January 29, 2020

Mr. Todd Hall
Illinois Environmental Protection Agency
Bureau of Land - Remedial Project Management Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Re: Groundwater Monitoring Update – Quarter 4, 2019 Sampling Event
Champaign Former Manufactured Gas Plant, Champaign, Illinois

Dear Mr. Hall:

Ameren Illinois (Ameren) is providing this Champaign Groundwater Monitoring report for the former manufactured gas plant (MGP) site located at 308 N. 5th Street in Champaign, Illinois to the Illinois Environmental Protection Agency (IEPA). This groundwater monitoring summary report was prepared by Environmental Resources Management (ERM) on behalf of Ameren.

Attachment 1 to this letter is the groundwater monitoring summary report for the fourth quarter of 2019, which was performed in November 2019. This report discusses the analytical results of the quarterly groundwater monitoring event. Additional groundwater monitoring events are scheduled to be performed each quarter in 2020.

Ameren appreciates your assistance and cooperation as we proceed with this project. If you have any questions regarding the responses provided, or need additional information, please feel free to contact me.

Respectfully,

Dave Palmer, PG, PMP, EVMP
Manager, Remediation Projects
Ameren - Environmental Strategy & Analysis
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Attachment 1

Attachment 1

Groundwater Monitoring Summary – Quarter 4 2019 – Champaign MGP

ERM

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January 21, 2020

Mr. Todd Hall
Illinois Environmental Protection Agency
Division of Remediation Management
1021 North Grand Ave East
P.O. Box 19276
Springfield, IL 62794-9276

Subject: Groundwater Monitoring Summary
Fourth Quarter 2019 Sampling Event
Champaign Former MGP Site, Champaign, Illinois

Dear Mr. Hall:

On behalf of Ameren Illinois, Environmental Resources Management, Inc. (ERM) has completed the fourth quarter 2019 groundwater sampling event at the Champaign Former Manufactured Gas Plant (FMGP) Site, located at 308 N. 5th Street in Champaign, Illinois. This report summarizes the field data and analytical results for the quarterly groundwater monitoring event conducted in November 2019, and provides a review of analytical results over the four quarterly events completed during the 2019 calendar year.

INTRODUCTION

Groundwater sampling activities for the fourth quarter 2019 monitoring event were conducted from November 4 through 6. During the sampling event, groundwater samples were collected from 28 monitoring wells, which include seven on-site monitoring wells and 21 off-site monitoring wells.

The depth to groundwater was initially measured at each monitoring well location upon arrival. Groundwater was purged from the monitoring wells using the dedicated bladder pumps until water quality instrumentation indicated that measured parameters had stabilized. Upon stabilization, water samples were collected in containers provided by the laboratory, and placed in ice-filled coolers pending delivery to the analytical laboratory.

Groundwater samples were analyzed for the following MGP-related compounds: the volatile organic compounds benzene, toluene, ethylbenzene, and total xylenes (BTEX); polynuclear aromatic hydrocarbons (PAHs); total cyanide; and total RCRA metals. Laboratory analytical services were provided by Teklab, Inc. (Teklab) of Collinsville, Illinois.

Groundwater level measurement data for the fourth quarter 2019 sampling event is provided in Table 1. Information on the table includes measurements of depth to water below each well's top of casing, and calculated groundwater elevation. Groundwater elevation contour maps for the shallow monitoring zone (100 series wells) and the intermediate depth unit (300 series wells) are provided on Figures 1 and 2, respectively.

The analytical results for groundwater samples collected during this event are summarized in Table 2. The concentrations reported in samples that exceed an applicable Illinois Environmental Protection Agency (IEPA) groundwater remedial objective (RO) are

highlighted. The monitoring well locations where sample results exceeded a RO are also shown on Figure 3. The laboratory analytical reports prepared by Teklab are provided in Attachment 1.

Quality assurance samples collected during the event included duplicates, matrix spike and matrix spike duplicates, an equipment blank, and a trip blank. Blind duplicates were collected from shallow monitoring well locations UMW-124 and UMW-126, and from intermediate monitoring well location UMW-302. The three duplicate samples were identified on the chain of custody and laboratory analytical report as DUP 001 through DUP 003. Duplicate sample results are shown on Table 2 adjacent to the primary samples. A summary of the results of data validation is also included with the analytical report in Attachment 1.

Purge water that was collected from the monitoring wells during the fourth quarter 2019 groundwater sampling event was containerized in a 300-gallon plastic tote. The purge water is managed for disposal under the Urbana and Champaign Sanitary District (UCSD) discharge permit. Approximately 100 gallons of purge water were generated during the November groundwater sampling event. This purge water was discharged to the UCSD-designated discharge point on November 6, 2019 under the UCSD permit for the Site.

GROUNDWATER MONITORING RESULTS

Groundwater Levels

The measured depth to groundwater and elevations at the Champaign FMGP Site for the November 2019 sampling event are shown on Table 1. The depth to groundwater in the shallow monitoring wells ranged from 2.24 to 8.99 feet below land surface (BLS). The shallowest occurrence of groundwater occurred at the on-site monitoring well locations, with depths ranging from 2.24 to 4.24 feet BLS.

As shown on Figure 1, the shallow groundwater at the FMGP Site flows in a radial pattern from the Site. This groundwater flow pattern is consistent with historical groundwater level surveys conducted at the Site. The groundwater gradients for the shallow groundwater zone during November 2019 were calculated to be 0.025 (UMW-124 to UMW-105), 0.013 (UMW-124 to UMW-116), and 0.013 (UMW-125 to UMW-109) foot per foot (ft/ft). This range of values reflects the general gradients to the south, west and north from the Site.

The depths to groundwater in the nine intermediate monitoring wells, which monitor the intermediate groundwater unit, ranged from 27.34 to 30.04 feet BLS. As shown on Figure 2, the intermediate groundwater flow direction generally slopes towards the south and southeast, with a groundwater gradient of approximately 0.0013 ft/ft across the Site from UMW-300 to UMW-308.

