150639
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/23/2019 2:18	150639
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/23/2019 2:18	150639
Naphthalene	NELAP	2.0	J	0.61	µg/L	1	02/23/2019 2:18	150639
o-Xylene	NELAP	1.00		ND	µg/L	1	02/23/2019 2:18	150639
Toluene	NELAP	2.00		ND	µg/L	1	02/23/2019 2:18	150639
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/23/2019 2:18	150639
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/23/2019 2:18	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		96.8	%REC	1	02/23/2019 2:18	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		101.1	%REC	1	02/23/2019 2:18	150639
Surr: Dibromofluoromethane	*	84.9-113		101.0	%REC	1	02/23/2019 2:18	150639
Surr: Toluene-d8	*	86.7-112		99.4	%REC	1	02/23/2019 2:18	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-012
Client Sample ID: GW-18S
Matrix: GROUNDWATER
Collection Date: 02/19/2019 11:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**0.00433**	mg/L	1	02/24/2019 19:13	150603
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 19:13	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 19:13	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 19:13	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 19:13	150603
Pyrene	NELAP	0.000200	B	**ND**	mg/L	1	02/24/2019 19:13	150603
Surr: 2-Fluorobiphenyl	*	10-164		**59.9**	%REC	1	02/24/2019 19:13	150603
Surr: Nitrobenzene-d5	*	10.3-142		**75.0**	%REC	1	02/24/2019 19:13	150603
Surr: p-Terphenyl-d14	*	47.1-148		**86.3**	%REC	1	02/24/2019 19:13	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.
Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 2:44	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 2:44	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 2:44	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 2:44	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 2:44	150639
Naphthalene	NELAP	2.0	J	**0.52**	µg/L	1	02/23/2019 2:44	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 2:44	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 2:44	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 2:44	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 2:44	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.7**	%REC	1	02/23/2019 2:44	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.4**	%REC	1	02/23/2019 2:44	150639
Surr: Dibromofluoromethane	*	84.9-113		**102.7**	%REC	1	02/23/2019 2:44	150639
Surr: Toluene-d8	*	86.7-112		**95.9**	%REC	1	02/23/2019 2:44	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-013
Client Sample ID: GW-18D
Matrix: GROUNDWATER
Collection Date: 02/19/2019 10:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	02/24/2019 19:51	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/24/2019 19:51	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/24/2019 19:51	150603
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/24/2019 19:51	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/24/2019 19:51	150603
Pyrene	NELAP	0.000200	B	ND	mg/L	1	02/24/2019 19:51	150603
Surr: 2-Fluorobiphenyl	*	10-164		65.2	%REC	1	02/24/2019 19:51	150603
Surr: Nitrobenzene-d5	*	10.3-142		83.1	%REC	1	02/24/2019 19:51	150603
Surr: p-Terphenyl-d14	*	47.1-148		81.9	%REC	1	02/24/2019 19:51	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	02/26/2019 18:54	150727
Bromoform	NELAP	2.00		ND	µg/L	1	02/26/2019 18:54	150727
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/26/2019 18:54	150727
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/26/2019 18:54	150727
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/26/2019 18:54	150727
Naphthalene	NELAP	2.00		ND	µg/L	1	02/26/2019 18:54	150727
o-Xylene	NELAP	1.00		ND	µg/L	1	02/26/2019 18:54	150727
Toluene	NELAP	2.00		ND	µg/L	1	02/26/2019 18:54	150727
trans-1,2-Dichloroethene	NELAP	2.0	J	0.40	µg/L	1	02/26/2019 18:54	150727
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/26/2019 18:54	150727
Surr: 1,2-Dichloroethane-d4	*	79.6-118		102.8	%REC	1	02/26/2019 18:54	150727
Surr: 4-Bromofluorobenzene	*	83.9-115		101.6	%REC	1	02/26/2019 18:54	150727
Surr: Dibromofluoromethane	*	84.9-113		102.5	%REC	1	02/26/2019 18:54	150727
Surr: Toluene-d8	*	86.7-112		97.6	%REC	1	02/26/2019 18:54	150727

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-014
Client Sample ID: GW-19S
Matrix: GROUNDWATER
Collection Date: 02/19/2019 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.0100		**0.0146**	mg/L	5	02/26/2019 17:09	150603
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 20:29	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2019 20:29	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2019 20:29	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2019 20:29	150603
Pyrene	NELAP	0.000200	B	**ND**	mg/L	1	02/24/2019 20:29	150603
Surr: 2-Fluorobiphenyl	*	10-164		**74.1**	%REC	1	02/24/2019 20:29	150603
Surr: Nitrobenzene-d5	*	10.3-142		**89.4**	%REC	1	02/24/2019 20:29	150603
Surr: p-Terphenyl-d14	*	47.1-148		**76.1**	%REC	1	02/24/2019 20:29	150603

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.
Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 3:10	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:10	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:10	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:10	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:10	150639
Naphthalene	NELAP	2.0	J	**0.41**	µg/L	1	02/23/2019 3:10	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:10	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:10	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:10	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:10	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**98.1**	%REC	1	02/23/2019 3:10	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.8**	%REC	1	02/23/2019 3:10	150639
Surr: Dibromofluoromethane	*	84.9-113		**101.0**	%REC	1	02/23/2019 3:10	150639
Surr: Toluene-d8	*	86.7-112		**99.8**	%REC	1	02/23/2019 3:10	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-015
Client Sample ID: GW-19D
Matrix: GROUNDWATER
Collection Date: 02/19/2019 12:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.0020	J	**0.0019**	mg/L	1	02/25/2019 0:53	150603
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 0:53	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 0:53	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 0:53	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/25/2019 0:53	150603
Pyrene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 0:53	150603
Surr: 2-Fluorobiphenyl	*	10-164		**59.9**	%REC	1	02/25/2019 0:53	150603
Surr: Nitrobenzene-d5	*	10.3-142		**72.6**	%REC	1	02/25/2019 0:53	150603
Surr: p-Terphenyl-d14	*	47.1-148		**88.6**	%REC	1	02/25/2019 0:53	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 3:36	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:36	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:36	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:36	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:36	150639
Naphthalene	NELAP	2.0	J	**0.37**	µg/L	1	02/23/2019 3:36	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:36	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:36	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 3:36	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 3:36	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**98.3**	%REC	1	02/23/2019 3:36	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.8**	%REC	1	02/23/2019 3:36	150639
Surr: Dibromofluoromethane	*	84.9-113		**100.6**	%REC	1	02/23/2019 3:36	150639
Surr: Toluene-d8	*	86.7-112		**99.1**	%REC	1	02/23/2019 3:36	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-016
Client Sample ID: GW-20
Matrix: GROUNDWATER
Collection Date: 02/19/2019 15:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Benzo(a)pyrene	NELAP	0.00010	J	0.000052	mg/L	1	02/25/2019 1:31	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Benzo(g,h,i)perylene	NELAP	0.00010	J	0.000076	mg/L	1	02/25/2019 1:31	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	02/25/2019 1:31	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/25/2019 1:31	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/25/2019 1:31	150603
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/25/2019 1:31	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/25/2019 1:31	150603
Pyrene	NELAP	0.000200		ND	mg/L	1	02/25/2019 1:31	150603
Surr: 2-Fluorobiphenyl	*	10-164		72.4	%REC	1	02/25/2019 1:31	150603
Surr: Nitrobenzene-d5	*	10.3-142		89.6	%REC	1	02/25/2019 1:31	150603
Surr: p-Terphenyl-d14	*	47.1-148		98.9	%REC	1	02/25/2019 1:31	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	02/23/2019 4:03	150639
Bromoform	NELAP	2.00		ND	µg/L	1	02/23/2019 4:03	150639
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/23/2019 4:03	150639
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/23/2019 4:03	150639
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/23/2019 4:03	150639
Naphthalene	NELAP	2.00		ND	µg/L	1	02/23/2019 4:03	150639
o-Xylene	NELAP	1.00		ND	µg/L	1	02/23/2019 4:03	150639
Toluene	NELAP	2.00		ND	µg/L	1	02/23/2019 4:03	150639
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/23/2019 4:03	150639
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/23/2019 4:03	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.8	%REC	1	02/23/2019 4:03	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		98.5	%REC	1	02/23/2019 4:03	150639
Surr: Dibromofluoromethane	*	84.9-113		102.0	%REC	1	02/23/2019 4:03	150639
Surr: Toluene-d8	*	86.7-112		97.1	%REC	1	02/23/2019 4:03	150639

