Ameren

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18-67015

0218160007-Christian
Taylorville/Ameren CIPS
SF/TECH

Ameren Services

April 30, 2018

IEPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUL 16 2018

REVIEWER: RDH

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, 2018 report for the Taylorville Manufactured Gas Plant Site. This report is a summary of events. 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, 2018.

First Quarter – 2018 Events

- First quarter 2018 groundwater samples collected in February 2018 (results attached).
- 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.
- Searching for a replacement operator.

Second Quarter – 2018 Plans

- Collect second quarter groundwater samples
- Continue searching for a replacement operator

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. There not been any migration of contamination off-site.

Sincerely yours,

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

cc: File WM10.33

RECEIVED
MAY - 3 2018
IEPA-BOL-FSRS

18-67015

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)

March 6, 2018

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

RE: Year 2018 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 2018 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. Monitoring Well GW-7 also had an exceedance to an RO, but there were no exceedances in any other wells. Both of these wells are located toward the middle of the site, in close proximity to where the MGP was located. All of the other wells did not have exceedances to the ROs, including wells on the downgradient (south) edge of the site (GW-16S, GW-16D, and the proposed compliance well GW-17). 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, P.G.
Project Manager
Environmental Resources Management
68 Villa Grove
Springfield, IL 62712

Environmental
Resources
Management

ATTACHMENT

ANALYTICAL RESULTS
FEBRUARY 2018

February 28, 2018

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

RE: Taylorville Ameren

WorkOrder: 18020995

Dear Brett Carney:

TEKLAB, INC received 23 samples on 2/16/2018 9:20:00 AM 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

Client: ERM
Client Project: Taylorville Ameren

Work Order: 18020995
Report Date: 28-Feb-18

This reporting package includes the following:

Client: ERM **Work Order:** 18020995

Client Project: Taylorville Ameren **Report Date:** 28-Feb-18

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.
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 dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
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, spiked with verified known amounts of analytes, is 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. The acceptable recovery range is in the QC Package (provided upon request).
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	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
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. The acceptable recovery range is listed in the QC Package (provided upon request).
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
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: Taylorville Ameren

Work Order: 18020995
Report Date: 28-Feb-18

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: 18020995

Client Project: Taylorville Ameren

Report Date: 28-Feb-18

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2018	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2018	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2018	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2018	Collinsville
Arkansas	ADEQ	88-0966		3/14/2018	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Oklahoma	ODEQ	9978		8/31/2018	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-001
Client Sample ID: GW-16S
Matrix: GROUNDWATER
Collection Date: 02/14/2018 12:15

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	02/23/2018 12:21	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0250		**0.0446**	mg/L	25	02/24/2018 14:33	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 12:21	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 12:21	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 12:21	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:21	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**73.4**	%REC	1	02/23/2018 12:21	139166
Surr: Nitrobenzene-d5	*	10.6-152		**77.6**	%REC	1	02/23/2018 12:21	139166
Surr: p-Terphenyl-d14	*	10.6-169		**100.5**	%REC	1	02/23/2018 12:21	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 11:07	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:07	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:07	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:07	139198
Methylene chloride	NELAP	0.50	J	**0.34**	µg/L	1	02/19/2018 11:07	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:07	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:07	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:07	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:07	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:07	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**97.4**	%REC	1	02/19/2018 11:07	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**102.3**	%REC	1	02/19/2018 11:07	139198
Surr: Dibromofluoromethane	*	84.9-113		**99.5**	%REC	1	02/19/2018 11:07	139198
Surr: Toluene-d8	*	86.7-112		**100.4**	%REC	1	02/19/2018 11:07	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-002
Client Sample ID: GW-16D
Matrix: GROUNDWATER
Collection Date: 02/14/2018 13:10

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	02/23/2018 12:57	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**0.00465**	mg/L	1	02/23/2018 12:57	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 12:57	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 12:57	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 12:57	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 12:57	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**78.0**	%REC	1	02/23/2018 12:57	139166
Surr: Nitrobenzene-d5	*	10.6-152		**88.4**	%REC	1	02/23/2018 12:57	139166
Surr: p-Terphenyl-d14	*	10.6-169		**101.2**	%REC	1	02/23/2018 12:57	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 11:33	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:33	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:33	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:33	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 11:33	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:33	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:33	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:33	139198
trans-1,2-Dichloroethene	NELAP	2.0	J	**0.56**	µg/L	1	02/19/2018 11:33	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:33	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.7**	%REC	1	02/19/2018 11:33	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**103.8**	%REC	1	02/19/2018 11:33	139198
Surr: Dibromofluoromethane	*	84.9-113		**102.4**	%REC	1	02/19/2018 11:33	139198
Surr: Toluene-d8	*	86.7-112		**101.4**	%REC	1	02/19/2018 11:33	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-003
Client Sample ID: GW-16D DUP
Matrix: GROUNDWATER
Collection Date: 02/14/2018 13:10

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	02/23/2018 13:33	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0250		**0.0438**	mg/L	25	02/24/2018 15:09	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 13:33	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 13:33	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 13:33	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 13:33	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**76.6**	%REC	1	02/23/2018 13:33	139166
Surr: Nitrobenzene-d5	*	10.6-152		**82.0**	%REC	1	02/23/2018 13:33	139166
Surr: p-Terphenyl-d14	*	10.6-169		**94.5**	%REC	1	02/23/2018 13:33	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50	J	**0.23**	µg/L	1	02/19/2018 11:58	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:58	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:58	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:58	139198
Methylene chloride	NELAP	0.50	J	**0.22**	µg/L	1	02/19/2018 11:58	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:58	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:58	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 11:58	139198
trans-1,2-Dichloroethene	NELAP	2.0	J	**0.53**	µg/L	1	02/19/2018 11:58	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 11:58	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.6**	%REC	1	02/19/2018 11:58	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**102.1**	%REC	1	02/19/2018 11:58	139198
Surr: Dibromofluoromethane	*	84.9-113		**101.9**	%REC	1	02/19/2018 11:58	139198
Surr: Toluene-d8	*	86.7-112		**101.8**	%REC	1	02/19/2018 11:58	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-004
Client Sample ID: GW-17
Matrix: GROUNDWATER
Collection Date: 02/14/2018 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	02/23/2018 14:10	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**ND**	mg/L	1	02/23/2018 14:10	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 14:10	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 14:10	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 14:10	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:10	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**68.3**	%REC	1	02/23/2018 14:10	139166
Surr: Nitrobenzene-d5	*	10.6-152		**74.0**	%REC	1	02/23/2018 14:10	139166
Surr: p-Terphenyl-d14	*	10.6-169		**82.0**	%REC	1	02/23/2018 14:10	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 13:32	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:32	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:32	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:32	139198
Methylene chloride	NELAP	0.50	J	**0.48**	µg/L	1	02/19/2018 13:32	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:32	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:32	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:32	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:32	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:32	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.4**	%REC	1	02/19/2018 13:32	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.6**	%REC	1	02/19/2018 13:32	139198
Surr: Dibromofluoromethane	*	84.9-113		**102.4**	%REC	1	02/19/2018 13:32	139198
Surr: Toluene-d8	*	86.7-112		**100.0**	%REC	1	02/19/2018 13:32	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-005
Client Sample ID: GW-21
Matrix: GROUNDWATER
Collection Date: 02/14/2018 14:40

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	02/23/2018 14:46	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0020	J	**0.0013**	mg/L	1	02/23/2018 14:46	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 14:46	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 14:46	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 14:46	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 14:46	139166
Pyrene	NELAP	0.00010	J	**0.000041**	mg/L	1	02/23/2018 14:46	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**70.0**	%REC	1	02/23/2018 14:46	139166
Surr: Nitrobenzene-d5	*	10.6-152		**72.8**	%REC	1	02/23/2018 14:46	139166
Surr: p-Terphenyl-d14	*	10.6-169		**80.7**	%REC	1	02/23/2018 14:46	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 13:57	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:57	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:57	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:57	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 13:57	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:57	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:57	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:57	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 13:57	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 13:57	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.1**	%REC	1	02/19/2018 13:57	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**102.7**	%REC	1	02/19/2018 13:57	139198
Surr: Dibromofluoromethane	*	84.9-113		**101.1**	%REC	1	02/19/2018 13:57	139198
Surr: Toluene-d8	*	86.7-112		**102.2**	%REC	1	02/19/2018 13:57	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-006
Client Sample ID: GW-05
Matrix: GROUNDWATER
Collection Date: 02/14/2018 15:35

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	02/23/2018 15:23	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0100		**0.0218**	mg/L	10	02/24/2018 15:46	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 15:23	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 15:23	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 15:23	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:23	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**76.4**	%REC	1	02/23/2018 15:23	139166
Surr: Nitrobenzene-d5	*	10.6-152		**79.6**	%REC	1	02/23/2018 15:23	139166
Surr: p-Terphenyl-d14	*	10.6-169		**97.7**	%REC	1	02/23/2018 15:23	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 14:22	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:22	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:22	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:22	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 14:22	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:22	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:22	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:22	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:22	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:22	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.8**	%REC	1	02/19/2018 14:22	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.7**	%REC	1	02/19/2018 14:22	139198
Surr: Dibromofluoromethane	*	84.9-113		**101.6**	%REC	1	02/19/2018 14:22	139198
Surr: Toluene-d8	*	86.7-112		**102.2**	%REC	1	02/19/2018 14:22	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-007
Client Sample ID: GW-22S
Matrix: GROUNDWATER
Collection Date: 02/14/2018 16:05

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	02/23/2018 15:59	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0020	J	**0.0017**	mg/L	1	02/23/2018 15:59	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 15:59	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 15:59	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 15:59	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 15:59	139166
Pyrene	NELAP	0.00010	J	**0.000035**	mg/L	1	02/23/2018 15:59	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**75.5**	%REC	1	02/23/2018 15:59	139166
Surr: Nitrobenzene-d5	*	10.6-152		**82.3**	%REC	1	02/23/2018 15:59	139166
Surr: p-Terphenyl-d14	*	10.6-169		**93.6**	%REC	1	02/23/2018 15:59	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 14:47	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:47	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:47	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:47	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 14:47	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:47	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:47	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:47	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:47	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:47	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.6**	%REC	1	02/19/2018 14:47	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**103.0**	%REC	1	02/19/2018 14:47	139198
Surr: Dibromofluoromethane	*	84.9-113		**99.9**	%REC	1	02/19/2018 14:47	139198
Surr: Toluene-d8	*	86.7-112		**103.4**	%REC	1	02/19/2018 14:47	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-008
Client Sample ID: GW-22D
Matrix: GROUNDWATER
Collection Date: 02/14/2018 17:30