Analytical Results

Figure 3 summarizes the monitoring well locations where constituents reported in samples collected during the November 2019 sampling event exceeded at least one Class I or Class II ingestion RO, or inhalation groundwater RO. The shallow groundwater unit is classified as Class II groundwater, and the lower intermediate unit is classified as Class I groundwater. Two of the 28 monitoring wells sampled in the fourth quarter 2019 had at least one MGP-related constituent exceeding a respective Class I or II ingestion, or inhalation RO.

The concentrations measured in samples submitted for analysis of the eight RCRA metals and cyanide were all below their respective groundwater RO.

Monitoring well locations where concentrations of organic constituents (BTEX or PAHs) from the November 2019 sampling event exceeded their respective RO included shallow monitoring well UMW-124 and intermediate well UMW-302. A benzene concentration of 0.0881 mg/L was reported in shallow on-site monitoring well UMW-124, which exceeds the Class II groundwater RO of 0.025 mg/L. Concentrations of other organic constituents measured in the other seventeen shallow monitoring wells located on-site or off-site were below their respective Class II RO.

Benzene and naphthalene were reported in samples collected from intermediate well UMW-302, at concentrations of 0.286 and 3.20 mg/L, respectively, exceeding the Class I groundwater ingestion ROs of 0.005 and 0.14 mg/L. The benzene and naphthalene constituent concentrations also exceed the groundwater (vapor) inhalation ROs for indoor air at residential sites. Ethylbenzene was also reported in the primary and duplicate samples collected from UMW-302 at concentrations of 0.687 and 0.863 mg/L, which exceed the groundwater RO of 0.37 mg/L for indoor inhalation at residential sites, but only the duplicate sample result exceeds the Class I groundwater ingestion RO of 0.7 mg/L. This intermediate well is screened from 35 to 45 feet below land surface, and is separated by over 20 vertical feet of silty clay from the overlying shallow water monitored in the co-located shallow well UMW-121. Of the nine intermediate monitoring wells screened in the lower groundwater source, UMW-302 is the only intermediate well location with a constituent concentration exceeding a Class I groundwater ingestion or inhalation RO.

Data Validation

A summary of the results of data validation is included with the analytical report in Attachment 1. ERM reviewed analytical data from the fourth quarter 2019 groundwater sampling event for compliance with quality assurance/quality control (QA/QC) and method-prescribed criteria for review of holding time and sample preservation, blank samples, spike samples, surrogate spikes, and duplicate samples. Additional data review of calibration, internal standards, and recalculation was completed for 20 percent of the samples (6 samples: UMW-102-WG-20191106, UMW-124-WG-20191106, UMW-125-WG-20191106, UMW-127-WG-20191106, UMW-302-WG-20191106, and DUP 003-WG-20191106).

The results of the data validation indicated that data from the fourth quarter 2019 groundwater sampling event did not require modification, other than addition of qualifiers. There were no numerical changes to the data as a result of the data validation. All of the data, including qualified data, can be used for decision-making purposes; however, the limitations indicated by the applied qualifiers should be considered when using the data.

CONCLUSIONS – 4th Quarter Results

Based on the data collected during the November 2019 sampling event, on-site monitoring well UMW-124 was the only shallow monitoring well where a concentration was detected in samples that exceeded a Class II groundwater ingestion RO. Benzene was the only constituent reported in this sample that exceeded a groundwater RO. No other Class II groundwater ROs for organic (BTEX and PAHs) or inorganic (cyanide or metals) constituents were exceeded in samples collected from the other monitoring wells screened in the shallow groundwater unit.

The deeper groundwater unit, as represented by the 300-series wells screened in the intermediate groundwater unit, had confirmed detections in one monitoring well location which exceeded groundwater ROs: monitoring well UMW-302, located south of the Site.

Benzene and naphthalene were reported in UMW-302 at concentrations exceeding the Class I groundwater ingestion RO, and concentrations of benzene, ethylbenzene, and naphthalene exceeded the groundwater inhalation ROs for indoor air.

CONCLUSIONS – SUMMARY OF ANNUAL RESULTS

The analytical results from sampling events completed during the two-year period between October 2017 and November 2019 are summarized on Table 3. The tabular display of the analytical results was used to assess changes in constituent concentrations over time.

Summary of Remedial Objectives Exceeded

Groundwater Ingestion Pathway

Exceedances of the groundwater ingestion ROs for the shallow and intermediate groundwater units (Class II or Class I ROs, respectively) for the four groundwater sampling events completed in 2019 were limited to the following well locations and constituents. The concentration listed is the highest value of the primary or duplicate sample collected at the location.

- UMW-124: benzene (0.025 mg/L Class II groundwater ingestion RO), all four events with reported concentrations of 0.145, 0.166, 0.116, and 0.0916 mg/L, respectively.
- UMW-126: benzene (0.025 mg/L Class II groundwater ingestion RO), the first three events with reported concentrations of 0.145, 0.195, 0.109 mg/L, respectively. The fourth quarter result was reported at 0.0144 mg/L, below the RO value.
- UMW-302:
    - benzene (0.005 mg/L Class I groundwater ingestion RO), all four events with reported concentrations of 0.532, 0.288, 0.215, and 0.372 mg/L, respectively.
    - ethylbenzene (0.7 mg/L Class I groundwater ingestion RO), all four events with reported concentrations of 0.929, 0.751, 0.741, and 0.863 mg/L, respectively.
    - naphthalene (0.14 mg/L Class I groundwater ingestion RO), all four events with reported concentrations of 2.83, 2.65, 1.68, and 3.20 mg/L, respectively.

Indoor Inhalation Pathway

Exceedance of the groundwater remedial objective for the indoor inhalation pathway for residential sites for the four groundwater sampling events completed in 2019 was limited to the following well locations and constituents:

- UMW-124: benzene (0.11 mg/L RO), the first, second, and third events with reported concentrations of 0.145, 0.166, and 0.116 mg/L respectively. The fourth quarter result was 0.0916 mg/L, below the RO value.
- UMW-126: benzene (0.11 mg/L RO), the first and second events with reported concentrations of 0.145, 0.195 mg/L, respectively. The third and fourth quarter results were 0.109, and 0.0144 mg/L, below the RO value.