Client: ERM **Work Order:** 19021296

Client Project: Ameren Taylorville 1st Qtr 2019 **Report Date:** 01-Mar-2019

Lab ID: 19021296-017 **Client Sample ID:** GW-21

Matrix: GROUNDWATER **Collection Date:** 02/19/2019 14:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Benzo(a)anthracene	NELAP	0.00010	J	**0.000054**	mg/L	1	02/25/2019 2:08	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Benzo(b)fluoranthene	NELAP	0.00010	J	**0.000060**	mg/L	1	02/25/2019 2:08	150603
Benzo(g,h,i)perylene	NELAP	0.00010	J	**0.000054**	mg/L	1	02/25/2019 2:08	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**ND**	mg/L	1	02/25/2019 2:08	150603
Chrysene	NELAP	0.00010	J	**0.000043**	mg/L	1	02/25/2019 2:08	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 2:08	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 2:08	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 2:08	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/25/2019 2:08	150603
Pyrene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 2:08	150603
Surr: 2-Fluorobiphenyl	*	10-164		**74.9**	%REC	1	02/25/2019 2:08	150603
Surr: Nitrobenzene-d5	*	10.3-142		**88.0**	%REC	1	02/25/2019 2:08	150603
Surr: p-Terphenyl-d14	*	47.1-148		**72.9**	%REC	1	02/25/2019 2:08	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 4:29	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 4:29	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 4:29	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 4:29	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 4:29	150639
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 4:29	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 4:29	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 4:29	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 4:29	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 4:29	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.1**	%REC	1	02/23/2019 4:29	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.9**	%REC	1	02/23/2019 4:29	150639
Surr: Dibromofluoromethane	*	84.9-113		**101.5**	%REC	1	02/23/2019 4:29	150639
Surr: Toluene-d8	*	86.7-112		**96.4**	%REC	1	02/23/2019 4:29	150639

Client: ERM | **Work Order:** 19021296

Client Project: Ameren Taylorville 1st Qtr 2019 | **Report Date:** 01-Mar-2019

Lab ID: 19021296-018 | **Client Sample ID:** GW-22S

Matrix: GROUNDWATER | **Collection Date:** 02/20/2019 10:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	02/25/2019 2:46	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/25/2019 2:46	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/25/2019 2:46	150603
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/25/2019 2:46	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/25/2019 2:46	150603
Pyrene	NELAP	0.000200		ND	mg/L	1	02/25/2019 2:46	150603
Surr: 2-Fluorobiphenyl	*	10-164		79.9	%REC	1	02/25/2019 2:46	150603
Surr: Nitrobenzene-d5	*	10.3-142		89.3	%REC	1	02/25/2019 2:46	150603
Surr: p-Terphenyl-d14	*	47.1-148		98.0	%REC	1	02/25/2019 2:46	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.

Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	02/23/2019 4:55	150639
Bromoform	NELAP	2.00		ND	µg/L	1	02/23/2019 4:55	150639
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/23/2019 4:55	150639
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/23/2019 4:55	150639
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/23/2019 4:55	150639
Naphthalene	NELAP	2.00		ND	µg/L	1	02/23/2019 4:55	150639
o-Xylene	NELAP	1.00		ND	µg/L	1	02/23/2019 4:55	150639
Toluene	NELAP	2.00		ND	µg/L	1	02/23/2019 4:55	150639
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/23/2019 4:55	150639
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/23/2019 4:55	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.6	%REC	1	02/23/2019 4:55	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		99.9	%REC	1	02/23/2019 4:55	150639
Surr: Dibromofluoromethane	*	84.9-113		99.8	%REC	1	02/23/2019 4:55	150639
Surr: Toluene-d8	*	86.7-112		97.2	%REC	1	02/23/2019 4:55	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-019
Client Sample ID: GW-22D
Matrix: GROUNDWATER
Collection Date: 02/20/2019 9:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00243	mg/L	1	02/25/2019 4:40	150603
Chrysene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/25/2019 4:40	150603
Fluorene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/25/2019 4:40	150603
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/25/2019 4:40	150603
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/25/2019 4:40	150603
Pyrene	NELAP	0.000200		ND	mg/L	1	02/25/2019 4:40	150603
Surr: 2-Fluorobiphenyl	*	10-164		71.7	%REC	1	02/25/2019 4:40	150603
Surr: Nitrobenzene-d5	*	10.3-142		79.4	%REC	1	02/25/2019 4:40	150603
Surr: p-Terphenyl-d14	*	47.1-148		100.3	%REC	1	02/25/2019 4:40	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.
Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	02/23/2019 5:21	150639
Bromoform	NELAP	2.00		ND	µg/L	1	02/23/2019 5:21	150639
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/23/2019 5:21	150639
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/23/2019 5:21	150639
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/23/2019 5:21	150639
Naphthalene	NELAP	2.00		ND	µg/L	1	02/23/2019 5:21	150639
o-Xylene	NELAP	1.00		ND	µg/L	1	02/23/2019 5:21	150639
Toluene	NELAP	2.00		ND	µg/L	1	02/23/2019 5:21	150639
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/23/2019 5:21	150639
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/23/2019 5:21	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.6	%REC	1	02/23/2019 5:21	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		102.0	%REC	1	02/23/2019 5:21	150639
Surr: Dibromofluoromethane	*	84.9-113		98.5	%REC	1	02/23/2019 5:21	150639
Surr: Toluene-d8	*	86.7-112		97.8	%REC	1	02/23/2019 5:21	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-020
Client Sample ID: GW-19S DUP
Matrix: GROUNDWATER
Collection Date: 02/19/2019 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Benzo(g,h,i)perylene	NELAP	0.00010	J	**0.000051**	mg/L	1	02/25/2019 5:17	150603
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**0.00315**	mg/L	1	02/25/2019 5:17	150603
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 5:17	150603
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/25/2019 5:17	150603
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 5:17	150603
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/25/2019 5:17	150603
Pyrene	NELAP	0.000200		**ND**	mg/L	1	02/25/2019 5:17	150603
Surr: 2-Fluorobiphenyl	*	10-164		**85.3**	%REC	1	02/25/2019 5:17	150603
Surr: Nitrobenzene-d5	*	10.3-142		**88.8**	%REC	1	02/25/2019 5:17	150603
Surr: p-Terphenyl-d14	*	47.1-148		**85.2**	%REC	1	02/25/2019 5:17	150603

Contamination present in the MBLK for Pyrene. Sample results below the reporting limit are reportable per the TNI Standard.
Bis(2-ethylhexyl)phthalate recovered outside the LCS upper control limits. Insufficient sample to re-extract.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/23/2019 5:48	150639
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/23/2019 5:48	150639
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 5:48	150639
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/23/2019 5:48	150639
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/23/2019 5:48	150639
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 5:48	150639
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/23/2019 5:48	150639
Toluene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 5:48	150639
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/23/2019 5:48	150639
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/23/2019 5:48	150639
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**98.6**	%REC	1	02/23/2019 5:48	150639
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.9**	%REC	1	02/23/2019 5:48	150639
Surr: Dibromofluoromethane	*	84.9-113		**98.8**	%REC	1	02/23/2019 5:48	150639
Surr: Toluene-d8	*	86.7-112		**97.6**	%REC	1	02/23/2019 5:48	150639