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	02/24/2018 13:19	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00500		**0.00529**	mg/L	5	02/26/2018 10:19	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Naphthalene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Phenanthrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:19	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**79.9**	%REC	1	02/24/2018 13:19	139166
Surr: Nitrobenzene-d5	*	10.6-152		**85.9**	%REC	1	02/24/2018 13:19	139166
Surr: p-Terphenyl-d14	*	10.6-169		**101.8**	%REC	1	02/24/2018 13:19	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 15:13	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:13	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:13	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:13	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 15:13	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:13	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:13	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:13	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:13	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:13	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.6**	%REC	1	02/19/2018 15:13	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**102.8**	%REC	1	02/19/2018 15:13	139198
Surr: Dibromofluoromethane	*	84.9-113		**100.0**	%REC	1	02/19/2018 15:13	139198
Surr: Toluene-d8	*	86.7-112		**102.9**	%REC	1	02/19/2018 15:13	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-009
Client Sample ID: GW-07
Matrix: GROUNDWATER
Collection Date: 02/14/2018 18:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000144**	mg/L	1	02/24/2018 13:57	139166
Acenaphthylene	NELAP	0.000100		**0.000340**	mg/L	1	02/24/2018 13:57	139166
Anthracene	NELAP	0.000100		**0.00308**	mg/L	1	02/24/2018 13:57	139166
Benzo(a)anthracene	NELAP	0.000100		**0.000301**	mg/L	1	02/24/2018 13:57	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:57	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:57	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:57	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:57	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00500		**0.00692**	mg/L	5	02/26/2018 10:58	139166
Chrysene	NELAP	0.000100		**0.000222**	mg/L	1	02/24/2018 13:57	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:57	139166
Fluoranthene	NELAP	0.000100		**0.00320**	mg/L	1	02/24/2018 13:57	139166
Fluorene	NELAP	0.000100		**0.000595**	mg/L	1	02/24/2018 13:57	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:57	139166
Naphthalene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 13:57	139166
Phenanthrene	NELAP	0.00010	J	**0.000096**	mg/L	1	02/24/2018 13:57	139166
Pyrene	NELAP	0.000100		**0.00466**	mg/L	1	02/24/2018 13:57	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**84.8**	%REC	1	02/24/2018 13:57	139166
Surr: Nitrobenzene-d5	*	10.6-152		**94.9**	%REC	1	02/24/2018 13:57	139166
Surr: p-Terphenyl-d14	*	10.6-169		**110.2**	%REC	1	02/24/2018 13:57	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 15:38	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:38	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:38	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:38	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 15:38	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:38	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:38	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:38	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 15:38	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 15:38	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**98.2**	%REC	1	02/19/2018 15:38	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**102.8**	%REC	1	02/19/2018 15:38	139198
Surr: Dibromofluoromethane	*	84.9-113		**100.1**	%REC	1	02/19/2018 15:38	139198
Surr: Toluene-d8	*	86.7-112		**102.5**	%REC	1	02/19/2018 15:38	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-010
Client Sample ID: GW-18D
Matrix: GROUNDWATER
Collection Date: 02/15/2018 8:15

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	02/23/2018 17:49	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**0.00371**	mg/L	1	02/23/2018 17:49	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 17:49	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 17:49	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 17:49	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 17:49	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**67.7**	%REC	1	02/23/2018 17:49	139166
Surr: Nitrobenzene-d5	*	10.6-152		**74.2**	%REC	1	02/23/2018 17:49	139166
Surr: p-Terphenyl-d14	*	10.6-169		**86.4**	%REC	1	02/23/2018 17:49	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 16:03	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:03	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:03	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:03	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 16:03	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:03	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:03	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:03	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:03	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:03	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**97.3**	%REC	1	02/19/2018 16:03	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**105.6**	%REC	1	02/19/2018 16:03	139198
Surr: Dibromofluoromethane	*	84.9-113		**99.9**	%REC	1	02/19/2018 16:03	139198
Surr: Toluene-d8	*	86.7-112		**101.7**	%REC	1	02/19/2018 16:03	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-012
Client Sample ID: GW-19D
Matrix: GROUNDWATER
Collection Date: 02/15/2018 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	02/23/2018 19:02	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00500		**0.00664**	mg/L	5	02/24/2018 19:25	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 19:02	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 19:02	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 19:02	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:02	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**78.9**	%REC	1	02/23/2018 19:02	139166
Surr: Nitrobenzene-d5	*	10.6-152		**86.0**	%REC	1	02/23/2018 19:02	139166
Surr: p-Terphenyl-d14	*	10.6-169		**92.7**	%REC	1	02/23/2018 19:02	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 16:55	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:55	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:55	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:55	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 16:55	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:55	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:55	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:55	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 16:55	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 16:55	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.2**	%REC	1	02/19/2018 16:55	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.3**	%REC	1	02/19/2018 16:55	139198
Surr: Dibromofluoromethane	*	84.9-113		**98.7**	%REC	1	02/19/2018 16:55	139198
Surr: Toluene-d8	*	86.7-112		**100.6**	%REC	1	02/19/2018 16:55	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-013
Client Sample ID: GW-19S
Matrix: GROUNDWATER
Collection Date: 02/15/2018 10:15

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	02/23/2018 19:39	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0020	J	**0.0013**	mg/L	1	02/23/2018 19:39	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 19:39	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 19:39	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 19:39	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 19:39	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**65.0**	%REC	1	02/23/2018 19:39	139166
Surr: Nitrobenzene-d5	*	10.6-152		**72.1**	%REC	1	02/23/2018 19:39	139166
Surr: p-Terphenyl-d14	*	10.6-169		**80.0**	%REC	1	02/23/2018 19:39	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 17:20	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:20	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:20	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:20	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 17:20	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:20	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:20	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:20	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:20	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:20	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.1**	%REC	1	02/19/2018 17:20	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.1**	%REC	1	02/19/2018 17:20	139198
Surr: Dibromofluoromethane	*	84.9-113		**100.5**	%REC	1	02/19/2018 17:20	139198
Surr: Toluene-d8	*	86.7-112		**102.1**	%REC	1	02/19/2018 17:20	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-014
Client Sample ID: GW-20
Matrix: GROUNDWATER
Collection Date: 02/15/2018 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	02/23/2018 20:15	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 20:15	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 20:15	139166
Benzo(a)anthracene	NELAP	0.00010	J	**0.000058**	mg/L	1	02/23/2018 20:15	139166
Benzo(a)pyrene	NELAP	0.00010	J	**0.000089**	mg/L	1	02/23/2018 20:15	139166
Benzo(b)fluoranthene	NELAP	0.00010	J	**0.000074**	mg/L	1	02/23/2018 20:15	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**0.000138**	mg/L	1	02/23/2018 20:15	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 20:15	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**ND**	mg/L	1	02/23/2018 20:15	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 20:15	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 20:15	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 20:15	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 20:15	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.00010	J	**0.000096**	mg/L	1	02/23/2018 20:15	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/23/2018 20:15	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/23/2018 20:15	139166
Pyrene	NELAP	0.00010	J	**0.000056**	mg/L	1	02/23/2018 20:15	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**72.9**	%REC	1	02/23/2018 20:15	139166
Surr: Nitrobenzene-d5	*	10.6-152		**77.5**	%REC	1	02/23/2018 20:15	139166
Surr: p-Terphenyl-d14	*	10.6-169		**82.5**	%REC	1	02/23/2018 20:15	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 17:46	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:46	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:46	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:46	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 17:46	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:46	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:46	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:46	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 17:46	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 17:46	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.7**	%REC	1	02/19/2018 17:46	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**103.4**	%REC	1	02/19/2018 17:46	139198
Surr: Dibromofluoromethane	*	84.9-113		**99.6**	%REC	1	02/19/2018 17:46	139198
Surr: Toluene-d8	*	86.7-112		**103.1**	%REC	1	02/19/2018 17:46	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-015
Client Sample ID: GW-14
Matrix: GROUNDWATER
Collection Date: 02/15/2018 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	02/24/2018 0:30	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00500		**0.00940**	mg/L	10	02/24/2018 16:23	139166
Chrysene	NELAP	0.00010	J	**0.000031**	mg/L	1	02/24/2018 0:30	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 0:30	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Naphthalene	NELAP	0.00020	J	**0.00013**	mg/L	1	02/24/2018 0:30	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2018 0:30	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 0:30	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**73.7**	%REC	1	02/24/2018 0:30	139166
Surr: Nitrobenzene-d5	*	10.6-152		**77.7**	%REC	1	02/24/2018 0:30	139166
Surr: p-Terphenyl-d14	*	10.6-169		**87.4**	%REC	1	02/24/2018 0:30	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 18:12	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:12	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:12	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:12	139198
Methylene chloride	NELAP	0.50	J	**0.20**	µg/L	1	02/19/2018 18:12	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:12	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:12	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:12	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:12	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:12	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.7**	%REC	1	02/19/2018 18:12	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.3**	%REC	1	02/19/2018 18:12	139198
Surr: Dibromofluoromethane	*	84.9-113		**100.8**	%REC	1	02/19/2018 18:12	139198
Surr: Toluene-d8	*	86.7-112		**101.1**	%REC	1	02/19/2018 18:12	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-016
Client Sample ID: GW-01
Matrix: GROUNDWATER
Collection Date: 02/15/2018 13:15

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	02/24/2018 1:06	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0020	JSR	**0.0017**	mg/L	1	02/24/2018 1:06	139166
Chrysene	NELAP	0.000100	S	**ND**	mg/L	1	02/24/2018 1:06	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 1:06	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 1:06	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2018 1:06	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 1:06	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**70.3**	%REC	1	02/24/2018 1:06	139166
Surr: Nitrobenzene-d5	*	10.6-152		**75.0**	%REC	1	02/24/2018 1:06	139166
Surr: p-Terphenyl-d14	*	10.6-169		**82.0**	%REC	1	02/24/2018 1:06	139166

RPD and matrix spike did not recover within control limits due to sample composition.
Bis(2-ethylhexyl)phthalate results for the MS are estimated due to result being outside the calibration range.