- UMW-302:
    - benzene (0.11 mg/L Class I groundwater ingestion RO), all four events with reported concentrations of 0.532, 0.288, 0.215, and 0.372 mg/L, respectively.
    - ethylbenzene (0.37 mg/L Class I groundwater ingestion RO), all four events with reported concentrations of 0.929, 0.751, 0.741, 0.863 mg/L, and 0.372 mg/L, respectively.
    - naphthalene (0.075 mg/L Class I groundwater ingestion RO), all four events with reported concentrations of 2.83, 2.65, 1.68, and 3.20 mg/L, respectively.

During the second quarter groundwater sampling event, naphthalene was detected at a concentration of 0.91 mg/L at monitoring well location UMW-305. While this reported concentration exceeds the Class I groundwater ingestion, and indoor inhalation remedial objectives, the result has been excluded from the summary of exceedances provided in the previous discussion. The rationale for exclusion of this constituent from this well location is provided in the following section. The continued exclusion of this result is tentative and contingent on results of future sampling events confirming that the result reported during the second quarter event was not representative of groundwater conditions in this area of the site.

Anomalous Analytical Results

Anomalous observations from quarterly groundwater sampling events completed during the calendar year are summarized in this section. There were two anomalous occurrences reported in the analytical data during this period.

- Second Quarter: Naphthalene was detected in the groundwater sample from monitoring well UMW-305 during this event. Naphthalene concentrations during preceding events were reported as non-detect; and,
- Third Quarter: BTEX constituents in groundwater samples collected from UMW-124 and UMW-126 did not appear to match previous groundwater results. The results seemed to indicate that the two sample results were potentially transposed.

Discussions of these anomalous results, and updates to the discussion based on subsequent analytical results are provided in the following sections.

Second Quarter Results – UMW-305

Naphthalene was detected in the sample from UMW-305 at a concentration of 0.91 mg/L during the second quarter sampling event. Naphthalene was not detected above the laboratory reporting limit concentration in the previous three sampling events, or subsequent two sampling events since the second quarter event when the anomalous result was reported. ERM completed an inspection of the area surrounding the monitoring well during the following event to determine if the well had been tampered with, or a spill may have occurred in the area. No evidence of either were observed. ERM also completed a review of field records and laboratory analytical backup information in an attempt to uncover the cause of this anomalous result. No information was discovered to

explain the high naphthalene result during this event. While results appear to indicate this was a singular event, continued monitoring will assess whether or not the second quarter result is representative of groundwater conditions in this area.

Third Quarter Results – UMW-124 and UMW-126

The reported results for the two sample locations UMW-124 and UMW-126 from the third quarter 2019 sampling event appear to be out of the normal range of historical values; however, there was no effect on exceedance of the Tier 1 ROs. Benzene was the only constituent in either sample reported to exceed a Tier 1 RO value, and both benzene concentrations exceeded the groundwater ingestion and inhalation RO. Based on fourth quarter and previous historical results, the observation during the third quarter sample event appears to show a one-time occurrence. However, continued monitoring will assess whether or not the third quarter results for these two sample locations are representative of groundwater conditions in this area.

Analytical Trends

The analytical results from sampling events completed during the two-year period between December 2017 and November 2019 are summarized on Table 3. Figures 4A through 4D graphically display the concentration of selected constituents at monitoring well locations UMW-107(R), UMW-124, UMW-126 and UMW-302, respectively, over the course of their entire monitoring periods.

Table 3 and Figure 4 illustrate that the concentrations reported in samples remain generally consistent or show some decline over time, exhibiting normal variability that is induced by seasonal fluctuations of precipitation or temperature at the time of the sampling event.

The next quarterly groundwater sampling event is scheduled to be completed in February 2020. Should you have any questions about the material presented in this summary letter, please contact us at your convenience.

Sincerely,

Gregory Moore, PE
Project Engineer

Tom H. Stiegemeier, P.E.
Principal Consultant

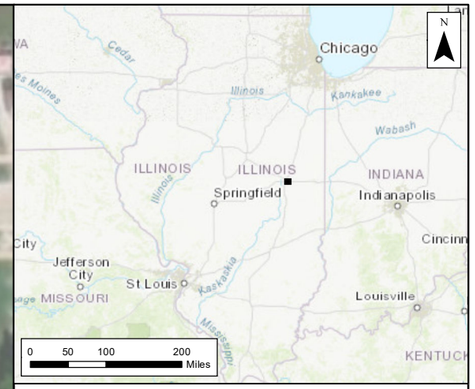
Attachments

Figure 1 Shallow Groundwater Elevation Contours
Figure 2 Intermediate Groundwater Elevation Contours
Figure 3 Class I and II Groundwater RO Exceedances
Figure 4 Graphs of Concentration versus Time for Selected Monitoring Well Locations

Table 1 Groundwater Elevation Data
Table 2 Summary of Analytical Results
Table 3 Analytical Result by Parameter

Attachment 1 Laboratory Analytical Report and Data Validation Summary

Figures



Legend

- Shallow Monitoring Well with November 2019 Groundwater Elevation
- November 2019 Potentiometric Surface Contour (Dashed Where Inferred)
- Site Boundary

Notes:
All water levels in feet above NGVD29 datum.

N

0 80 160
Feet

Figure 1
Shallow Groundwater Elevation Contours
November 2019
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com