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-021
Client Sample ID: GW-22D DUP
Matrix: GROUNDWATER
Collection Date: 02/20/2019 9:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00215	mg/L	1	02/25/2019 0:15	150625
Chrysene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Fluoranthene	NELAP	0.000200		ND	mg/L	1	02/25/2019 0:15	150625
Fluorene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	02/25/2019 0:15	150625
Naphthalene	NELAP	0.000200		ND	mg/L	1	02/25/2019 0:15	150625
Phenanthrene	NELAP	0.000400		ND	mg/L	1	02/25/2019 0:15	150625
Pyrene	NELAP	0.000200		ND	mg/L	1	02/25/2019 0:15	150625
Surr: 2-Fluorobiphenyl	*	10-164		72.1	%REC	1	02/25/2019 0:15	150625
Surr: Nitrobenzene-d5	*	10.3-142		87.1	%REC	1	02/25/2019 0:15	150625
Surr: p-Terphenyl-d14	*	47.1-148		91.4	%REC	1	02/25/2019 0:15	150625
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	02/22/2019 20:20	150649
Bromoform	NELAP	2.00		ND	µg/L	1	02/22/2019 20:20	150649
Ethylbenzene	NELAP	1.00		ND	µg/L	1	02/22/2019 20:20	150649
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	02/22/2019 20:20	150649
Methylene chloride	NELAP	2.00		ND	µg/L	1	02/22/2019 20:20	150649
Naphthalene	NELAP	2.00		ND	µg/L	1	02/22/2019 20:20	150649
o-Xylene	NELAP	1.00		ND	µg/L	1	02/22/2019 20:20	150649
Toluene	NELAP	2.00		ND	µg/L	1	02/22/2019 20:20	150649
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	02/22/2019 20:20	150649
Xylenes, Total	NELAP	1.00		ND	µg/L	1	02/22/2019 20:20	150649
Surr: 1,2-Dichloroethane-d4	*	79.6-118		106.7	%REC	1	02/22/2019 20:20	150649
Surr: 4-Bromofluorobenzene	*	83.9-115		101.6	%REC	1	02/22/2019 20:20	150649
Surr: Dibromofluoromethane	*	84.9-113		101.4	%REC	1	02/22/2019 20:20	150649
Surr: Toluene-d8	*	86.7-112		100.5	%REC	1	02/22/2019 20:20	150649

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019
Lab ID: 19021296-022
Client Sample ID: Trip Blank 3
Matrix: TRIP BLANK
Collection Date: 02/21/2019 14:48

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/22/2019 20:48	150649
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/22/2019 20:48	150649
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/22/2019 20:48	150649
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/22/2019 20:48	150649
Methylene chloride	NELAP	2.00		**ND**	µg/L	1	02/22/2019 20:48	150649
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 20:48	150649
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/22/2019 20:48	150649
Toluene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 20:48	150649
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/22/2019 20:48	150649
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/22/2019 20:48	150649
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**106.0**	%REC	1	02/22/2019 20:48	150649
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.1**	%REC	1	02/22/2019 20:48	150649
Surr: Dibromofluoromethane	*	84.9-113		**101.8**	%REC	1	02/22/2019 20:48	150649
Surr: Toluene-d8	*	86.7-112		**96.6**	%REC	1	02/22/2019 20:48	150649

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
19021296-001	GW-01	Groundwater	2	02/19/2019 9:00
19021296-002	GW-02	Groundwater	2	02/20/2019 13:00
19021296-003	GW-03	Groundwater	2	02/20/2019 12:35
19021296-004	GW-04R	Groundwater	2	02/20/2019 11:45
19021296-005	GW-05	Groundwater	2	02/20/2019 14:45
19021296-006	GW-07	Groundwater	2	02/18/2019 16:30
19021296-007	GW-14	Groundwater	2	02/19/2019 8:30
19021296-008	GW-15	Groundwater	2	02/20/2019 11:10
19021296-009	GW-16S	Groundwater	2	02/18/2019 14:20
19021296-010	GW-16D	Groundwater	2	02/18/2019 13:45
19021296-011	GW-17	Groundwater	2	02/18/2019 15:00
19021296-012	GW-18S	Groundwater	2	02/19/2019 11:15
19021296-013	GW-18D	Groundwater	2	02/19/2019 10:45
19021296-014	GW-19S	Groundwater	2	02/19/2019 13:30
19021296-015	GW-19D	Groundwater	2	02/19/2019 12:50
19021296-016	GW-20	Groundwater	2	02/19/2019 15:24
19021296-017	GW-21	Groundwater	2	02/19/2019 14:58
19021296-018	GW-22S	Groundwater	2	02/20/2019 10:10
19021296-019	GW-22D	Groundwater	2	02/20/2019 9:45
19021296-020	GW-19S DUP	Groundwater	2	02/19/2019 13:30
19021296-021	GW-22D DUP	Groundwater	2	02/20/2019 9:45
19021296-022	Trip Blank 3	Trip Blank	1	02/21/2019 14:48
19021296-023	Trip Blank 1	Trip Blank	1	02/21/2019 14:48
19021296-024	Trip Blank 2	Trip Blank	1	02/21/2019 14:48
19021296-025	Trip Blank 4	Trip Blank	1	02/21/2019 14:48

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19021296-001A	GW-01	02/19/2019 9:00	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/24/2019 12:12
19021296-001B	GW-01	02/19/2019 9:00	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/22/2019 21:57
19021296-002A	GW-02	02/20/2019 13:00	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/24/2019 12:51
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/26/2019 12:43
19021296-002B	GW-02	02/20/2019 13:00	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/22/2019 22:23
19021296-003A	GW-03	02/20/2019 12:35	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/24/2019 13:29
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/26/2019 13:21
19021296-003B	GW-03	02/20/2019 12:35	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/22/2019 22:49
19021296-004A	GW-04R	02/20/2019 11:45	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/24/2019 14:08
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/26/2019 13:59
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/26/2019 17:47
19021296-004B	GW-04R	02/20/2019 11:45	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/22/2019 23:15
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/25/2019 17:23
19021296-005A	GW-05	02/20/2019 14:45	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/24/2019 14:46
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/26/2019 14:37
19021296-005B	GW-05	02/20/2019 14:45	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/22/2019 23:41
19021296-006A	GW-07	02/18/2019 16:30	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/24/2019 15:25
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/26/2019 15:15
19021296-006B	GW-07	02/18/2019 16:30	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 0:07
19021296-007A	GW-14	02/19/2019 8:30	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 14:27	02/24/2019 16:03
19021296-007B	GW-14	02/19/2019 8:30	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 0:33

Client: ERM
Work Order: 19021296
Client Project: Ameren Taylorville 1st Qtr 2019
Report Date: 01-Mar-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19021296-008A	GW-15	02/20/2019 11:10	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/24/2019 16:42
19021296-008B	GW-15	02/20/2019 11:10	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 0:59
19021296-009A	GW-16S	02/18/2019 14:20	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/24/2019 17:20
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/26/2019 15:53
19021296-009B	GW-16S	02/18/2019 14:20	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 1:26
19021296-010A	GW-16D	02/18/2019 13:45	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/24/2019 17:58
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/26/2019 16:31
19021296-010B	GW-16D	02/18/2019 13:45	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 1:51
19021296-011A	GW-17	02/18/2019 15:00	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/24/2019 18:36
19021296-011B	GW-17	02/18/2019 15:00	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 2:18
19021296-012A	GW-18S	02/19/2019 11:15	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/24/2019 19:13
19021296-012B	GW-18S	02/19/2019 11:15	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 2:44
19021296-013A	GW-18D	02/19/2019 10:45	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 17:08	02/24/2019 19:51
19021296-013B	GW-18D	02/19/2019 10:45	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/26/2019 18:54
19021296-014A	GW-19S	02/19/2019 13:30	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 18:59	02/24/2019 20:29
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 18:59	02/26/2019 17:09
19021296-014B	GW-19S	02/19/2019 13:30	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 3:10
19021296-015A	GW-19D	02/19/2019 12:50	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 20:29	02/25/2019 0:53
19021296-015B	GW-19D	02/19/2019 12:50	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 3:36