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	02/19/2018 18:37	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:37	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:37	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:37	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 18:37	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:37	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:37	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:37	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 18:37	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 18:37	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.7**	%REC	1	02/19/2018 18:37	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.5**	%REC	1	02/19/2018 18:37	139198
Surr: Dibromofluoromethane	*	84.9-113		**98.8**	%REC	1	02/19/2018 18:37	139198
Surr: Toluene-d8	*	86.7-112		**100.9**	%REC	1	02/19/2018 18:37	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-017
Client Sample ID: GW-01 DUP
Matrix: GROUNDWATER
Collection Date: 02/15/2018 13:15

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	02/24/2018 2:55	139166
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**ND**	mg/L	1	02/24/2018 2:55	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 2:55	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 2:55	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2018 2:55	139166
Pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 2:55	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**71.2**	%REC	1	02/24/2018 2:55	139166
Surr: Nitrobenzene-d5	*	10.6-152		**71.0**	%REC	1	02/24/2018 2:55	139166
Surr: p-Terphenyl-d14	*	10.6-169		**88.5**	%REC	1	02/24/2018 2:55	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 19:03	139198
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 19:03	139198
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 19:03	139198
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 19:03	139198
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 19:03	139198
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 19:03	139198
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 19:03	139198
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 19:03	139198
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 19:03	139198
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 19:03	139198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.3**	%REC	1	02/19/2018 19:03	139198
Surr: 4-Bromofluorobenzene	*	83.9-115		**104.0**	%REC	1	02/19/2018 19:03	139198
Surr: Dibromofluoromethane	*	84.9-113		**99.8**	%REC	1	02/19/2018 19:03	139198
Surr: Toluene-d8	*	86.7-112		**103.0**	%REC	1	02/19/2018 19:03	139198

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-018
Client Sample ID: GW-02
Matrix: GROUNDWATER
Collection Date: 02/15/2018 13:40

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	02/24/2018 3:32	139166
Acenaphthylene	NELAP	0.00010	J	**0.000062**	mg/L	1	02/24/2018 3:32	139166
Anthracene	NELAP	0.000100		**0.000348**	mg/L	1	02/24/2018 3:32	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0020	J	**0.0018**	mg/L	1	02/24/2018 3:32	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 3:32	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 3:32	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 3:32	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2018 3:32	139166
Pyrene	NELAP	0.000100		**0.000155**	mg/L	1	02/24/2018 3:32	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**70.0**	%REC	1	02/24/2018 3:32	139166
Surr: Nitrobenzene-d5	*	10.6-152		**74.2**	%REC	1	02/24/2018 3:32	139166
Surr: p-Terphenyl-d14	*	10.6-169		**83.7**	%REC	1	02/24/2018 3:32	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/20/2018 14:16	139217
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/20/2018 14:16	139217
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/20/2018 14:16	139217
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/20/2018 14:16	139217
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/20/2018 14:16	139217
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/20/2018 14:16	139217
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/20/2018 14:16	139217
Toluene	NELAP	2.00		**ND**	µg/L	1	02/20/2018 14:16	139217
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/20/2018 14:16	139217
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/20/2018 14:16	139217
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.5**	%REC	1	02/20/2018 14:16	139217
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.1**	%REC	1	02/20/2018 14:16	139217
Surr: Dibromofluoromethane	*	84.9-113		**95.4**	%REC	1	02/20/2018 14:16	139217
Surr: Toluene-d8	*	86.7-112		**100.2**	%REC	1	02/20/2018 14:16	139217

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-019
Client Sample ID: GW-03
Matrix: GROUNDWATER
Collection Date: 02/15/2018 14:10

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	02/24/2018 4:08	139166
Acenaphthylene	NELAP	0.00010	J	**0.000072**	mg/L	1	02/24/2018 4:08	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.00500		**0.00892**	mg/L	10	02/24/2018 16:59	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Fluoranthene	NELAP	0.000200		**0.000884**	mg/L	1	02/24/2018 4:08	139166
Fluorene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:08	139166
Naphthalene	NELAP	0.000200		**0.000275**	mg/L	1	02/24/2018 4:08	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2018 4:08	139166
Pyrene	NELAP	0.000100		**0.000340**	mg/L	1	02/24/2018 4:08	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**70.9**	%REC	1	02/24/2018 4:08	139166
Surr: Nitrobenzene-d5	*	10.6-152		**74.4**	%REC	1	02/24/2018 4:08	139166
Surr: p-Terphenyl-d14	*	10.6-169		**88.0**	%REC	1	02/24/2018 4:08	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 14:06	139200
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:06	139200
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 14:06	139200
m,p-Xylenes	NELAP	1.0	J	**0.30**	µg/L	1	02/19/2018 14:06	139200
Methylene chloride	NELAP	0.50	J	**0.33**	µg/L	1	02/19/2018 14:06	139200
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:06	139200
o-Xylene	NELAP	1.0	J	**0.31**	µg/L	1	02/19/2018 14:06	139200
Toluene	NELAP	2.0	J	**0.47**	µg/L	1	02/19/2018 14:06	139200
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 14:06	139200
Xylenes, Total	NELAP	1.0	J	**0.61**	µg/L	1	02/19/2018 14:06	139200
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**93.7**	%REC	1	02/19/2018 14:06	139200
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.5**	%REC	1	02/19/2018 14:06	139200
Surr: Dibromofluoromethane	*	84.9-113		**97.1**	%REC	1	02/19/2018 14:06	139200
Surr: Toluene-d8	*	86.7-112		**102.8**	%REC	1	02/19/2018 14:06	139200

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-020
Client Sample ID: GW-15
Matrix: GROUNDWATER
Collection Date: 02/15/2018 15:20

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	02/24/2018 4:45	139166
Acenaphthylene	NELAP	0.00010	J	**0.000053**	mg/L	1	02/24/2018 4:45	139166
Anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Benzo(g,h,i)perylene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Bis(2-ethylhexyl)phthalate	NELAP	0.0100		**0.0111**	mg/L	10	02/24/2018 17:36	139166
Chrysene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 4:45	139166
Fluorene	NELAP	0.00010	J	**0.000072**	mg/L	1	02/24/2018 4:45	139166
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/24/2018 4:45	139166
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	02/24/2018 4:45	139166
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	02/24/2018 4:45	139166
Pyrene	NELAP	0.00010	J	**0.000066**	mg/L	1	02/24/2018 4:45	139166
Surr: 2-Fluorobiphenyl	*	21.8-124		**71.4**	%REC	1	02/24/2018 4:45	139166
Surr: Nitrobenzene-d5	*	10.6-152		**75.4**	%REC	1	02/24/2018 4:45	139166
Surr: p-Terphenyl-d14	*	10.6-169		**83.5**	%REC	1	02/24/2018 4:45	139166
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		**ND**	µg/L	1	02/19/2018 12:15	139200
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/19/2018 12:15	139200
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 12:15	139200
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/19/2018 12:15	139200
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/19/2018 12:15	139200
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 12:15	139200
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/19/2018 12:15	139200
Toluene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 12:15	139200
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/19/2018 12:15	139200
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/19/2018 12:15	139200
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**92.1**	%REC	1	02/19/2018 12:15	139200
Surr: 4-Bromofluorobenzene	*	83.9-115		**96.7**	%REC	1	02/19/2018 12:15	139200
Surr: Dibromofluoromethane	*	84.9-113		**95.1**	%REC	1	02/19/2018 12:15	139200
Surr: Toluene-d8	*	86.7-112		**95.7**	%REC	1	02/19/2018 12:15	139200

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-021
Client Sample ID: GW-04R
Matrix: GROUNDWATER
Collection Date: 02/15/2018 15:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.00100		**0.00737**	mg/L	10	02/24/2018 18:12	139226
Acenaphthylene	NELAP	0.000100		**0.00178**	mg/L	1	02/23/2018 23:54	139226
Anthracene	NELAP	0.000100		**0.000714**	mg/L	1	02/23/2018 23:54	139226
Benzo(a)anthracene	NELAP	0.000100		**0.000220**	mg/L	1	02/23/2018 23:54	139226
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 23:54	139226
Benzo(b)fluoranthene	NELAP	0.000100		**0.000215**	mg/L	1	02/23/2018 23:54	139226
Benzo(g,h,i)perylene	NELAP	0.00010	J	**0.000071**	mg/L	1	02/23/2018 23:54	139226
Benzo(k)fluoranthene	NELAP	0.00010	J	**0.000060**	mg/L	1	02/23/2018 23:54	139226
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		**ND**	mg/L	1	02/23/2018 23:54	139226
Chrysene	NELAP	0.000100		**0.000732**	mg/L	1	02/23/2018 23:54	139226
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	02/23/2018 23:54	139226
Fluoranthene	NELAP	0.000200		**0.00305**	mg/L	1	02/23/2018 23:54	139226
Fluorene	NELAP	0.00100		**0.0466**	mg/L	10	02/24/2018 18:12	139226
Indeno(1,2,3-cd)pyrene	NELAP	0.00010	J	**0.000080**	mg/L	1	02/23/2018 23:54	139226
Naphthalene	NELAP	0.100		**0.696**	mg/L	1000	02/26/2018 11:35	139226
Phenanthrene	NELAP	0.00100		**0.0247**	mg/L	10	02/24/2018 18:12	139226
Pyrene	NELAP	0.000100		**0.00156**	mg/L	1	02/23/2018 23:54	139226
Surr: 2-Fluorobiphenyl	*	21.8-124		**96.0**	%REC	1	02/23/2018 23:54	139226
Surr: Nitrobenzene-d5	*	10.6-152		**101.8**	%REC	1	02/23/2018 23:54	139226
Surr: p-Terphenyl-d14	*	10.6-169		**80.3**	%REC	1	02/23/2018 23:54	139226