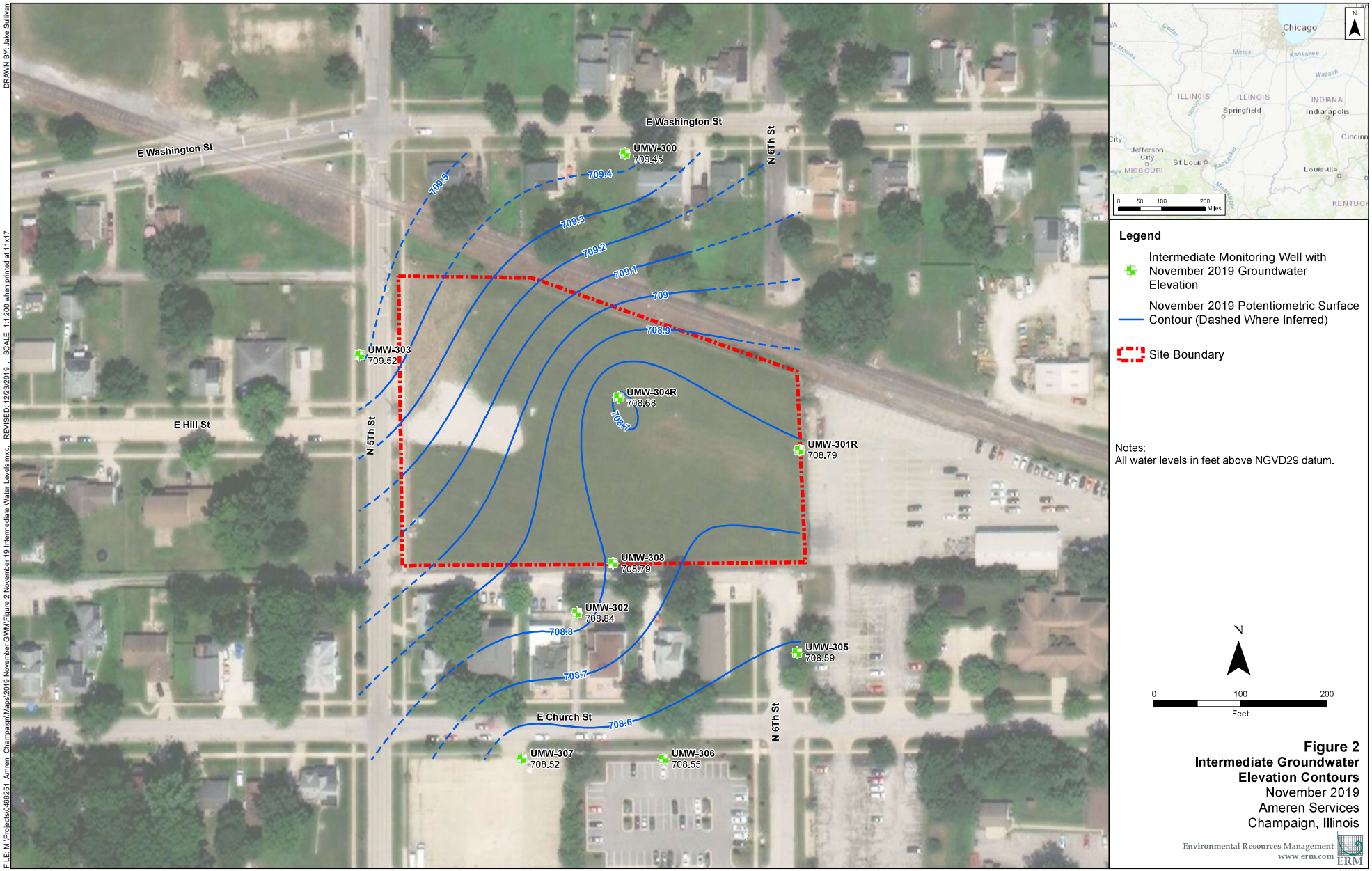


Figure 2
Intermediate Groundwater Elevation Contours
November 2019
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com

DRAWN BY: Jake Sullivan

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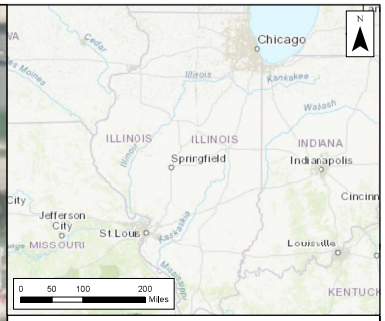
FILE: M:\Projects\0466251 Ameren Champaign\Maps\2019 November GWM\Figure 2 November 19 Intermediate Water Levels.mxd



Legend

- Intermediate Monitoring Well with Exceedance
- Shallow Monitoring Well with Exceedance
- Shallow Monitoring Well with No Exceedances
- Intermediate Monitoring Well with No Exceedences
- Site Boundary

Notes:
All results in milligrams per liter (mg/L).
Only results that exceeded the Class I (Intermediate) or Class II (Shallow or Intermediate) Groundwater ROs are listed.

N

0 100 200
Feet

Figure 3
Class I and II Groundwater RO Exceedances
November 2019
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com

DRAWN BY: Jake Sullivan
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FILE: M:\Projects\0466251 Ameren Champaign\Maps\2019 November GW\Figure 3 November 19 Exceedances.mxd