Client: ERM

Client Project: Ameren Taylorville 1st Qtr 2019

Work Order: 19021296

Report Date: 01-Mar-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19021296-016A	GW-20	02/19/2019 15:24	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 20:29	02/25/2019 1:31
19021296-016B	GW-20	02/19/2019 15:24	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 4:03
19021296-017A	GW-21	02/19/2019 14:58	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 20:29	02/25/2019 2:08
19021296-017B	GW-21	02/19/2019 14:58	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 4:29
19021296-018A	GW-22S	02/20/2019 10:10	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 20:29	02/25/2019 2:46
19021296-018B	GW-22S	02/20/2019 10:10	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 4:55
19021296-019A	GW-22D	02/20/2019 9:45	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 20:29	02/25/2019 4:40
19021296-019B	GW-22D	02/20/2019 9:45	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 5:21
19021296-020A	GW-19S DUP	02/19/2019 13:30	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 20:29	02/25/2019 5:17
19021296-020B	GW-19S DUP	02/19/2019 13:30	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/23/2019 5:48
19021296-021A	GW-22D DUP	02/20/2019 9:45	02/21/2019 14:48		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/22/2019 20:31	02/25/2019 0:15
19021296-021B	GW-22D DUP	02/20/2019 9:45	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/22/2019 20:20
19021296-022A	Trip Blank 3	02/21/2019 14:48	02/21/2019 14:48		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/22/2019 20:48

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 150603 **SampType:** MBLK Units mg/L

SampID: MBLK-150603

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		ND						02/24/2019
Acenaphthylene	0.000100		ND						02/24/2019
Anthracene	0.000100		ND						02/24/2019
Benzo(a)anthracene	0.000100		ND						02/24/2019
Benzo(a)pyrene	0.000100		ND						02/24/2019
Benzo(b)fluoranthene	0.000100		ND						02/24/2019
Benzo(g,h,i)perylene	0.000200		ND						02/24/2019
Benzo(k)fluoranthene	0.000100		ND						02/24/2019
Bis(2-ethylhexyl)phthalate	0.00600		ND						02/24/2019
Chrysene	0.000100		ND						02/24/2019
Dibenzo(a,h)anthracene	0.000100		ND						02/24/2019
Fluoranthene	0.000200		ND						02/24/2019
Fluorene	0.000100		ND						02/24/2019
Indeno(1,2,3-cd)pyrene	0.000100		ND						02/24/2019
Naphthalene	0.000200		ND						02/24/2019
Phenanthrene	0.000400		ND						02/24/2019
Pyrene	0.000200	J	0.00011						02/24/2019
Surr: 2-Fluorobiphenyl			0.000527	).00100(		52.7	34.1	131	02/24/2019
Surr: Nitrobenzene-d5			0.000662	).00100(		66.2	35.1	136	02/24/2019
Surr: p-Terphenyl-d14			0.000916	).00100(		91.6	38.3	195	02/24/2019

Batch 150603 **SampType:** LCS Units mg/L

SampID: LCS-150603

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		0.00135	).00200(	0	67.3	53.7	105	02/24/2019
Acenaphthylene	0.000100		0.00147	).00200(	0	73.4	45.3	125	02/24/2019
Anthracene	0.000100		0.00158	).00200(	0	79.2	55.4	106	02/24/2019
Benzo(a)anthracene	0.000100		0.00169	).00200(	0	84.6	56.7	107	02/24/2019
Benzo(a)pyrene	0.000100		0.00182	).00200(	0	91.1	57.9	109	02/24/2019
Benzo(b)fluoranthene	0.000100		0.00179	).00200(	0	89.4	49.9	111	02/24/2019
Benzo(g,h,i)perylene	0.000200		0.00187	).00200(	0	93.6	52.2	118	02/24/2019
Benzo(k)fluoranthene	0.000100		0.00171	).00200(	0	85.4	56.5	110	02/24/2019
Bis(2-ethylhexyl)phthalate	0.00600	SE	0.0106	).00200(	0	528.5	65.4	171	02/24/2019
Chrysene	0.000100		0.00171	).00200(	0	85.4	56.4	113	02/24/2019
Dibenzo(a,h)anthracene	0.000100		0.00189	).00200(	0	94.5	49.6	130	02/24/2019
Fluoranthene	0.000200		0.00174	).00200(	0	86.9	57.1	116	02/24/2019
Fluorene	0.000100		0.00141	).00200(	0	70.3	57	106	02/24/2019
Indeno(1,2,3-cd)pyrene	0.000100		0.00174	).00200(	0	86.8	32.8	136	02/24/2019
Naphthalene	0.000200		0.00127	).00200(	0	63.6	45.1	114	02/24/2019
Phenanthrene	0.000400		0.00168	).00200(	0	84.2	58.7	111	02/24/2019
Pyrene	0.000200	B	0.00175	).00200(	0	87.6	54.9	116	02/24/2019
Surr: 2-Fluorobiphenyl			0.000682	).00100(		68.2	34.1	131	02/24/2019
Surr: Nitrobenzene-d5			0.000810	).00100(		81.0	35.1	136	02/24/2019
Surr: p-Terphenyl-d14			0.000989	).00100(		98.9	38.3	195	02/24/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 150603 **SampType:** LCSD Units mg/L RPD Limit 40

SampID: LCSD-150603

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		0.00139	0.00200	0	69.6	0.001346	3.38	02/24/2019
Acenaphthylene	0.000100		0.00152	0.00200	0	75.9	0.001467	3.37	02/24/2019
Anthracene	0.000100		0.00149	0.00200	0	74.7	0.001583	5.86	02/24/2019
Benzo(a)anthracene	0.000100		0.00167	0.00200	0	83.4	0.001692	1.45	02/24/2019
Benzo(a)pyrene	0.000100		0.00175	0.00200	0	87.5	0.001822	4.06	02/24/2019
Benzo(b)fluoranthene	0.000100		0.00188	0.00200	0	93.8	0.001789	4.80	02/24/2019
Benzo(g,h,i)perylene	0.000200		0.00180	0.00200	0	89.9	0.001872	4.00	02/24/2019
Benzo(k)fluoranthene	0.000100		0.00168	0.00200	0	84.2	0.001707	1.37	02/24/2019
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0024	0.00200	0	120.1	0.01057	0.00	02/24/2019
Chrysene	0.000100		0.00162	0.00200	0	81.2	0.001708	5.02	02/24/2019
Dibenzo(a,h)anthracene	0.000100		0.00183	0.00200	0	91.7	0.001890	3.04	02/24/2019
Fluoranthene	0.000200		0.00167	0.00200	0	83.3	0.001738	4.18	02/24/2019
Fluorene	0.000100		0.00139	0.00200	0	69.6	0.001407	1.10	02/24/2019
Indeno(1,2,3-cd)pyrene	0.000100		0.00178	0.00200	0	89.0	0.001736	2.55	02/24/2019
Naphthalene	0.000200		0.00124	0.00200	0	62.0	0.001273	2.66	02/24/2019
Phenanthrene	0.000400		0.00150	0.00200	0	74.9	0.001684	11.64	02/24/2019
Pyrene	0.000200	B	0.00161	0.00200	0	80.7	0.001752	8.28	02/24/2019
Surr: 2-Fluorobiphenyl			0.000683	0.00100		68.3			02/24/2019
Surr: Nitrobenzene-d5			0.000768	0.00100		76.8			02/24/2019
Surr: p-Terphenyl-d14			0.000936	0.00100		93.6			02/24/2019