LCSD recovered outside upper control limits for Bis(2-ethylhexyl)phthalate. 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	5.00		**355**	µg/L	10	02/16/2018 17:53	139093
Bromoform	NELAP	20.0		**ND**	µg/L	10	02/16/2018 17:53	139093
Ethylbenzene	NELAP	10.0		**70.9**	µg/L	10	02/16/2018 17:53	139093
m,p-Xylenes	NELAP	10.0		**64.8**	µg/L	10	02/16/2018 17:53	139093
Methylene chloride	NELAP	5.00		**ND**	µg/L	10	02/16/2018 17:53	139093
Naphthalene	NELAP	20.0		**1440**	µg/L	10	02/16/2018 17:53	139093
o-Xylene	NELAP	10.0		**59.7**	µg/L	10	02/16/2018 17:53	139093
Toluene	NELAP	20.0		**140**	µg/L	10	02/16/2018 17:53	139093
trans-1,2-Dichloroethene	NELAP	20.0		**ND**	µg/L	10	02/16/2018 17:53	139093
Xylenes, Total	NELAP	10.0		**124**	µg/L	10	02/16/2018 17:53	139093
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**104.0**	%REC	10	02/16/2018 17:53	139093
Surr: 4-Bromofluorobenzene	*	83.9-115		**95.8**	%REC	10	02/16/2018 17:53	139093
Surr: Dibromofluoromethane	*	84.9-113		**100.2**	%REC	10	02/16/2018 17:53	139093
Surr: Toluene-d8	*	86.7-112		**97.1**	%REC	10	02/16/2018 17:53	139093

Elevated reporting limit due to high levels of target and/or non-target analytes.

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-022
Client Sample ID: Trip Blank 1
Matrix: TRIP BLANK
Collection Date: 02/16/2018 9:20

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	02/16/2018 18:20	139093
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/16/2018 18:20	139093
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:20	139093
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:20	139093
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/16/2018 18:20	139093
Naphthalene	NELAP	2.00		**3.37**	µg/L	1	02/16/2018 18:20	139093
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:20	139093
Toluene	NELAP	2.00		**ND**	µg/L	1	02/16/2018 18:20	139093
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/16/2018 18:20	139093
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:20	139093
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.3**	%REC	1	02/16/2018 18:20	139093
Surr: 4-Bromofluorobenzene	*	83.9-115		**95.6**	%REC	1	02/16/2018 18:20	139093
Surr: Dibromofluoromethane	*	84.9-113		**100.5**	%REC	1	02/16/2018 18:20	139093
Surr: Toluene-d8	*	86.7-112		**97.7**	%REC	1	02/16/2018 18:20	139093

Client: ERM
Work Order: 18020995
Client Project: Taylorville Ameren
Report Date: 28-Feb-18
Lab ID: 18020995-023
Client Sample ID: Trip Blank 2
Matrix: TRIP BLANK
Collection Date: 02/16/2018 9:20

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	02/16/2018 18:47	139093
Bromoform	NELAP	2.00		**ND**	µg/L	1	02/16/2018 18:47	139093
Ethylbenzene	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:47	139093
m,p-Xylenes	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:47	139093
Methylene chloride	NELAP	0.50		**ND**	µg/L	1	02/16/2018 18:47	139093
Naphthalene	NELAP	2.00		**ND**	µg/L	1	02/16/2018 18:47	139093
o-Xylene	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:47	139093
Toluene	NELAP	2.00		**ND**	µg/L	1	02/16/2018 18:47	139093
trans-1,2-Dichloroethene	NELAP	2.00		**ND**	µg/L	1	02/16/2018 18:47	139093
Xylenes, Total	NELAP	1.00		**ND**	µg/L	1	02/16/2018 18:47	139093
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**103.5**	%REC	1	02/16/2018 18:47	139093
Surr: 4-Bromofluorobenzene	*	83.9-115		**95.1**	%REC	1	02/16/2018 18:47	139093
Surr: Dibromofluoromethane	*	84.9-113		**101.0**	%REC	1	02/16/2018 18:47	139093
Surr: Toluene-d8	*	86.7-112		**98.1**	%REC	1	02/16/2018 18:47	139093

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
18020995-001	GW-16S	Groundwater	2	02/14/2018 12:15
18020995-002	GW-16D	Groundwater	2	02/14/2018 13:10
18020995-003	GW-16D DUP	Groundwater	2	02/14/2018 13:10
18020995-004	GW-17	Groundwater	2	02/14/2018 13:30
18020995-005	GW-21	Groundwater	2	02/14/2018 14:40
18020995-006	GW-05	Groundwater	2	02/14/2018 15:35
18020995-007	GW-22S	Groundwater	2	02/14/2018 16:05
18020995-008	GW-22D	Groundwater	2	02/14/2018 17:30
18020995-009	GW-07	Groundwater	2	02/14/2018 18:45
18020995-010	GW-18D	Groundwater	2	02/15/2018 8:15
18020995-011	GW-18S	Groundwater	2	02/15/2018 8:35
18020995-012	GW-19D	Groundwater	2	02/15/2018 9:45
18020995-013	GW-19S	Groundwater	2	02/15/2018 10:15
18020995-014	GW-20	Groundwater	2	02/15/2018 10:45
18020995-015	GW-14	Groundwater	2	02/15/2018 12:50
18020995-016	GW-01	Groundwater	2	02/15/2018 13:15
18020995-017	GW-01 DUP	Groundwater	2	02/15/2018 13:15
18020995-018	GW-02	Groundwater	2	02/15/2018 13:40
18020995-019	GW-03	Groundwater	2	02/15/2018 14:10
18020995-020	GW-15	Groundwater	2	02/15/2018 15:20
18020995-021	GW-04R	Groundwater	2	02/15/2018 15:50
18020995-022	Trip Blank 1	Trip Blank	1	02/16/2018 9:20
18020995-023	Trip Blank 2	Trip Blank	1	02/16/2018 9:20

Client: ERM
Client Project: Taylorville Ameren

Work Order: 18020995
Report Date: 28-Feb-18

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
18020995-001A	GW-16S	02/14/2018 12:15	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/23/2018 12:21
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/24/2018 14:33
18020995-001B	GW-16S	02/14/2018 12:15	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 11:07
18020995-002A	GW-16D	02/14/2018 13:10	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/23/2018 12:57
18020995-002B	GW-16D	02/14/2018 13:10	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 11:33
18020995-003A	GW-16D DUP	02/14/2018 13:10	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/23/2018 13:33
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/24/2018 15:09
18020995-003B	GW-16D DUP	02/14/2018 13:10	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 11:58
18020995-004A	GW-17	02/14/2018 13:30	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/23/2018 14:10
18020995-004B	GW-17	02/14/2018 13:30	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 13:32
18020995-005A	GW-21	02/14/2018 14:40	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/23/2018 14:46
18020995-005B	GW-21	02/14/2018 14:40	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 13:57
18020995-006A	GW-05	02/14/2018 15:35	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/23/2018 15:23
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/24/2018 15:46
18020995-006B	GW-05	02/14/2018 15:35	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 14:22
18020995-007A	GW-22S	02/14/2018 16:05	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/23/2018 15:59
18020995-007B	GW-22S	02/14/2018 16:05	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 14:47
18020995-008A	GW-22D	02/14/2018 17:30	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/24/2018 13:19
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/26/2018 10:19
18020995-008B	GW-22D	02/14/2018 17:30	02/16/2018 9:20		

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 15:13
18020995-009A	GW-07	02/14/2018 18:45	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/24/2018 13:57
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/19/2018 14:21	02/26/2018 10:58
18020995-009B	GW-07	02/14/2018 18:45	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 15:38
18020995-010A	GW-18D	02/15/2018 8:15	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/23/2018 17:49
18020995-010B	GW-18D	02/15/2018 8:15	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 16:03
18020995-011A	GW-18S	02/15/2018 8:35	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/23/2018 18:26
18020995-011B	GW-18S	02/15/2018 8:35	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 16:29
18020995-012A	GW-19D	02/15/2018 9:45	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/23/2018 19:02
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 19:25
18020995-012B	GW-19D	02/15/2018 9:45	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 16:55
18020995-013A	GW-19S	02/15/2018 10:15	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/23/2018 19:39
18020995-013B	GW-19S	02/15/2018 10:15	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 17:20
18020995-014A	GW-20	02/15/2018 10:45	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/23/2018 20:15
18020995-014B	GW-20	02/15/2018 10:45	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 17:46
18020995-015A	GW-14	02/15/2018 12:50	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 0:30
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 16:23
18020995-015B	GW-14	02/15/2018 12:50	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 18:12
18020995-016A	GW-01	02/15/2018 13:15	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 1:06
18020995-016B	GW-01	02/15/2018 13:15	02/16/2018 9:20		

Client: ERM
Client Project: Taylorville Ameren

Work Order: 18020995
Report Date: 28-Feb-18

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 18:37
18020995-017A	GW-01 DUP	02/15/2018 13:15	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 2:55
18020995-017B	GW-01 DUP	02/15/2018 13:15	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 19:03
18020995-018A	GW-02	02/15/2018 13:40	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 3:32
18020995-018B	GW-02	02/15/2018 13:40	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/20/2018 14:16
18020995-019A	GW-03	02/15/2018 14:10	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 4:08
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 16:59
18020995-019B	GW-03	02/15/2018 14:10	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 14:06
18020995-020A	GW-15	02/15/2018 15:20	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 4:45
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/20/2018 10:47	02/24/2018 17:36
18020995-020B	GW-15	02/15/2018 15:20	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/19/2018 12:15
18020995-021A	GW-04R	02/15/2018 15:50	02/16/2018 9:20		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/21/2018 9:14	02/23/2018 23:54
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/21/2018 9:14	02/24/2018 18:12
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			02/21/2018 9:14	02/26/2018 11:35
18020995-021B	GW-04R	02/15/2018 15:50	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/16/2018 17:53
18020995-022A	Trip Blank 1	02/16/2018 9:20	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/16/2018 18:20
18020995-023A	Trip Blank 2	02/16/2018 9:20	02/16/2018 9:20		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				02/16/2018 18:47