FIGURE 4A
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs

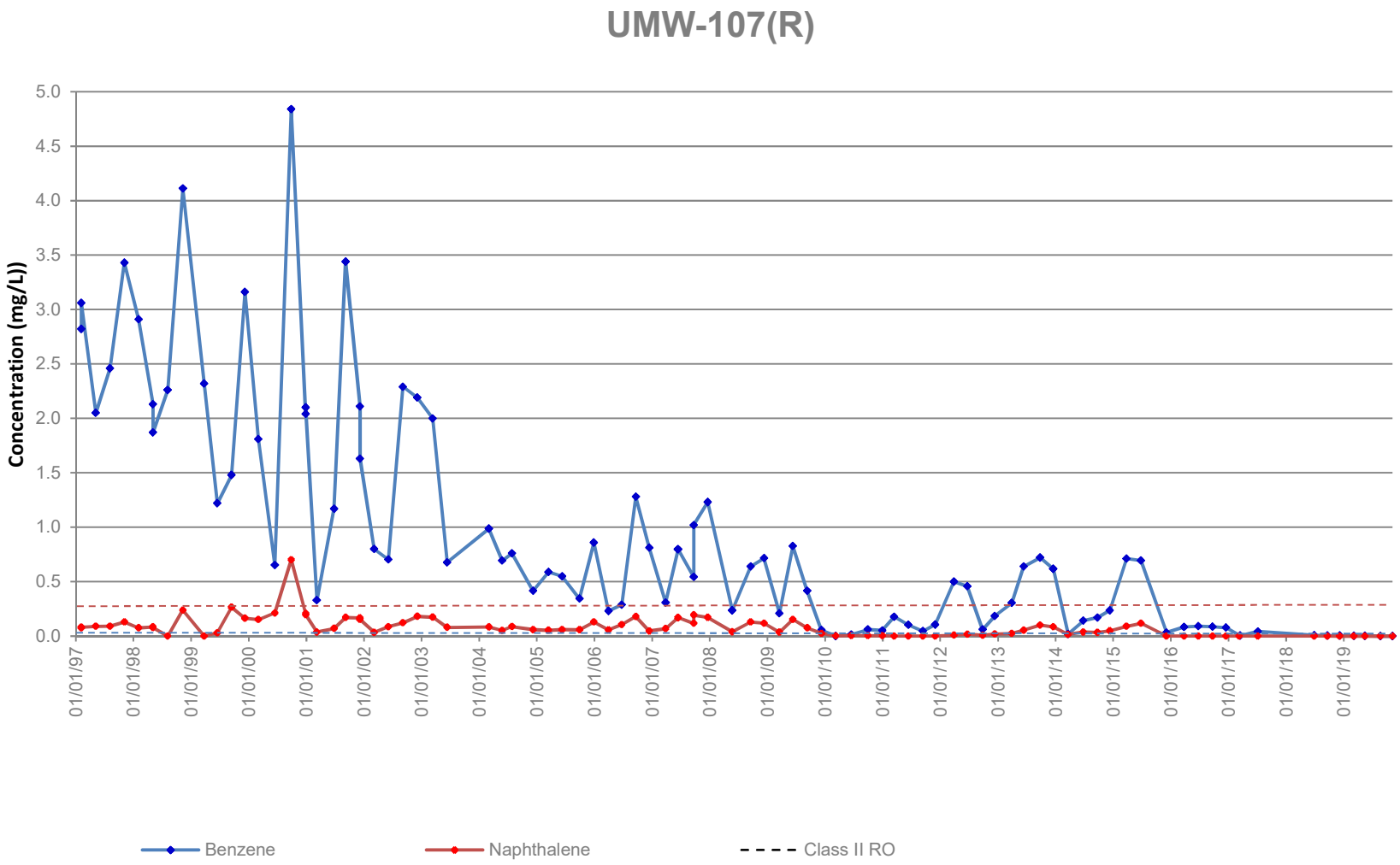


FIGURE 4B
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs

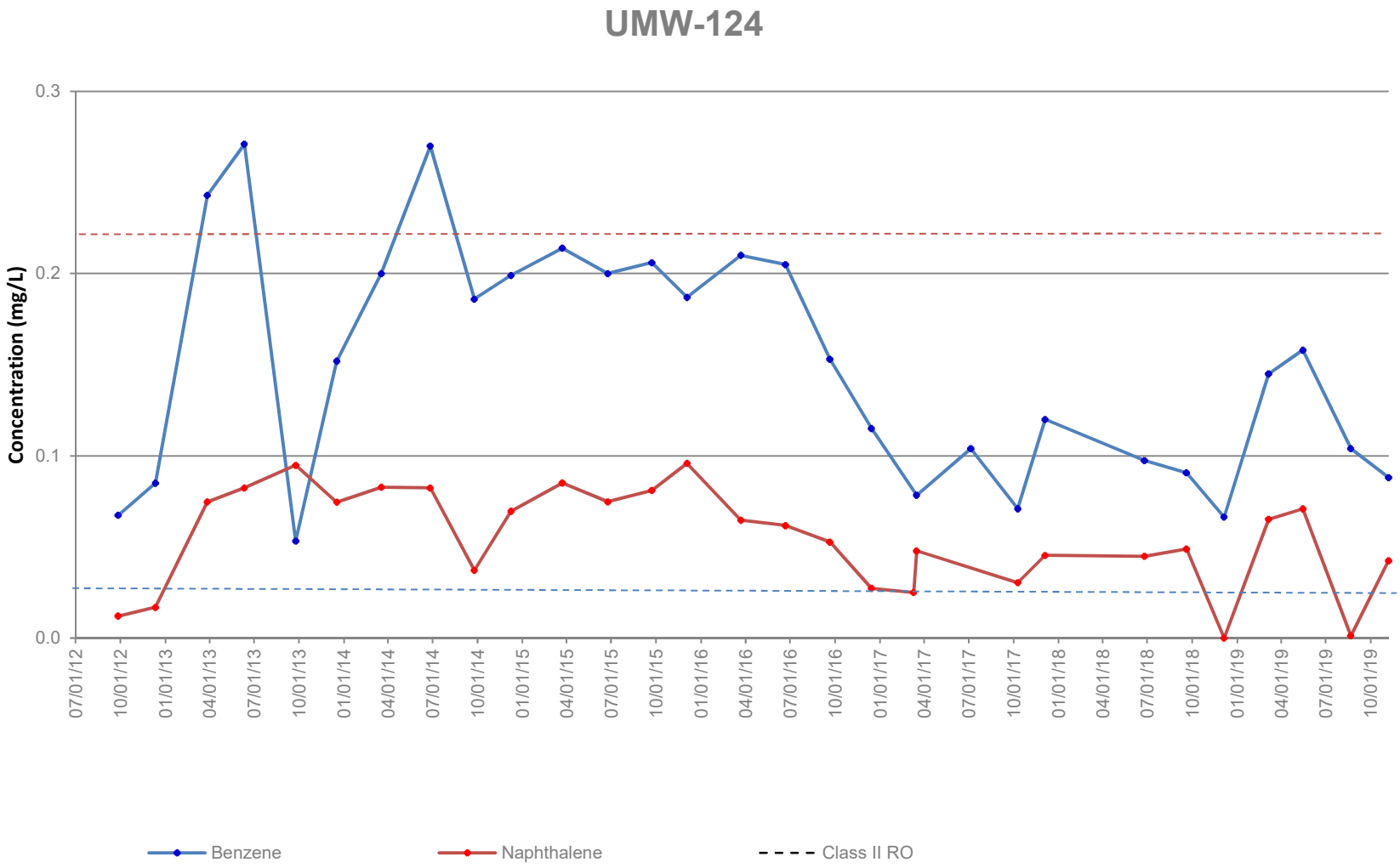


FIGURE 4C
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs

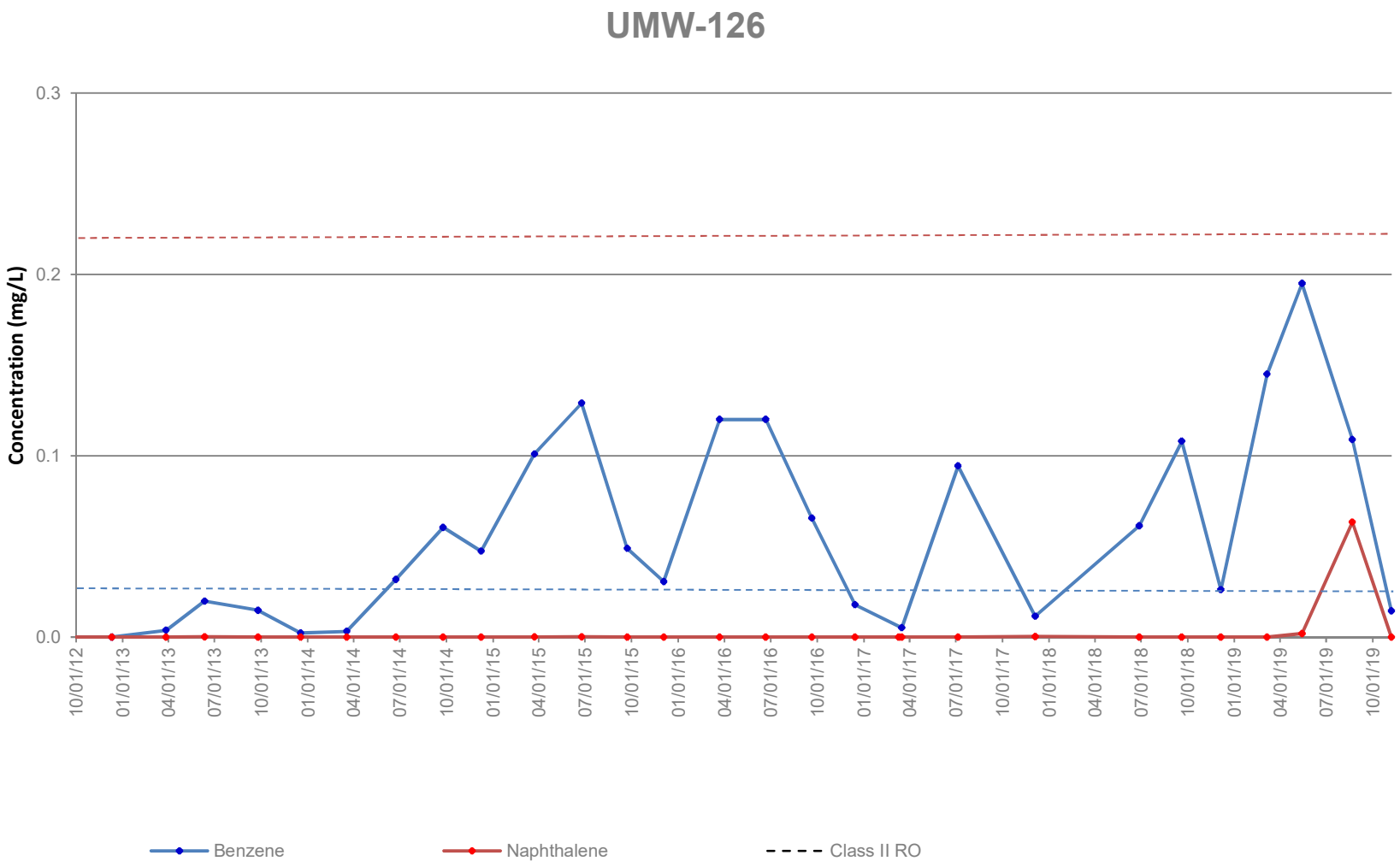
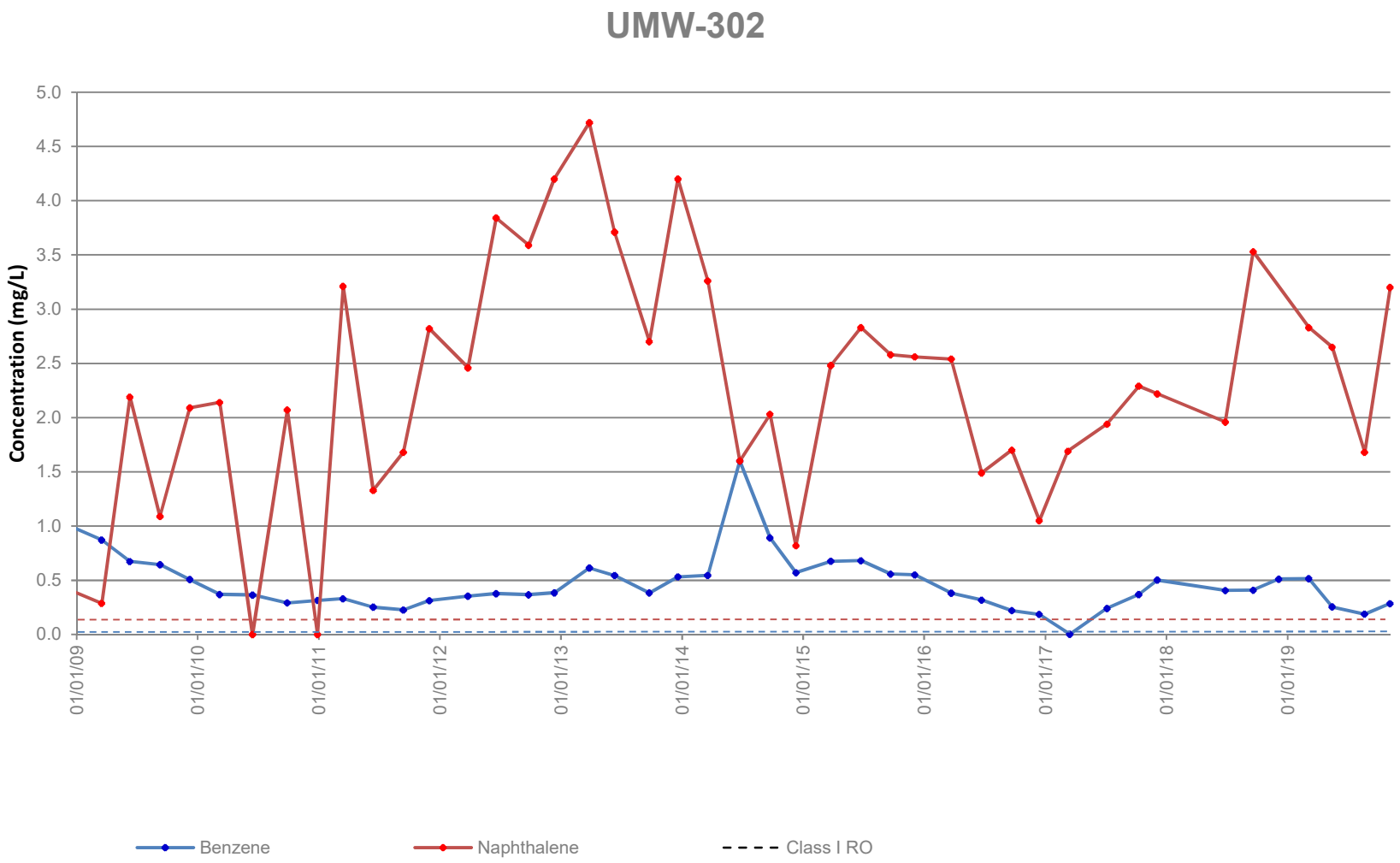