Batch 150603 **SampType:** MS Units mg/L

SampID: 19021296-018AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		0.00159	0.00200	0	79.4	40.5	121	02/25/2019
Acenaphthylene	0.000100		0.00172	0.00200	0	85.8	50.9	132	02/25/2019
Anthracene	0.000100		0.00170	0.00200	0	85.1	62.1	120	02/25/2019
Benzo(a)anthracene	0.000100		0.00155	0.00200	0	77.3	67.8	119	02/25/2019
Benzo(a)pyrene	0.000100		0.00167	0.00200	0	83.6	73.8	124	02/25/2019
Benzo(b)fluoranthene	0.000100		0.00172	0.00200	0	86.0	73.3	119	02/25/2019
Benzo(g,h,i)perylene	0.000200		0.00169	0.00200	0	84.7	56.3	139	02/25/2019
Benzo(k)fluoranthene	0.000100		0.00165	0.00200	0	82.5	69.5	115	02/25/2019
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0026	0.00200	0	132.0	33.3	221	02/25/2019
Chrysene	0.000100		0.00150	0.00200	0	75.0	69	112	02/25/2019
Dibenzo(a,h)anthracene	0.000100		0.00183	0.00200	0	91.5	66.1	135	02/25/2019
Fluoranthene	0.000200		0.00178	0.00200	0	88.8	69.4	117	02/25/2019
Fluorene	0.000100		0.00158	0.00200	0	79.1	54.3	116	02/25/2019
Indeno(1,2,3-cd)pyrene	0.000100		0.00155	0.00200	0	77.6	62.5	136	02/25/2019
Naphthalene	0.000200		0.00143	0.00200	0	71.3	34.6	129	02/25/2019
Phenanthrene	0.000400		0.00164	0.00200	0	81.8	62.4	108	02/25/2019
Pyrene	0.000200	B	0.00181	0.00200	0	90.4	64.2	118	02/25/2019
Surr: 2-Fluorobiphenyl			0.000847	0.00100		84.7	10	164	02/25/2019
Surr: Nitrobenzene-d5			0.000947	0.00100		94.7	10.3	142	02/25/2019
Surr: p-Terphenyl-d14			0.00102	0.00100		102.0	47.1	148	02/25/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 150603 **SampType:** MSD Units mg/L RPD Limit 40

SampID: 19021296-018AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00168**	0.00200	0	83.9	0.001589	5.46	02/25/2019
Acenaphthylene	0.000100		**0.00179**	0.00200	0	89.4	0.001716	4.13	02/25/2019
Anthracene	0.000100		**0.00163**	0.00200	0	81.5	0.001703	4.42	02/25/2019
Benzo(a)anthracene	0.000100		**0.00160**	0.00200	0	79.9	0.001547	3.32	02/25/2019
Benzo(a)pyrene	0.000100		**0.00160**	0.00200	0	80.0	0.001672	4.43	02/25/2019
Benzo(b)fluoranthene	0.000100		**0.00173**	0.00200	0	86.7	0.001721	0.79	02/25/2019
Benzo(g,h,i)perylene	0.000200		**0.00174**	0.00200	0	86.8	0.001694	2.37	02/25/2019
Benzo(k)fluoranthene	0.000100		**0.00166**	0.00200	0	83.2	0.001649	0.85	02/25/2019
Bis(2-ethylhexyl)phthalate	0.00600	J	**0.0033**	0.00200	0	165.2	0.002639	0.00	02/25/2019
Chrysene	0.000100		**0.00159**	0.00200	0	79.5	0.001501	5.77	02/25/2019
Dibenzo(a,h)anthracene	0.000100		**0.00183**	0.00200	0	91.6	0.001830	0.07	02/25/2019
Fluoranthene	0.000200		**0.00178**	0.00200	0	89.0	0.001777	0.15	02/25/2019
Fluorene	0.000100		**0.00176**	0.00200	0	88.0	0.001582	10.64	02/25/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00164**	0.00200	0	82.2	0.001553	5.73	02/25/2019
Naphthalene	0.000200		**0.00148**	0.00200	0	74.1	0.001426	3.88	02/25/2019
Phenanthrene	0.000400		**0.00171**	0.00200	0	85.7	0.001636	4.60	02/25/2019
Pyrene	0.000200	B	**0.00171**	0.00200	0	85.4	0.001809	5.72	02/25/2019
Surr: 2-Fluorobiphenyl			**0.000815**	0.00100		81.5			02/25/2019
Surr: Nitrobenzene-d5			**0.000917**	0.00100		91.7			02/25/2019
Surr: p-Terphenyl-d14			**0.000943**	0.00100		94.3			02/25/2019

Batch 150625 **SampType:** MBLK Units mg/L

SampID: MBLK-150625

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						02/24/2019
Acenaphthylene	0.000100		**ND**						02/24/2019
Anthracene	0.000100		**ND**						02/24/2019
Benzo(a)anthracene	0.000100		**ND**						02/24/2019
Benzo(a)pyrene	0.000100		**ND**						02/24/2019
Benzo(b)fluoranthene	0.000100		**ND**						02/24/2019
Benzo(g,h,i)perylene	0.000200		**ND**						02/24/2019
Benzo(k)fluoranthene	0.000100		**ND**						02/24/2019
Bis(2-ethylhexyl)phthalate	0.00600		**ND**						02/24/2019
Chrysene	0.000100		**ND**						02/24/2019
Dibenzo(a,h)anthracene	0.000100		**ND**						02/24/2019
Fluoranthene	0.000200		**ND**						02/24/2019
Fluorene	0.000100		**ND**						02/24/2019
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						02/24/2019
Naphthalene	0.000200		**ND**						02/24/2019
Phenanthrene	0.000400		**ND**						02/24/2019
Pyrene	0.000200		**ND**						02/24/2019
Surr: 2-Fluorobiphenyl			**0.000790**	0.00100		79.0	34.1	131	02/24/2019
Surr: Nitrobenzene-d5			**0.000995**	0.00100		99.5	35.1	136	02/24/2019
Surr: p-Terphenyl-d14			**0.00104**	0.00100		104.0	38.3	195	02/24/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 150625 **SampType:** LCS Units mg/L

SampID: LCS-150625

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		0.00161	0.00200	0	80.4	53.7	105	02/24/2019
Acenaphthylene	0.000100		0.00176	0.00200	0	87.9	45.3	125	02/24/2019
Anthracene	0.000100		0.00164	0.00200	0	82.2	55.4	106	02/24/2019
Benzo(a)anthracene	0.000100		0.00169	0.00200	0	84.3	56.7	107	02/24/2019
Benzo(a)pyrene	0.000100		0.00177	0.00200	0	88.3	57.9	109	02/24/2019
Benzo(b)fluoranthene	0.000100		0.00180	0.00200	0	90.2	49.9	111	02/24/2019
Benzo(g,h,i)perylene	0.000200		0.00186	0.00200	0	93.2	52.2	118	02/24/2019
Benzo(k)fluoranthene	0.000100		0.00172	0.00200	0	85.9	56.5	110	02/24/2019
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0023	0.00200	0	113.4	65.4	171	02/24/2019
Chrysene	0.000100		0.00170	0.00200	0	84.9	56.4	113	02/24/2019
Dibenzo(a,h)anthracene	0.000100		0.00195	0.00200	0	97.5	49.6	130	02/24/2019
Fluoranthene	0.000200		0.00186	0.00200	0	93.1	57.1	116	02/24/2019
Fluorene	0.000100		0.00160	0.00200	0	80.2	57	106	02/24/2019
Indeno(1,2,3-cd)pyrene	0.000100		0.00176	0.00200	0	87.9	32.8	136	02/24/2019
Naphthalene	0.000200		0.00152	0.00200	0	75.8	45.1	114	02/24/2019
Phenanthrene	0.000400		0.00178	0.00200	0	89.0	58.7	111	02/24/2019
Pyrene	0.000200		0.00180	0.00200	0	90.0	54.9	116	02/24/2019
Surr: 2-Fluorobiphenyl			0.000871	0.00100		87.1	34.1	131	02/24/2019
Surr: Nitrobenzene-d5			0.00103	0.00100		102.9	35.1	136	02/24/2019
Surr: p-Terphenyl-d14			0.00105	0.00100		104.6	38.3	195	02/24/2019