Client: ERM

Work Order: 18020995

Client Project: Taylorville Ameren

Report Date: 28-Feb-18

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

Batch 139166 **SampType:** MBLK Units **mg/L**

SampID: MBLK-139166

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						02/23/2018
Acenaphthylene	0.000100		**ND**						02/23/2018
Anthracene	0.000100		**ND**						02/23/2018
Benzo(a)anthracene	0.000100		**ND**						02/23/2018
Benzo(a)pyrene	0.000100		**ND**						02/23/2018
Benzo(b)fluoranthene	0.000100		**ND**						02/23/2018
Benzo(g,h,i)perylene	0.000100		**ND**						02/23/2018
Benzo(k)fluoranthene	0.000100		**ND**						02/23/2018
Bis(2-ethylhexyl)phthalate	0.00200		**ND**						02/23/2018
Chrysene	0.000100		**ND**						02/23/2018
Dibenzo(a,h)anthracene	0.000100		**ND**						02/23/2018
Fluoranthene	0.000200		**ND**						02/23/2018
Fluorene	0.000100		**ND**						02/23/2018
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						02/23/2018
Naphthalene	0.000200		**ND**						02/23/2018
Phenanthrene	0.000400		**ND**						02/23/2018
Pyrene	0.000100		**ND**						02/23/2018
Surr: 2-Fluorobiphenyl			**0.000539**	).00100(		53.9	42.6	114	02/23/2018
Surr: Nitrobenzene-d5			**0.000718**	).00100(		71.8	35.6	125	02/23/2018
Surr: p-Terphenyl-d14			**0.000891**	).00100(		89.1	48.7	138	02/23/2018

Batch 139166 **SampType:** LCS Units **mg/L**

SampID: LCS-139166

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00169**	).00200(	0	84.6	48.2	115	02/23/2018
Acenaphthylene	0.000100		**0.00163**	).00200(	0	81.5	47	114	02/23/2018
Anthracene	0.000100		**0.00178**	).00200(	0	89.1	51.1	112	02/23/2018
Benzo(a)anthracene	0.000100		**0.00193**	).00200(	0	96.6	36.5	132	02/23/2018
Benzo(a)pyrene	0.000100		**0.00197**	).00200(	0	98.4	41.8	130	02/23/2018
Benzo(b)fluoranthene	0.000100		**0.00205**	).00200(	0	102.7	39.5	130	02/23/2018
Benzo(g,h,i)perylene	0.000100		**0.00219**	).00200(	0	109.7	41.4	138	02/23/2018
Benzo(k)fluoranthene	0.000100		**0.00200**	).00200(	0	100.2	41.7	135	02/23/2018
Bis(2-ethylhexyl)phthalate	0.00200		**0.00231**	).00200(	0	115.5	68.5	152	02/23/2018
Chrysene	0.000100		**0.00149**	).00200(	0	74.5	28.7	143	02/23/2018
Dibenzo(a,h)anthracene	0.000100		**0.00171**	).00200(	0	85.6	36.5	139	02/23/2018
Fluoranthene	0.000200		**0.00200**	).00200(	0	99.8	49.1	130	02/23/2018
Fluorene	0.000100		**0.00186**	).00200(	0	93.2	47.5	123	02/23/2018
Indeno(1,2,3-cd)pyrene	0.000100		**0.00220**	).00200(	0	110.2	41.4	138	02/23/2018
Naphthalene	0.000200		**0.00150**	).00200(	0	74.9	50.6	105	02/23/2018
Phenanthrene	0.000400		**0.00199**	).00200(	0	99.3	48.9	125	02/23/2018
Pyrene	0.000100		**0.00199**	).00200(	0	99.4	52.8	126	02/23/2018
Surr: 2-Fluorobiphenyl			**0.000602**	).00100(		60.2	42.6	114	02/23/2018
Surr: Nitrobenzene-d5			**0.000811**	).00100(		81.1	35.6	125	02/23/2018
Surr: p-Terphenyl-d14			**0.00108**	).00100(		108.2	48.7	138	02/23/2018

Client: ERM

Work Order: 18020995

Client Project: Taylorville Ameren

Report Date: 28-Feb-18

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

Batch 139166 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-139166

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00180**	0.00200	0	90.2	0.001692	6.38	02/23/2018
Acenaphthylene	0.000100		**0.00175**	0.00200	0	87.5	0.001630	7.11	02/23/2018
Anthracene	0.000100		**0.00176**	0.00200	0	88.1	0.001782	1.12	02/23/2018
Benzo(a)anthracene	0.000100		**0.00197**	0.00200	0	98.3	0.001932	1.74	02/23/2018
Benzo(a)pyrene	0.000100		**0.00209**	0.00200	0	104.6	0.001968	6.07	02/23/2018
Benzo(b)fluoranthene	0.000100		**0.00208**	0.00200	0	104.2	0.002053	1.49	02/23/2018
Benzo(g,h,i)perylene	0.000100		**0.00239**	0.00200	0	119.5	0.002195	8.52	02/23/2018
Benzo(k)fluoranthene	0.000100		**0.00211**	0.00200	0	105.4	0.002005	5.04	02/23/2018
Bis(2-ethylhexyl)phthalate	0.00200		**0.00228**	0.00200	0	114.0	0.002310	1.33	02/23/2018
Chrysene	0.000100		**0.00146**	0.00200	0	73.2	0.001489	1.74	02/23/2018
Dibenzo(a,h)anthracene	0.000100		**0.00178**	0.00200	0	88.8	0.001712	3.73	02/23/2018
Fluoranthene	0.000200		**0.00209**	0.00200	0	104.7	0.001996	4.75	02/23/2018
Fluorene	0.000100		**0.00188**	0.00200	0	94.2	0.001863	1.12	02/23/2018
Indeno(1,2,3-cd)pyrene	0.000100		**0.00236**	0.00200	0	117.8	0.002204	6.69	02/23/2018
Naphthalene	0.000200		**0.00159**	0.00200	0	79.3	0.001498	5.75	02/23/2018
Phenanthrene	0.000400		**0.00194**	0.00200	0	97.2	0.001986	2.18	02/23/2018
Pyrene	0.000100		**0.00221**	0.00200	0	110.5	0.001988	10.55	02/23/2018
Surr: 2-Fluorobiphenyl			**0.000585**	0.00100		58.5			02/23/2018
Surr: Nitrobenzene-d5			**0.000779**	0.00100		77.9			02/23/2018
Surr: p-Terphenyl-d14			**0.00106**	0.00100		105.8			02/23/2018

Batch 139166 **SampType:** MS Units **mg/L**

SampID: 18020995-016AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00172**	0.00200	0	86.2	40.5	121	02/24/2018
Acenaphthylene	0.000100		**0.00160**	0.00200	0	80.1	50.9	132	02/24/2018
Anthracene	0.000100		**0.00157**	0.00200	0	78.6	62.1	120	02/24/2018
Benzo(a)anthracene	0.000100		**0.00171**	0.00200	0	85.4	67.8	119	02/24/2018
Benzo(a)pyrene	0.000100		**0.00185**	0.00200	0	92.7	73.8	124	02/24/2018
Benzo(b)fluoranthene	0.000100		**0.00183**	0.00200	0	91.5	73.3	119	02/24/2018
Benzo(g,h,i)perylene	0.000100		**0.00212**	0.00200	0	105.9	56.3	139	02/24/2018
Benzo(k)fluoranthene	0.000100		**0.00187**	0.00200	0	93.4	69.5	115	02/24/2018
Bis(2-ethylhexyl)phthalate	0.00200	SE	**0.0197**	0.00200	0.001721	899.6	33.3	221	02/24/2018
Chrysene	0.000100	S	**0.00121**	0.00200	0	60.7	69	112	02/24/2018
Dibenzo(a,h)anthracene	0.000100		**0.00159**	0.00200	0	79.3	66.1	135	02/24/2018
Fluoranthene	0.000200		**0.00196**	0.00200	0	98.0	69.4	117	02/24/2018
Fluorene	0.000100		**0.00178**	0.00200	0	89.2	54.3	116	02/24/2018
Indeno(1,2,3-cd)pyrene	0.000100		**0.00204**	0.00200	0	101.8	62.5	136	02/24/2018
Naphthalene	0.000200		**0.00162**	0.00200	0	80.9	34.6	129	02/24/2018
Phenanthrene	0.000400		**0.00184**	0.00200	0	92.0	62.4	108	02/24/2018
Pyrene	0.000100		**0.00190**	0.00200	0	95.0	64.2	118	02/24/2018
Surr: 2-Fluorobiphenyl			**0.000676**	0.00100		67.6	21.8	124	02/24/2018
Surr: Nitrobenzene-d5			**0.000758**	0.00100		75.8	10.6	152	02/24/2018
Surr: p-Terphenyl-d14			**0.000838**	0.00100		83.8	10.6	169	02/24/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139166 **SampType:** MSD Units **mg/L** RPD Limit **40**

SampID: 18020995-016AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00174**	0.00200	0	86.8	0.001725	0.66	02/24/2018
Acenaphthylene	0.000100		**0.00171**	0.00200	0	85.4	0.001602	6.40	02/24/2018
Anthracene	0.000100		**0.00167**	0.00200	0	83.5	0.001572	6.05	02/24/2018
Benzo(a)anthracene	0.000100		**0.00176**	0.00200	0	87.9	0.001707	2.94	02/24/2018
Benzo(a)pyrene	0.000100		**0.00180**	0.00200	0	90.2	0.001853	2.68	02/24/2018
Benzo(b)fluoranthene	0.000100		**0.00181**	0.00200	0	90.5	0.001830	1.07	02/24/2018
Benzo(g,h,i)perylene	0.000100		**0.00211**	0.00200	0	105.4	0.002118	0.46	02/24/2018
Benzo(k)fluoranthene	0.000100		**0.00180**	0.00200	0	90.2	0.001869	3.55	02/24/2018
Bis(2-ethylhexyl)phthalate	0.00200	R	**0.00241**	0.00200	0.001721	34.2	0.01971	156.50	02/24/2018
Chrysene	0.000100	S	**0.00132**	0.00200	0	66.2	0.001214	8.73	02/24/2018
Dibenzo(a,h)anthracene	0.000100		**0.00159**	0.00200	0	79.6	0.001586	0.40	02/24/2018
Fluoranthene	0.000200		**0.00182**	0.00200	0	91.1	0.001959	7.23	02/24/2018
Fluorene	0.000100		**0.00178**	0.00200	0	88.9	0.001784	0.38	02/24/2018
Indeno(1,2,3-cd)pyrene	0.000100		**0.00216**	0.00200	0	107.9	0.002036	5.85	02/24/2018
Naphthalene	0.000200		**0.00169**	0.00200	0	84.4	0.001618	4.20	02/24/2018
Phenanthrene	0.000400		**0.00185**	0.00200	0	92.3	0.001840	0.31	02/24/2018
Pyrene	0.000100		**0.00200**	0.00200	0	100.2	0.001900	5.26	02/24/2018
Surr: 2-Fluorobiphenyl			**0.000707**	0.00100		70.7			02/24/2018
Surr: Nitrobenzene-d5			**0.000756**	0.00100		75.6			02/24/2018
Surr: p-Terphenyl-d14			**0.000870**	0.00100		87.0			02/24/2018