FIGURE 4D
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs



Tables

TABLE 1
Groundwater Elevation Data
November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Monitoring Well Number	Total Depth (feet)	Monitored Interval (feet BLS)	Pump Intake Depth (feet BLS)	Elevation (feet NGVD)		Nov-19			
				Top of Casing (TOC)	Land Surface (LS)	WL Below TOC (feet)	Elevation (feet NGVD)	Purge Vol (Gallons)	Flow Rate (mL/min)
UMW-102	22.00	6.70 - 22.0	20	737.32	737.70	5.82	731.50	2.75	220
UMW-105	19.70	9.50 - 19.70	17.7	737.33	737.70	7.34	729.99	2.25	97
UMW-106R	17.00	7.00 - 17.00	15	737.18	737.43	6.56	730.62	2.00	220
UMW-107R	19.70	9.50 - 19.70	17.7	736.88	737.30	5.96	730.92	3.25	150
UMW-108	15.00	4.80 - 15.00	13	736.86	737.10	4.12	732.74	2.00	170
UMW-109	20.00	10.00 - 20.00	18	735.11	735.50	5.34	729.77	3.00	60
UMW-111A	22.80	9.00 - 22.80	20.3	736.71	737.00	8.49	728.22	2.00	220
UMW-116	20.00	10.00 - 20.00	18	736.23	736.50	4.94	731.29	3.00	200
UMW-117	15.00	5.00 - 15.00	13	737.53	737.81	6.11	731.42	2.00	350
UMW-118	15.00	5.00 - 15.00	13	736.20	736.43	6.04	730.16	1.75	152
UMW-119	15.00	5.00 - 15.00	13	736.80	737.09	4.90	731.90	2.25	320
UMW-120	15.00	5.00 - 15.00	13	737.02	737.53	5.20	731.82	1.75	100
UMW-121	15.00	5.00 - 15.00	13	738.46	738.80	6.67	731.79	1.25	260
UMW-122	19.75	5.00 - 15.00	13	739.15	739.44	8.70	730.45	1.75	120
UMW-123	15.89	5.89 - 15.89	13.9	737.24	737.53	7.21	730.03	2.25	80
UMW-124 *	15.27	4.97 - 15.02	13.3	737.10	737.28	3.20	733.90	2.50	240
UMW-125 *	15.33	5.06 - 15.11	13.1	737.92	738.05	4.11	733.81	1.75	260
UMW-126 *	15.40	5.13 - 15.18	13.4	736.38	736.55	2.42	733.96	2.00	228
UMW-127 *	15.38	5.11 - 15.16	13.4	735.93	736.14	2.03	733.90	2.25	210
UMW-300	45.00	35.00 - 45.00	42	736.57	736.79	27.12	709.45	3.00	300
UMW-301R *	46.65	36.50 - 46.05	44	736.11	736.20	27.32	708.79	3.25	260
UMW-302	45.00	35.00 - 45.00	43	738.58	738.88	29.74	708.84	3.00	490
UMW-303	45.00	35.00 - 45.00	43	737.05	737.38	27.53	709.52	3.00	460
UMW-304R *	46.16	36.01 - 45.56	44	736.48	736.72	27.80	708.68	4.50	260
UMW-305	45.00	35.00 - 45.00	43	737.51	737.74	28.92	708.59	3.00	380
UMW-306	47.00	37.00 - 47.00	45	736.90	737.18	28.35	708.55	3.00	480
UMW-307	47.00	37.00 - 47.00	44	736.92	737.19	28.40	708.52	3.00	450
UMW-308 *	45.29	35.14 - 44.69	42.7	737.21	737.39	28.42	708.79	3.25	310

Notes:

*	Onsite monitoring well location
R	Replacement monitoring well.
BLS	Below land surface.
NGVD	National Geodetic Vertical Datum of 1929