Batch 150625 **SampType:** LCSD Units mg/L RPD Limit 40

SampID: LCSD-150625

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		0.00164	0.00200	0	82.1	0.001607	2.10	02/24/2019
Acenaphthylene	0.000100		0.00170	0.00200	0	84.9	0.001758	3.46	02/24/2019
Anthracene	0.000100		0.00158	0.00200	0	79.1	0.001643	3.83	02/24/2019
Benzo(a)anthracene	0.000100		0.00167	0.00200	0	83.7	0.001685	0.71	02/24/2019
Benzo(a)pyrene	0.000100		0.00184	0.00200	0	92.0	0.001766	4.11	02/24/2019
Benzo(b)fluoranthene	0.000100		0.00191	0.00200	0	95.4	0.001803	5.67	02/24/2019
Benzo(g,h,i)perylene	0.000200		0.00179	0.00200	0	89.3	0.001865	4.34	02/24/2019
Benzo(k)fluoranthene	0.000100		0.00178	0.00200	0	88.8	0.001717	3.42	02/24/2019
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0022	0.00200	0	112.1	0.002269	0.00	02/24/2019
Chrysene	0.000100		0.00164	0.00200	0	82.2	0.001698	3.30	02/24/2019
Dibenzo(a,h)anthracene	0.000100		0.00189	0.00200	0	94.6	0.001950	3.00	02/24/2019
Fluoranthene	0.000200		0.00161	0.00200	0	80.6	0.001862	14.45	02/24/2019
Fluorene	0.000100		0.00164	0.00200	0	82.0	0.001605	2.13	02/24/2019
Indeno(1,2,3-cd)pyrene	0.000100		0.00175	0.00200	0	87.5	0.001758	0.47	02/24/2019
Naphthalene	0.000200		0.00144	0.00200	0	72.0	0.001515	5.09	02/24/2019
Phenanthrene	0.000400		0.00166	0.00200	0	83.2	0.001780	6.73	02/24/2019
Pyrene	0.000200		0.00172	0.00200	0	86.0	0.001801	4.54	02/24/2019
Surr: 2-Fluorobiphenyl			0.000792	0.00100		79.2			02/24/2019
Surr: Nitrobenzene-d5			0.000966	0.00100		96.6			02/24/2019
Surr: p-Terphenyl-d14			0.000956	0.00100		95.6			02/24/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 150639 **SampType:** MBLK Units µg/L

SampID: MBLK-T190222A-2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						02/22/2019
Bromoform	2.0		ND						02/22/2019
Ethylbenzene	2.0		ND						02/22/2019
m,p-Xylenes	2.0		ND						02/22/2019
Methylene chloride	10.0		ND						02/22/2019
Naphthalene	5.0		ND						02/22/2019
o-Xylene	2.0		ND						02/22/2019
Toluene	2.0		ND						02/22/2019
trans-1,2-Dichloroethene	2.0		ND						02/22/2019
Xylenes, Total	4.0		ND						02/22/2019
Surr: 1,2-Dichloroethane-d4			48.9	50.00		97.8	79.6	118	02/22/2019
Surr: 4-Bromofluorobenzene			51.2	50.00		102.3	83.9	115	02/22/2019
Surr: Dibromofluoromethane			50.1	50.00		100.2	84.9	113	02/22/2019
Surr: Toluene-d8			48.5	50.00		97.0	86.7	112	02/22/2019

Batch 150639 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-T190222A-2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		51.7	50.00	0	103.4	51.70	0.04	02/22/2019
Bromoform	2.0		53.1	50.00	0	106.2	53.15	0.06	02/22/2019
Ethylbenzene	2.0		49.2	50.00	0	98.4	49.51	0.63	02/22/2019
m,p-Xylenes	2.0		98.0	100.0	0	98.0	99.98	2.05	02/22/2019
Methylene chloride	10.0		47.3	50.00	0	94.7	47.37	0.08	02/22/2019
Naphthalene	5.0		49.8	50.00	0	99.5	48.89	1.78	02/22/2019
o-Xylene	2.0		49.5	50.00	0	99.0	49.97	0.90	02/22/2019
Toluene	2.0		49.3	50.00	0	98.6	50.11	1.67	02/22/2019
trans-1,2-Dichloroethene	2.0		54.2	50.00	0	108.5	53.88	0.68	02/22/2019
Xylenes, Total	4.0		147	150.0	0	98.3	150.0	1.67	02/22/2019
Surr: 1,2-Dichloroethane-d4			49.7	50.00		99.4			02/22/2019
Surr: 4-Bromofluorobenzene			49.3	50.00		98.7			02/22/2019
Surr: Dibromofluoromethane			52.3	50.00		104.7			02/22/2019
Surr: Toluene-d8			48.2	50.00		96.4			02/22/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 150639 **SampType:** LCS Units µg/L

SampID: LCS-T190222A-2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		51.7	50.00	0	103.4	75.8	121	02/22/2019
Bromoform	2.0		53.2	50.00	0	106.3	85.5	128	02/22/2019
Ethylbenzene	2.0		49.5	50.00	0	99.0	80.7	114	02/22/2019
m,p-Xylenes	2.0		100	100.0	0	100.0	80.5	113	02/22/2019
Methylene chloride	10.0		47.4	50.00	0	94.7	76.2	119	02/22/2019
Naphthalene	5.0		48.9	50.00	0	97.8	76.1	129	02/22/2019
o-Xylene	2.0		50.0	50.00	0	99.9	79.7	112	02/22/2019
Toluene	2.0		50.1	50.00	0	100.2	78.3	112	02/22/2019
trans-1,2-Dichloroethene	2.0		53.9	50.00	0	107.8	73.5	124	02/22/2019
Xylenes, Total	4.0		150	150.0	0	100.0	80.2	113	02/22/2019
Surr: 1,2-Dichloroethane-d4			48.9	50.00		97.8	79.6	118	02/22/2019
Surr: 4-Bromofluorobenzene			49.7	50.00		99.3	83.9	115	02/22/2019
Surr: Dibromofluoromethane			52.0	50.00		103.9	84.9	113	02/22/2019
Surr: Toluene-d8			48.9	50.00		97.7	86.7	112	02/22/2019

Batch 150639 **SampType:** MS Units µg/L

SampID: 19021296-018BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.50		49.0	50.00	0	97.9	62.5	121	02/23/2019
Ethylbenzene	1.00		48.2	50.00	0	96.3	74.4	130	02/23/2019
m,p-Xylenes	1.00		47.9	50.00	0	95.9	70.5	126	02/23/2019
o-Xylene	1.00		46.4	50.00	0	92.8	71.2	124	02/23/2019
Toluene	2.00		47.0	50.00	0	94.1	69.5	118	02/23/2019
Xylenes, Total	2.00		94.3	100.0	0	94.3	71.1	125	02/23/2019
Surr: 1,2-Dichloroethane-d4			49.3	50.00		98.6	79.6	118	02/23/2019
Surr: 4-Bromofluorobenzene			49.8	50.00		99.6	83.9	115	02/23/2019
Surr: Dibromofluoromethane			50.1	50.00		100.2	84.9	113	02/23/2019
Surr: Toluene-d8			49.1	50.00		98.2	86.7	112	02/23/2019

Batch 150639 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 19021296-018BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.50		43.5	50.00	0	87.0	48.95	11.79	02/23/2019
Ethylbenzene	1.00		43.0	50.00	0	86.1	48.15	11.23	02/23/2019
m,p-Xylenes	1.00		42.0	50.00	0	84.1	47.93	13.09	02/23/2019
o-Xylene	1.00		42.6	50.00	0	85.2	46.39	8.49	02/23/2019
Toluene	2.00		40.7	50.00	0	81.5	47.04	14.35	02/23/2019
Xylenes, Total	2.00		84.6	100.0	0	84.6	94.32	10.81	02/23/2019
Surr: 1,2-Dichloroethane-d4			49.2	50.00		98.3			02/23/2019
Surr: 4-Bromofluorobenzene			50.3	50.00		100.6			02/23/2019
Surr: Dibromofluoromethane			49.9	50.00		99.7			02/23/2019
Surr: Toluene-d8			48.7	50.00		97.4			02/23/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 150649 **SampType:** MBLK Units µg/L