Batch 139226 **SampType:** MBLK Units **mg/L**

SampID: MBLK-139226

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						02/23/2018
Acenaphthylene	0.000100		**ND**						02/23/2018
Anthracene	0.000100		**ND**						02/23/2018
Benzo(a)anthracene	0.000100		**ND**						02/23/2018
Benzo(a)pyrene	0.000100		**ND**						02/23/2018
Benzo(b)fluoranthene	0.000100		**ND**						02/23/2018
Benzo(g,h,i)perylene	0.000100		**ND**						02/23/2018
Benzo(k)fluoranthene	0.000100		**ND**						02/23/2018
Bis(2-ethylhexyl)phthalate	0.00200		**ND**						02/23/2018
Chrysene	0.000100		**ND**						02/23/2018
Dibenzo(a,h)anthracene	0.000100		**ND**						02/23/2018
Fluoranthene	0.000200		**ND**						02/23/2018
Fluorene	0.000100		**ND**						02/23/2018
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						02/23/2018
Naphthalene	0.000200		**ND**						02/23/2018
Phenanthrene	0.000400		**ND**						02/23/2018
Pyrene	0.000100		**ND**						02/23/2018
Surr: 2-Fluorobiphenyl			**0.000792**	0.00100		79.2	42.6	114	02/23/2018
Surr: Nitrobenzene-d5			**0.000846**	0.00100		84.6	35.6	125	02/23/2018
Surr: p-Terphenyl-d14			**0.000915**	0.00100		91.5	48.7	138	02/23/2018

Client: ERM

Work Order: 18020995

Client Project: Taylorville Ameren

Report Date: 28-Feb-18

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

Batch 139226 **SampType:** LCS Units **mg/L**

SampID: LCS-139226

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00179**	0.00200	0	89.5	48.2	115	02/23/2018
Acenaphthylene	0.000100		**0.00167**	0.00200	0	83.3	47	114	02/23/2018
Anthracene	0.000100		**0.00173**	0.00200	0	86.6	51.1	112	02/23/2018
Benzo(a)anthracene	0.000100		**0.00179**	0.00200	0	89.6	36.5	132	02/23/2018
Benzo(a)pyrene	0.000100		**0.00182**	0.00200	0	91.2	41.8	130	02/23/2018
Benzo(b)fluoranthene	0.000100		**0.00176**	0.00200	0	88.1	39.5	130	02/23/2018
Benzo(g,h,i)perylene	0.000100		**0.00209**	0.00200	0	104.7	41.4	138	02/23/2018
Benzo(k)fluoranthene	0.000100		**0.00187**	0.00200	0	93.6	41.7	135	02/23/2018
Bis(2-ethylhexyl)phthalate	0.00200		**0.00221**	0.00200	0	110.3	68.5	152	02/23/2018
Chrysene	0.000100		**0.00134**	0.00200	0	67.2	28.7	143	02/23/2018
Dibenzo(a,h)anthracene	0.000100		**0.00169**	0.00200	0	84.5	36.5	139	02/23/2018
Fluoranthene	0.000200		**0.00179**	0.00200	0	89.5	49.1	130	02/23/2018
Fluorene	0.000100		**0.00182**	0.00200	0	90.8	47.5	123	02/23/2018
Indeno(1,2,3-cd)pyrene	0.000100		**0.00199**	0.00200	0	99.3	41.4	138	02/23/2018
Naphthalene	0.000200		**0.00172**	0.00200	0	86.2	50.6	105	02/23/2018
Phenanthrene	0.000400		**0.00195**	0.00200	0	97.3	48.9	125	02/23/2018
Pyrene	0.000100		**0.00188**	0.00200	0	93.8	52.8	126	02/23/2018
Surr: 2-Fluorobiphenyl			**0.000747**	0.00100		74.7	42.6	114	02/23/2018
Surr: Nitrobenzene-d5			**0.000780**	0.00100		78.0	35.6	125	02/23/2018
Surr: p-Terphenyl-d14			**0.000854**	0.00100		85.4	48.7	138	02/23/2018

Batch 139226 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-139226

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00178**	0.00200	0	89.0	0.001790	0.55	02/23/2018
Acenaphthylene	0.000100		**0.00167**	0.00200	0	83.4	0.001665	0.14	02/23/2018
Anthracene	0.000100		**0.00174**	0.00200	0	86.9	0.001731	0.45	02/23/2018
Benzo(a)anthracene	0.000100		**0.00181**	0.00200	0	90.6	0.001792	1.10	02/23/2018
Benzo(a)pyrene	0.000100		**0.00185**	0.00200	0	92.6	0.001824	1.57	02/23/2018
Benzo(b)fluoranthene	0.000100		**0.00185**	0.00200	0	92.7	0.001762	5.15	02/23/2018
Benzo(g,h,i)perylene	0.000100		**0.00213**	0.00200	0	106.7	0.002094	1.93	02/23/2018
Benzo(k)fluoranthene	0.000100		**0.00183**	0.00200	0	91.3	0.001872	2.44	02/23/2018
Bis(2-ethylhexyl)phthalate	0.00200	SR	**0.00332**	0.00200	0	166.0	0.002205	40.34	02/23/2018
Chrysene	0.000100		**0.00130**	0.00200	0	65.2	0.001343	2.96	02/23/2018
Dibenzo(a,h)anthracene	0.000100		**0.00177**	0.00200	0	88.7	0.001690	4.90	02/23/2018
Fluoranthene	0.000200		**0.00182**	0.00200	0	91.1	0.001790	1.75	02/23/2018
Fluorene	0.000100		**0.00184**	0.00200	0	91.8	0.001815	1.19	02/23/2018
Indeno(1,2,3-cd)pyrene	0.000100		**0.00197**	0.00200	0	98.6	0.001986	0.70	02/23/2018
Naphthalene	0.000200		**0.00176**	0.00200	0	87.8	0.001723	1.82	02/23/2018
Phenanthrene	0.000400		**0.00198**	0.00200	0	99.1	0.001946	1.80	02/23/2018
Pyrene	0.000100		**0.00193**	0.00200	0	96.4	0.001875	2.83	02/23/2018
Surr: 2-Fluorobiphenyl			**0.000700**	0.00100		70.0			02/23/2018
Surr: Nitrobenzene-d5			**0.000968**	0.00100		96.8			02/23/2018
Surr: p-Terphenyl-d14			**0.000866**	0.00100		86.6			02/23/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139093 **SampType:** MBLK Units µg/L

SampID: MBLK-R180216A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		ND						02/16/2018
Bromoform	5.0		ND						02/16/2018
Ethylbenzene	5.0		ND						02/16/2018
m,p-Xylenes	5.0		ND						02/16/2018
Methylene chloride	5.0		ND						02/16/2018
Naphthalene	10.0		ND						02/16/2018
o-Xylene	5.0		ND						02/16/2018
Toluene	5.0		ND						02/16/2018
trans-1,2-Dichloroethene	5.0		ND						02/16/2018
Xylenes, Total	5.0		ND						02/16/2018
Surr: 1,2-Dichloroethane-d4			50.9	50.00		101.7	79.6	118	02/16/2018
Surr: 4-Bromofluorobenzene			49.3	50.00		98.7	83.9	115	02/16/2018
Surr: Dibromofluoromethane			50.6	50.00		101.2	84.9	113	02/16/2018
Surr: Toluene-d8			48.6	50.00		97.3	86.7	112	02/16/2018

Batch 139093 **SampType:** LCSD Units µg/L RPD Limit **40**

SampID: LCSD-R180216A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	2.0		49.9	50.00	0	99.8	47.24	5.50	02/16/2018
Bromoform	5.0		56.0	50.00	0	112.0	51.32	8.74	02/16/2018
Ethylbenzene	5.0		50.3	50.00	0	100.5	46.81	7.13	02/16/2018
m,p-Xylenes	5.0		101	100.0	0	101.3	93.85	7.65	02/16/2018
Methylene chloride	5.0		54.5	50.00	0	109.1	51.04	6.61	02/16/2018
Naphthalene	10.0		49.9	50.00	0	99.9	46.18	7.80	02/16/2018
o-Xylene	5.0		48.8	50.00	0	97.6	45.65	6.71	02/16/2018
Toluene	5.0		48.3	50.00	0	96.7	45.14	6.83	02/16/2018
trans-1,2-Dichloroethene	5.0		51.7	50.00	0	103.5	48.27	6.92	02/16/2018
Xylenes, Total	5.0		150	150.0	0	100.1	139.5	7.35	02/16/2018
Surr: 1,2-Dichloroethane-d4			50.8	50.00		101.5			02/16/2018
Surr: 4-Bromofluorobenzene			49.0	50.00		98.0			02/16/2018
Surr: Dibromofluoromethane			50.8	50.00		101.6			02/16/2018
Surr: Toluene-d8			49.3	50.00		98.6			02/16/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139093 **SampType:** LCS Units µg/L

SampID: LCS-R180216A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		**47.2**	50.00	0	94.5	77.8	120	02/16/2018
Bromoform	5.0		**51.3**	50.00	0	102.6	74.6	126	02/16/2018
Ethylbenzene	5.0		**46.8**	50.00	0	93.6	81.8	117	02/16/2018
m,p-Xylenes	5.0		**93.8**	100.0	0	93.8	82.7	118	02/16/2018
Methylene chloride	5.0		**51.0**	50.00	0	102.1	71	114	02/16/2018
Naphthalene	10.0		**46.2**	50.00	0	92.4	74.1	125	02/16/2018
o-Xylene	5.0		**45.6**	50.00	0	91.3	80.1	118	02/16/2018
Toluene	5.0		**45.1**	50.00	0	90.3	82.2	113	02/16/2018
trans-1,2-Dichloroethene	5.0		**48.3**	50.00	0	96.5	77.5	121	02/16/2018
Xylenes, Total	5.0		**140**	150.0	0	93.0	82.7	118	02/16/2018
Surr: 1,2-Dichloroethane-d4			**50.9**	50.00		101.7	79.6	118	02/16/2018
Surr: 4-Bromofluorobenzene			**48.6**	50.00		97.2	83.9	115	02/16/2018
Surr: Dibromofluoromethane			**51.6**	50.00		103.1	84.9	113	02/16/2018
Surr: Toluene-d8			**48.8**	50.00		97.6	86.7	112	02/16/2018

Batch 139093 **SampType:** MS Units µg/L

SampID: 18020995-021BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	5.00		**826**	500.0	355.2	94.1	62.5	121	02/16/2018
Ethylbenzene	10.0		**541**	500.0	70.90	93.9	74.4	130	02/16/2018
m,p-Xylenes	10.0		**523**	500.0	64.80	91.6	70.5	126	02/16/2018
o-Xylene	10.0		**509**	500.0	59.70	89.9	71.2	124	02/16/2018
Toluene	20.0		**572**	500.0	140.4	86.2	69.5	118	02/16/2018
Xylenes, Total	10.0		**1030**	1000	124.5	90.8	71.1	125	02/16/2018
Surr: 1,2-Dichloroethane-d4			**515**	500.0		103.0	74.7	129	02/16/2018
Surr: 4-Bromofluorobenzene			**494**	500.0		98.9	86	119	02/16/2018
Surr: Dibromofluoromethane			**501**	500.0		100.2	81.7	123	02/16/2018
Surr: Toluene-d8			**479**	500.0		95.8	84.3	114	02/16/2018

Batch 139093 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 18020995-021BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	5.00		**804**	500.0	355.2	89.9	825.6	2.59	02/16/2018
Ethylbenzene	10.0		**531**	500.0	70.90	92.0	540.6	1.81	02/16/2018
m,p-Xylenes	10.0		**515**	500.0	64.80	90.0	522.9	1.58	02/16/2018
o-Xylene	10.0		**501**	500.0	59.70	88.2	509.1	1.66	02/16/2018
Toluene	20.0		**562**	500.0	140.4	84.4	571.6	1.64	02/16/2018
Xylenes, Total	10.0		**1020**	1000	124.5	89.1	1032	1.62	02/16/2018
Surr: 1,2-Dichloroethane-d4			**522**	500.0		104.4			02/16/2018
Surr: 4-Bromofluorobenzene			**486**	500.0		97.1			02/16/2018
Surr: Dibromofluoromethane			**506**	500.0		101.2			02/16/2018
Surr: Toluene-d8			**487**	500.0		97.4			02/16/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139198 **SampType:** MBLK Units µg/L

SampID: MBLK-T180219A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		ND						02/19/2018
Bromoform	5.0		ND						02/19/2018
Ethylbenzene	5.0		ND						02/19/2018
m,p-Xylenes	5.0		ND						02/19/2018
Methylene chloride	5.0		ND						02/19/2018
Naphthalene	10.0		ND						02/19/2018
o-Xylene	5.0		ND						02/19/2018
Toluene	5.0		ND						02/19/2018
trans-1,2-Dichloroethene	5.0		ND						02/19/2018
Xylenes, Total	5.0		ND						02/19/2018
Surr: 1,2-Dichloroethane-d4			49.0	50.00		98.1	79.6	118	02/19/2018
Surr: 4-Bromofluorobenzene			51.7	50.00		103.5	83.9	115	02/19/2018
Surr: Dibromofluoromethane			50.6	50.00		101.1	84.9	113	02/19/2018
Surr: Toluene-d8			50.6	50.00		101.3	86.7	112	02/19/2018

Batch 139198 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-T180219A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	2.0		45.3	50.00	0	90.6	45.71	0.90	02/19/2018
Bromoform	5.0		53.2	50.00	0	106.4	53.69	0.95	02/19/2018
Ethylbenzene	5.0		49.6	50.00	0	99.1	50.81	2.51	02/19/2018
m,p-Xylenes	5.0		102	100.0	0	101.9	102.7	0.76	02/19/2018
Methylene chloride	5.0		42.1	50.00	0	84.1	42.59	1.23	02/19/2018
Naphthalene	10.0		56.0	50.00	0	112.0	56.21	0.36	02/19/2018
o-Xylene	5.0		49.2	50.00	0	98.4	50.33	2.23	02/19/2018
Toluene	5.0		49.6	50.00	0	99.2	49.72	0.22	02/19/2018
trans-1,2-Dichloroethene	5.0		42.7	50.00	0	85.3	43.08	0.98	02/19/2018
Xylenes, Total	5.0		151	150.0	0	100.8	153.0	1.24	02/19/2018
Surr: 1,2-Dichloroethane-d4			49.7	50.00		99.4			02/19/2018
Surr: 4-Bromofluorobenzene			48.6	50.00		97.1			02/19/2018
Surr: Dibromofluoromethane			50.7	50.00		101.4			02/19/2018
Surr: Toluene-d8			51.0	50.00		101.9			02/19/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139198 **SampType:** LCS Units µg/L

SampID: LCS-T180219A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		**45.7**	50.00	0	91.4	77.8	120	02/19/2018
Bromoform	5.0		**53.7**	50.00	0	107.4	74.6	126	02/19/2018
Ethylbenzene	5.0		**50.8**	50.00	0	101.6	81.8	117	02/19/2018
m,p-Xylenes	5.0		**103**	100.0	0	102.7	82.7	118	02/19/2018
Methylene chloride	5.0		**42.6**	50.00	0	85.2	71	114	02/19/2018
Naphthalene	10.0		**56.2**	50.00	0	112.4	74.1	125	02/19/2018
o-Xylene	5.0		**50.3**	50.00	0	100.7	80.1	118	02/19/2018
Toluene	5.0		**49.7**	50.00	0	99.4	82.2	113	02/19/2018
trans-1,2-Dichloroethene	5.0		**43.1**	50.00	0	86.2	77.5	121	02/19/2018
Xylenes, Total	5.0		**153**	150.0	0	102.0	82.7	118	02/19/2018
Surr: 1,2-Dichloroethane-d4			**48.7**	50.00		97.4	79.6	118	02/19/2018
Surr: 4-Bromofluorobenzene			**48.7**	50.00		97.3	83.9	115	02/19/2018
Surr: Dibromofluoromethane			**51.4**	50.00		102.8	84.9	113	02/19/2018
Surr: Toluene-d8			**51.0**	50.00		102.1	86.7	112	02/19/2018

Batch 139198 **SampType:** MS Units µg/L

SampID: 18020995-016BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.50		**45.0**	50.00	0	90.1	62.5	121	02/19/2018
Ethylbenzene	1.00		**46.9**	50.00	0	93.8	74.4	130	02/19/2018
m,p-Xylenes	1.00		**46.4**	50.00	0	92.8	70.5	126	02/19/2018
o-Xylene	1.00		**46.6**	50.00	0	93.1	71.2	124	02/19/2018
Toluene	2.00		**46.3**	50.00	0	92.5	69.5	118	02/19/2018
Xylenes, Total	1.00		**93.0**	100.0	0	93.0	71.1	125	02/19/2018
Surr: 1,2-Dichloroethane-d4			**50.5**	50.00		101.1	74.7	129	02/19/2018
Surr: 4-Bromofluorobenzene			**51.6**	50.00		103.2	86	119	02/19/2018
Surr: Dibromofluoromethane			**49.2**	50.00		98.5	81.7	123	02/19/2018
Surr: Toluene-d8			**50.7**	50.00		101.3	84.3	114	02/19/2018

Batch 139198 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 18020995-016BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.50		**44.5**	50.00	0	89.0	45.04	1.16	02/19/2018
Ethylbenzene	1.00		**45.6**	50.00	0	91.2	46.88	2.72	02/19/2018
m,p-Xylenes	1.00		**45.0**	50.00	0	90.0	46.40	3.02	02/19/2018
o-Xylene	1.00		**45.6**	50.00	0	91.2	46.55	2.06	02/19/2018
Toluene	2.00		**44.5**	50.00	0	89.1	46.27	3.81	02/19/2018
Xylenes, Total	1.00		**90.6**	100.0	0	90.6	92.95	2.54	02/19/2018
Surr: 1,2-Dichloroethane-d4			**50.5**	50.00		100.9			02/19/2018
Surr: 4-Bromofluorobenzene			**51.1**	50.00		102.2			02/19/2018
Surr: Dibromofluoromethane			**48.8**	50.00		97.5			02/19/2018
Surr: Toluene-d8			**50.1**	50.00		100.3			02/19/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139200 **SampType:** MBLK Units µg/L

SampID: MBLK-N180219A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		ND						02/19/2018
Bromoform	5.0		ND						02/19/2018
Ethylbenzene	5.0		ND						02/19/2018
m,p-Xylenes	5.0		ND						02/19/2018
Methylene chloride	5.0		ND						02/19/2018
Naphthalene	10.0		ND						02/19/2018
o-Xylene	5.0		ND						02/19/2018
Toluene	5.0		ND						02/19/2018
trans-1,2-Dichloroethene	5.0		ND						02/19/2018
Xylenes, Total	5.0		ND						02/19/2018
Surr: 1,2-Dichloroethane-d4			46.8	50.00		93.5	79.6	118	02/19/2018
Surr: 4-Bromofluorobenzene			48.7	50.00		97.3	83.9	115	02/19/2018
Surr: Dibromofluoromethane			48.1	50.00		96.1	84.9	113	02/19/2018
Surr: Toluene-d8			48.2	50.00		96.5	86.7	112	02/19/2018