SampID: MBLK-N190222A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						02/22/2019
Bromoform	2.0		ND						02/22/2019
Ethylbenzene	2.0		ND						02/22/2019
m,p-Xylenes	2.0		ND						02/22/2019
Methylene chloride	10.0		ND						02/22/2019
Naphthalene	5.0		ND						02/22/2019
o-Xylene	2.0		ND						02/22/2019
Toluene	2.0		ND						02/22/2019
trans-1,2-Dichloroethene	2.0		ND						02/22/2019
Xylenes, Total	4.0		ND						02/22/2019
Surr: 1,2-Dichloroethane-d4			52.1	50.00		104.2	79.6	118	02/22/2019
Surr: 4-Bromofluorobenzene			50.3	50.00		100.7	83.9	115	02/22/2019
Surr: Dibromofluoromethane			50.4	50.00		100.7	84.9	113	02/22/2019
Surr: Toluene-d8			50.1	50.00		100.2	86.7	112	02/22/2019

Batch 150649 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-N190222A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		45.2	50.00	0	90.3	47.54	5.11	02/22/2019
Bromoform	2.0		56.4	50.00	0	112.8	55.54	1.54	02/22/2019
Ethylbenzene	2.0		50.4	50.00	0	100.7	51.43	2.08	02/22/2019
m,p-Xylenes	2.0		102	100.0	0	102.0	97.27	4.77	02/22/2019
Methylene chloride	10.0		45.6	50.00	0	91.3	45.69	0.11	02/22/2019
Naphthalene	5.0		51.8	50.00	0	103.7	55.74	7.25	02/22/2019
o-Xylene	2.0		51.6	50.00	0	103.2	48.52	6.17	02/22/2019
Toluene	2.0		48.6	50.00	0	97.3	48.02	1.26	02/22/2019
trans-1,2-Dichloroethene	2.0		49.4	50.00	0	98.7	50.36	2.03	02/22/2019
Xylenes, Total	4.0		154	150.0	0	102.4	145.8	5.24	02/22/2019
Surr: 1,2-Dichloroethane-d4			51.7	50.00		103.5			02/22/2019
Surr: 4-Bromofluorobenzene			49.5	50.00		98.9			02/22/2019
Surr: Dibromofluoromethane			52.4	50.00		104.8			02/22/2019
Surr: Toluene-d8			50.8	50.00		101.7			02/22/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 150649 **SampType:** LCS Units µg/L

SampID: LCS-N190222A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		47.5	50.00	0	95.1	75.8	121	02/22/2019
Bromoform	2.0		55.5	50.00	0	111.1	85.5	128	02/22/2019
Ethylbenzene	2.0		51.4	50.00	0	102.9	80.7	114	02/22/2019
m,p-Xylenes	2.0		97.3	100.0	0	97.3	80.5	113	02/22/2019
Methylene chloride	10.0		45.7	50.00	0	91.4	76.2	119	02/22/2019
Naphthalene	5.0		55.7	50.00	0	111.5	76.1	129	02/22/2019
o-Xylene	2.0		48.5	50.00	0	97.0	79.7	112	02/22/2019
Toluene	2.0		48.0	50.00	0	96.0	78.3	112	02/22/2019
trans-1,2-Dichloroethene	2.0		50.4	50.00	0	100.7	73.5	124	02/22/2019
Xylenes, Total	4.0		146	150.0	0	97.2	80.2	113	02/22/2019
Surr: 1,2-Dichloroethane-d4			52.9	50.00		105.7	79.6	118	02/22/2019
Surr: 4-Bromofluorobenzene			50.6	50.00		101.1	83.9	115	02/22/2019
Surr: Dibromofluoromethane			50.8	50.00		101.6	84.9	113	02/22/2019
Surr: Toluene-d8			50.0	50.00		100.1	86.7	112	02/22/2019

Batch 150693 **SampType:** MBLK Units µg/L

SampID: MBLK-T190225A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						02/25/2019
Bromoform	2.0		ND						02/25/2019
Ethylbenzene	2.0		ND						02/25/2019
m,p-Xylenes	2.0		ND						02/25/2019
Methylene chloride	10.0		ND						02/25/2019
Naphthalene	5.0		ND						02/25/2019
o-Xylene	2.0		ND						02/25/2019
Toluene	2.0		ND						02/25/2019
trans-1,2-Dichloroethene	2.0		ND						02/25/2019
Xylenes, Total	4.0		ND						02/25/2019
Surr: 1,2-Dichloroethane-d4			49.7	50.00		99.4	79.6	118	02/25/2019
Surr: 4-Bromofluorobenzene			50.2	50.00		100.3	83.9	115	02/25/2019
Surr: Dibromofluoromethane			51.0	50.00		102.1	84.9	113	02/25/2019
Surr: Toluene-d8			48.6	50.00		97.2	86.7	112	02/25/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 150693 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-T190225A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		47.8	50.00	0	95.5	49.59	3.78	02/25/2019
Bromoform	2.0		50.8	50.00	0	101.6	49.61	2.41	02/25/2019
Ethylbenzene	2.0		45.5	50.00	0	91.1	47.45	4.11	02/25/2019
m,p-Xylenes	2.0		93.0	100.0	0	93.0	94.65	1.77	02/25/2019
Methylene chloride	10.0		45.8	50.00	0	91.6	46.67	1.88	02/25/2019
Naphthalene	5.0		51.2	50.00	0	102.4	49.50	3.36	02/25/2019
o-Xylene	2.0		45.7	50.00	0	91.4	47.67	4.22	02/25/2019
Toluene	2.0		45.7	50.00	0	91.4	47.59	4.03	02/25/2019
trans-1,2-Dichloroethene	2.0		50.0	50.00	0	100.0	51.45	2.82	02/25/2019
Xylenes, Total	4.0		139	150.0	0	92.5	142.3	2.58	02/25/2019
Surr: 1,2-Dichloroethane-d4			48.8	50.00		97.6			02/25/2019
Surr: 4-Bromofluorobenzene			50.7	50.00		101.5			02/25/2019
Surr: Dibromofluoromethane			51.4	50.00		102.7			02/25/2019
Surr: Toluene-d8			49.2	50.00		98.5			02/25/2019

Batch 150693 **SampType:** LCS Units µg/L

SampID: LCS-T190225A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		49.6	50.00	0	99.2	75.8	121	02/25/2019
Bromoform	2.0		49.6	50.00	0	99.2	85.5	128	02/25/2019
Ethylbenzene	2.0		47.4	50.00	0	94.9	80.7	114	02/25/2019
m,p-Xylenes	2.0		94.6	100.0	0	94.6	80.5	113	02/25/2019
Methylene chloride	10.0		46.7	50.00	0	93.3	76.2	119	02/25/2019
Naphthalene	5.0		49.5	50.00	0	99.0	76.1	129	02/25/2019
o-Xylene	2.0		47.7	50.00	0	95.3	79.7	112	02/25/2019
Toluene	2.0		47.6	50.00	0	95.2	78.3	112	02/25/2019
trans-1,2-Dichloroethene	2.0		51.4	50.00	0	102.9	73.5	124	02/25/2019
Xylenes, Total	4.0		142	150.0	0	94.9	80.2	113	02/25/2019
Surr: 1,2-Dichloroethane-d4			48.6	50.00		97.2	79.6	118	02/25/2019
Surr: 4-Bromofluorobenzene			51.0	50.00		101.9	83.9	115	02/25/2019
Surr: Dibromofluoromethane			50.5	50.00		101.0	84.9	113	02/25/2019
Surr: Toluene-d8			49.0	50.00		97.9	86.7	112	02/25/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 150727 **SampType:** MBLK Units µg/L

SampID: MBLK-T190226A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						02/26/2019
Bromoform	2.0		ND						02/26/2019
Ethylbenzene	2.0		ND						02/26/2019
m,p-Xylenes	2.0	J	0.2						02/26/2019
Methylene chloride	10.0		ND						02/26/2019
Naphthalene	5.0		ND						02/26/2019
o-Xylene	2.0		ND						02/26/2019
Toluene	2.0		ND						02/26/2019
trans-1,2-Dichloroethene	2.0		ND						02/26/2019
Xylenes, Total	4.0		ND						02/26/2019
Surr: 1,2-Dichloroethane-d4			50.5	50.00		101.0	79.6	118	02/26/2019
Surr: 4-Bromofluorobenzene			50.0	50.00		99.9	83.9	115	02/26/2019
Surr: Dibromofluoromethane			50.1	50.00		100.2	84.9	113	02/26/2019
Surr: Toluene-d8			49.2	50.00		98.4	86.7	112	02/26/2019

Batch 150727 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-T190226A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		52.4	50.00	0	104.7	54.65	4.28	02/26/2019
Bromoform	2.0		53.3	50.00	0	106.6	54.66	2.50	02/26/2019
Ethylbenzene	2.0		51.2	50.00	0	102.4	52.97	3.44	02/26/2019
m,p-Xylenes	2.0		105	100.0	0	104.8	107.8	2.79	02/26/2019
Methylene chloride	10.0		49.1	50.00	0	98.2	50.26	2.36	02/26/2019
Naphthalene	5.0		53.4	50.00	0	106.8	54.35	1.73	02/26/2019
o-Xylene	2.0		52.1	50.00	0	104.2	54.42	4.36	02/26/2019
Toluene	2.0		51.8	50.00	0	103.5	52.15	0.77	02/26/2019
trans-1,2-Dichloroethene	2.0		56.6	50.00	0	113.1	58.20	2.88	02/26/2019
Xylenes, Total	4.0		157	150.0	0	104.6	162.2	3.32	02/26/2019
Surr: 1,2-Dichloroethane-d4			49.5	50.00		99.0			02/26/2019
Surr: 4-Bromofluorobenzene			50.8	50.00		101.5			02/26/2019
Surr: Dibromofluoromethane			51.4	50.00		102.8			02/26/2019
Surr: Toluene-d8			48.7	50.00		97.5			02/26/2019

Client: ERM

Work Order: 19021296

Client Project: Ameren Taylorville 1st Qtr 2019

Report Date: 01-Mar-2019

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 150727 **SampType:** LCS Units µg/L

SampID: LCS-T190226A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		54.6	50.00	0	109.3	75.8	121	02/26/2019
Bromoform	2.0		54.7	50.00	0	109.3	85.5	128	02/26/2019
Ethylbenzene	2.0		53.0	50.00	0	105.9	80.7	114	02/26/2019
m,p-Xylenes	2.0		108	100.0	0	107.8	80.5	113	02/26/2019
Methylene chloride	10.0		50.3	50.00	0	100.5	76.2	119	02/26/2019
Naphthalene	5.0		54.4	50.00	0	108.7	76.1	129	02/26/2019
o-Xylene	2.0		54.4	50.00	0	108.8	79.7	112	02/26/2019
Toluene	2.0		52.2	50.00	0	104.3	78.3	112	02/26/2019
trans-1,2-Dichloroethene	2.0		58.2	50.00	0	116.4	73.5	124	02/26/2019
Xylenes, Total	4.0		162	150.0	0	108.1	80.2	113	02/26/2019
Surr: 1,2-Dichloroethane-d4			50.0	50.00		100.0	79.6	118	02/26/2019
Surr: 4-Bromofluorobenzene			51.4	50.00		102.9	83.9	115	02/26/2019
Surr: Dibromofluoromethane			51.2	50.00		102.3	84.9	113	02/26/2019
Surr: Toluene-d8			49.6	50.00		99.2	86.7	112	02/26/2019

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: ERM

Client Project: Ameren Taylorville 1st Qtr 2019

Work Order: 19021296

Report Date: 01-Mar-2019

Carrier: Gary Quigley

Received By: MEK

Completed by: Amber M. Dilallo
On: 21-Feb-2019

Reviewed by: Elizabeth A. Hurley
On: 21-Feb-2019

Pages to follow: Chain of custody [3] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.42
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☑	No ☐	No VOA vials ☐	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. 1 of 3 Work order # 19021296

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	ERM
Address:	68 Villa Grove
City / State / Zip	Springfield, IL 62712
Contact:	Brett Carney
Phone:	(217) 529-0914
E-Mail:	brett.carney@erm.com
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 4.2 °C

Preserved in: ☒ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes:

GW-16D OK HS. Ø HS MEK 2/21/19

Client Comments —

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No

Are these samples known to be hazardous? ☐ Yes ☐ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

Project Name/Number	Sample Collector's Name
Ameren Taylorville 2nd Qtr 2018	

Results Requested

☐ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HCl	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: PAHs	VOCs
19021296 001	GW-01	2/19/19 0900	1	2		X		X	X
002	GW-02	2/20/19 1300	1	2		X		X	X
003	GW-03	2/20/19 1235	1	2		X		X	X
004	GW-04R	2/20/19 1145	1	2		X		X	X
005	GW-05	2/20/19 1445	1	2		X		X	X
006	GW-07	2/18/19 1630	1	2		X		X	X
007	GW-14	2/19/19 0830	1	2		X		X	X
008	GW-15	2/20/19 1110	1	2		X		X	X
009	GW-16S	2/18/19 1420	1	2		X		X	X
010	GW-16D	2/18/19 1345	1	2		X		X	X

Relinquished By	Date/Time	Received By	Date/Time
	2/21/19 1230	2-21-19	12:30
	2-21-19 14:48	May Kemp	2/21/19 1448

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 48836

MEK 2/21/19

CHAIN OF CUSTODY

pg. 2 of 3 Work order # 19021296

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	ERM		
Address:	68 Villa Grove		
City / State / Zip	Springfield, IL 62712		
Contact:	Brett Carney	**Phone:**	(217) 529-0914
E-Mail:	brett.carney@erm.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No

Are these samples known to be hazardous? ☐ Yes ☐ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

Project Name/Number	Sample Collector's Name
Ameren Taylorville 2nd Qtr 2018	

Results Requested

☐ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HCl	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: PAHs	VOCs
19021296 011	GW-17	2/18/19 1500	1	2		X		X	X
012	GW-18S	2/19/19 1115	1	2		X		X	X
013	GW-18D	2/19/19 1045	1	2		X		X	X
014	GW-19S	2/19/19 1330	1	2		X		X	X
015	GW-19D	2/19/19 1250	1	2		X		X	X
016	GW-20	2/19/19 1524	1	2		X		X	X
017	GW-21	2/19/19 1458	1	2		X		X	X
018	GW-22S	2/20/19 1010	1	2		X		X	X
019	GW-22D	2/20/19 0445	1	2		X		X	X
	~~GW-24~~ W		1	2		X		X	X

Relinquished By	Date/Time	Received By	Date/Time
	2/21/19 1230		2-21-19 / 2:30
	2-21-19 14:48	Mary Kemp	2/21/19 1448

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 48836

CHAIN OF CUSTODY

pg. 3 of 3 Work order # 1902296

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	ERM		
Address:	68 Villa Grove		
City / State / Zip	Springfield, IL 62712		
Contact:	Brett Carney	**Phone:**	(217) 529-0914
E-Mail:	brett.carney@erm.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C

Preserved in: ☒ LAB ☒ FIELD **FOR LAB USE ONLY**

Lab Notes: Trip Blank, 1, 2 & 4 received cm 2/21/19

Client Comments

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No

Are these samples known to be hazardous? ☐ Yes ☐ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

Project Name/Number	Sample Collector's Name
Ameren Taylorville 2nd Qtr 2018	

Results Requested

☐ Standard ☐ 1-2 Day (100% Surcharge)

☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HCl	MATRIX: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: PAHs	VOCs
1902296 020	~~Dup 1~~ GW-195 DUP	2/19/19 1330	1	2		X		X	X
021	~~Field Blank 1~~ GW-220 DUP	2/20/19 0995	1	2		X		X	X
023	~~Trip Blank 1~~			2			X		X
024	~~Trip Blank 2~~			2			X		X
022	Trip Blank 3	2/11/19 —		2			X		X
025	~~Trip Blank 4~~			2			X		X
0	~~Dup 2~~		1	2		X		X	X
018	MS/MSD 1	2/20/19 1010	2	4		X		X	X
	~~MS/MSD 2~~		2	4		X		X	X

Relinquished By	Date/Time	Received By	Date/Time
	2/21/19 1230		2-21-19 12:30
	2-21-19 14:48	Mary Kemp	2/21/19 1448

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 48836