Batch 139200 **SampType:** LCSD Units µg/L RPD Limit **40**

SampID: LCSD-N180219A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	2.0		49.9	50.00	0	99.8	47.61	4.74	02/19/2018
Bromoform	5.0		55.2	50.00	0	110.5	52.45	5.20	02/19/2018
Ethylbenzene	5.0		50.6	50.00	0	101.2	47.06	7.23	02/19/2018
m,p-Xylenes	5.0		99.9	100.0	0	99.9	97.36	2.59	02/19/2018
Methylene chloride	5.0		47.4	50.00	0	94.8	43.31	9.06	02/19/2018
Naphthalene	10.0		53.2	50.00	0	106.5	49.57	7.16	02/19/2018
o-Xylene	5.0		50.6	50.00	0	101.2	46.84	7.74	02/19/2018
Toluene	5.0		51.1	50.00	0	102.3	47.95	6.42	02/19/2018
trans-1,2-Dichloroethene	5.0		47.6	50.00	0	95.1	43.92	7.94	02/19/2018
Xylenes, Total	5.0		151	150.0	0	100.3	144.2	4.29	02/19/2018
Surr: 1,2-Dichloroethane-d4			45.8	50.00		91.6			02/19/2018
Surr: 4-Bromofluorobenzene			48.6	50.00		97.3			02/19/2018
Surr: Dibromofluoromethane			49.1	50.00		98.2			02/19/2018
Surr: Toluene-d8			48.8	50.00		97.5			02/19/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139200 **SampType:** LCS Units µg/L

SampID: LCS-N180219A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		**47.6**	50.00	0	95.2	77.8	120	02/19/2018
Bromoform	5.0		**52.4**	50.00	0	104.9	74.6	126	02/19/2018
Ethylbenzene	5.0		**47.1**	50.00	0	94.1	81.8	117	02/19/2018
m,p-Xylenes	5.0		**97.4**	100.0	0	97.4	82.7	118	02/19/2018
Methylene chloride	5.0		**43.3**	50.00	0	86.6	71	114	02/19/2018
Naphthalene	10.0		**49.6**	50.00	0	99.1	74.1	125	02/19/2018
o-Xylene	5.0		**46.8**	50.00	0	93.7	80.1	118	02/19/2018
Toluene	5.0		**48.0**	50.00	0	95.9	82.2	113	02/19/2018
trans-1,2-Dichloroethene	5.0		**43.9**	50.00	0	87.8	77.5	121	02/19/2018
Xylenes, Total	5.0		**144**	150.0	0	96.1	82.7	118	02/19/2018
Surr: 1,2-Dichloroethane-d4			**45.9**	50.00		91.9	79.6	118	02/19/2018
Surr: 4-Bromofluorobenzene			**47.6**	50.00		95.3	83.9	115	02/19/2018
Surr: Dibromofluoromethane			**48.3**	50.00		96.6	84.9	113	02/19/2018
Surr: Toluene-d8			**49.8**	50.00		99.6	86.7	112	02/19/2018

Batch 139217 **SampType:** MBLK Units µg/L

SampID: MBLK-T180220A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		**ND**						02/20/2018
Bromoform	5.0		**ND**						02/20/2018
Ethylbenzene	5.0		**ND**						02/20/2018
m,p-Xylenes	5.0		**ND**						02/20/2018
Methylene chloride	5.0		**ND**						02/20/2018
Naphthalene	10.0		**ND**						02/20/2018
o-Xylene	5.0		**ND**						02/20/2018
Toluene	5.0		**ND**						02/20/2018
trans-1,2-Dichloroethene	5.0		**ND**						02/20/2018
Xylenes, Total	5.0		**ND**						02/20/2018
Surr: 1,2-Dichloroethane-d4			**49.9**	50.00		99.8	79.6	118	02/20/2018
Surr: 4-Bromofluorobenzene			**51.6**	50.00		103.3	83.9	115	02/20/2018
Surr: Dibromofluoromethane			**48.3**	50.00		96.7	84.9	113	02/20/2018
Surr: Toluene-d8			**50.0**	50.00		100.0	86.7	112	02/20/2018

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

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

Batch 139217 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-T180220A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	2.0		**47.3**	50.00	0	94.7	42.86	9.91	02/20/2018
Bromoform	5.0		**51.7**	50.00	0	103.4	50.80	1.78	02/20/2018
Ethylbenzene	5.0		**49.7**	50.00	0	99.4	45.14	9.60	02/20/2018
m,p-Xylenes	5.0		**101**	100.0	0	101.0	91.46	9.89	02/20/2018
Methylene chloride	5.0		**45.3**	50.00	0	90.6	42.14	7.18	02/20/2018
Naphthalene	10.0		**53.2**	50.00	0	106.3	52.97	0.36	02/20/2018
o-Xylene	5.0		**49.6**	50.00	0	99.2	46.02	7.47	02/20/2018
Toluene	5.0		**49.5**	50.00	0	98.9	45.68	7.95	02/20/2018
trans-1,2-Dichloroethene	5.0		**46.6**	50.00	0	93.2	40.93	13.00	02/20/2018
Xylenes, Total	5.0		**151**	150.0	0	100.4	137.5	9.09	02/20/2018
Surr: 1,2-Dichloroethane-d4			**49.5**	50.00		99.0			02/20/2018
Surr: 4-Bromofluorobenzene			**49.4**	50.00		98.8			02/20/2018
Surr: Dibromofluoromethane			**49.6**	50.00		99.2			02/20/2018
Surr: Toluene-d8			**49.8**	50.00		99.6			02/20/2018

Batch 139217 **SampType:** LCS Units µg/L

SampID: LCS-T180220A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		**42.9**	50.00	0	85.7	77.8	120	02/20/2018
Bromoform	5.0		**50.8**	50.00	0	101.6	74.6	126	02/20/2018
Ethylbenzene	5.0		**45.1**	50.00	0	90.3	81.8	117	02/20/2018
m,p-Xylenes	5.0		**91.5**	100.0	0	91.5	82.7	118	02/20/2018
Methylene chloride	5.0		**42.1**	50.00	0	84.3	71	114	02/20/2018
Naphthalene	10.0		**53.0**	50.00	0	105.9	74.1	125	02/20/2018
o-Xylene	5.0		**46.0**	50.00	0	92.0	80.1	118	02/20/2018
Toluene	5.0		**45.7**	50.00	0	91.4	82.2	113	02/20/2018
trans-1,2-Dichloroethene	5.0		**40.9**	50.00	0	81.9	77.5	121	02/20/2018
Xylenes, Total	5.0		**137**	150.0	0	91.7	82.7	118	02/20/2018
Surr: 1,2-Dichloroethane-d4			**49.7**	50.00		99.4	79.6	118	02/20/2018
Surr: 4-Bromofluorobenzene			**48.7**	50.00		97.4	83.9	115	02/20/2018
Surr: Dibromofluoromethane			**49.2**	50.00		98.3	84.9	113	02/20/2018
Surr: Toluene-d8			**50.2**	50.00		100.5	86.7	112	02/20/2018

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: ERM

Client Project: Taylorville Ameren

Work Order: 18020995

Report Date: 28-Feb-18

Carrier: Employee

Received By: KF

Completed by: Amber M. Dilallo
On: 16-Feb-18

Reviewed by: Elizabeth A. Hurley
On: 16-Feb-18

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.

Headspace was present in the GW-16D and GW-16D DUP volatile vials. Brett Carney was notified of this error via voicemail. AMD 2/16/18

Trip Blank collection date and time will be reported as the received date and time (end of trip). - EHurley - 2/16/2018 11:33:12 AM

CHAIN OF CUSTODY

pg. 1 of 3 Work order # 1802095

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 4.42 °C

Preserved in: ☐ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes

18. * on 18. 0 HS in all other vials. Gm 2/16/18

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: Taylorville Ameren

Sample Collector's Name:

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: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: PAHs	VOCs
1802095-001	GW-16S *	2/14/18 1215	1				2									X	X	X
002	GW-16D *	1310															X	X
003	GW-16D DUP*	1310															X	X
004	GW-17 *	1330															X	X
005	GW-21	1440															X	X
006	GW-05 *	1535															X	X
	~~GW-22S~~																	
007	GW-22S	2/14/18 1605	1				2									X	X	X
008	GW-22D *	1730	1				2									X	X	X
009	GW-07 *	1845	1				2									X	X	X

Relinquished By	Date/Time	Received By	Date/Time
	2/16/18 0920		2/16/18 920

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: 42150

Gm 2/16/18

CHAIN OF CUSTODY

pg. 2 of 3 Work order # 1802095 TE 2/14/18

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: [X] ICE [ ] BLUE ICE [ ] NO ICE 4.42 °C

Preserved in: [X] LAB [ ] FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments: MS/MSD Collected @ GW-01

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: Taylorville Ameren

Sample Collector's Name:

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: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: PAHs	VOCs
1802095-010	GW-18D *	2/15/18 0845	1				2									X	X	X
011	GW-18S *	0835																
012	GW-19D *	0945																
013	GW-19S	1015																
014	GW-20	1045																
015	GW-14 *	1250																
016	GW-01	1315																
017	GW-01 DUP	1315																
018	GW-02 *	1340																
019	GW-03	1410																

Relinquished By	Date/Time	Received By	Date/Time
	2/16/18 0920	K Keesh	2/16/18 920

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BottleOrder: 42150

CHAIN OF CUSTODY

pg. 3 of 3 Work order # 1802095

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: [X] ICE [ ] BLUE ICE [ ] NO ICE 4.42 °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: Taylorville Ameren

Sample Collector's Name:

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: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: PAHs	VOCs
1802095-020	GW-15 *	2/15/18 1520	1				2									X	X	X
021	GW-04R	1550	1				2									X	X	X
022	Trip Blank 1	— —					2				X						X	
023	Trip Blank 2	— —					2				X						X	

Relinquished By	Date/Time	Received By	Date/Time
	2/16/18 0420	K Keeler	2/16/18 920

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BottleOrder: 42150