TABLE 2
Summary of Analytical Results
November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group	Shallow Wells (Class 2 Groundwater Ingestion)									
			Location ID	UMW-102	UMW-105	UMW-106R	UMW-107R	UMW-108	UMW-109	UMW-111A	UMW-116	UMW-117	UMW-118
			Sample Date	11/6/2019	11/6/2019	11/5/2019	11/5/2019	11/5/2019	11/5/2019	11/4/2019	11/5/2019	11/5/2019	11/5/2019
			Sample Type	N	N	N	N	N	N	N	N	N	N
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES										
pH				6.61	6.92	6.90	7.23	6.49	7.13	7.01	6.92	6.56	6.91
Specific Conductance (µS/cm)				1999	2816	2758	1809	1907	1451	3202	2298	986	647
Temperature (°C)				15.6	16.1	16.4	15.2	14.4	14.0	16.9	16.5	16.6	14.9
ORP (mV)				31.1	61.4	99.5	-82.8	130.7	-9.4	135.7	69.7	105	75.1
Dissolved Oxygen (mg/L)				0.54	1.27	5.60	0.11	2.45	1.57	4.08	6.40	4.81	2.06
Turbidity (NTU)				1.73	0.59	4.33	53.4	11.9	3.03	0.51	0.29	2.83	10.2
01 - BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Xylene, Total	10	10	30	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040
02 - PAH, mg/L													
Acenaphthene	0.42	2.1	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Acenaphthylene	0.21	1.05	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Anthracene	2.1	10.5	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(a)anthracene	0.00013	0.00065	NS	0.000268	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(a)pyrene	0.0002	0.002	NS	0.000131	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(b)fluoranthene	0.00018	0.0009	NS	0.000185	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Chrysene	0.0015	0.0075	NS	0.000324	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Dibenzo(a,h)anthracene	0.0003	0.0015	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Fluoranthene	0.28	1.4	NS	0.000413	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000339	< 0.000200	< 0.000200	< 0.000200
Fluorene	0.28	1.4	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000104	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Naphthalene	0.14	0.22	**0.075**	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Phenanthrene	0.21	1.05	NS	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400
Pyrene	0.21	1.05	NS	0.000438	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000245	< 0.000200	< 0.000200	< 0.000200
03 - General Chemistry, mg/L													
Cyanide CN-	0.2	0.6	NS	< 0.005	0.052	0.041	0.376	0.028	0.030	< 0.005	< 0.005	< 0.005	0.041
04 - Metals, mg/L													
Arsenic	0.05	0.2	NS	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250
Barium	2	2	NS	0.0710	0.0550	0.0881	0.143	0.151	0.100	0.0487	0.0787	0.104	0.110
Cadmium	0.005	0.05	NS	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Chromium	0.1	1	NS	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0456	< 0.0050	0.0135	< 0.0050	< 0.0050
Lead	0.0075	0.1	NS	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Mercury	0.002	0.01	0.053	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium	0.05	0.05	NS	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Silver	0.05	NS	NS	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070

Notes:
Blue highlight = Exceeds RO for Class I Groundwater Ingestion
Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
< = Compound not detected at concentrations above the laboratory reporting detection
The laboratory reporting detection limit is shown.
Empty cells = not analyzed
N = Normal Environmental Sample
FD = Field Duplicate Sample
EB = Equipment Blank Sample
TB = Trip Blank Sample
NS = No Standard
mg/L = milligrams per liter
Qualifiers:
H = Holding times exceeded
R = RPD outside accepted recovery limits
Interpreted Qualifiers:
U = Nondetected
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Inge
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ing
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater In
Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 2
Summary of Analytical Results
November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group	Shallow Wells (Class 2 Groundwater Ingestion)										
			Location ID	UMW-119	UMW-120	UMW-121	UMW-122	UMW-123	UMW-124	DUP 001	UMW-125	UMW-126	DUP 002	UMW-127
			Sample Date	11/4/2019	11/4/2019	11/6/2019	11/5/2019	11/5/2019	11/6/2019	11/6/2019	11/6/2019	11/6/2019	11/6/2019	11/6/2019
			Sample Type	N	N	N	N	N	N	FD	N	N	FD	N
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES											
pH				6.90	7.16	6.71	6.97	7.22	10.87	-	9.38	7.46	-	12.39
Specific Conductance (µS/cm)				1351	568	2306	1805	749	1317	-	2743	1670	-	2856
Temperature (°C)				15.6	15.9	18.0	14.2	12.9	15.9	-	15.6	15.6	-	15.0
ORP (mV)				122.2	58.1	86.4	106.3	57.7	-251.3	-	71	-137.3	-	-266.5
Dissolved Oxygen (mg/L)				2.25	1.86	4.08	5.64	2.39	0.11	-	0.50	0.11	-	0.19
Turbidity (NTU)				5.52	11.6	3.22	1.55	0.67	29.2	-	6.38	8.11	-	15.1
01 - BTEX, mg/L														
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0881	0.0916	0.0008	0.0144	0.0125	0.0025
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0084	0.0086	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0483	0.0489	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Xylene, Total	10	10	30	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	0.0229	0.0235	< 0.0040	< 0.0040	< 0.0040	< 0.0040
02 - PAH, mg/L														
Acenaphthene	0.42	2.1	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000448	0.000427	< 0.000100	< 0.000100	< 0.000100	0.000216
Acenaphthylene	0.21	1.05	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000278	0.000297	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Anthracene	2.1	10.5	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(a)anthracene	0.00013	0.00065	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(a)pyrene	0.0002	0.002	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Chrysene	0.0015	0.0075	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Dibenzo(a,h)anthracene	0.0003	0.0015	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Fluoranthene	0.28	1.4	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Fluorene	0.28	1.4	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000160	0.000168	< 0.000100	< 0.000100	< 0.000100	0.000156
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Naphthalene	0.14	0.22	**0.075**	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.0425	0.0391	< 0.000239 U	< 0.000200	< 0.000250 U	< 0.00208 U
Phenanthrene	0.21	1.05	NS	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	0.000429
Pyrene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
03 - General Chemistry, mg/L														
Cyanide CN-	0.2	0.6	NS	0.033	< 0.005	0.117	0.018	< 0.005	< 0.005	< 0.005	0.061	< 0.005	< 0.005	< 0.005
04 - Metals, mg/L														
Arsenic	0.05	0.2	NS	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250
Barium	2	2	NS	0.0855	0.0311	0.0984	0.0473	0.0188	0.0321	0.0316	0.0170	0.0263	0.0265	0.146
Cadmium	0.005	0.05	NS	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0028	< 0.0020	< 0.0020	< 0.0020
Chromium	0.1	1	NS	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lead	0.0075	0.1	NS	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Mercury	0.002	0.01	0.053	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium	0.05	0.05	NS	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Silver	0.05	NS	NS	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070

Notes:
Blue highlight = Exceeds RO for Class I Groundwater Ingestion
Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
< = Compound not detected at concentrations above the laboratory reporting detection
The laboratory reporting detection limit is shown.
Empty cells = not analyzed
N = Normal Environmental Sample
FD = Field Duplicate Sample
EB = Equipment Blank Sample
TB = Trip Blank Sample
NS = No Standard
mg/L = milligrams per liter
Qualifiers:
H = Holding times exceeded
R = RPD outside accepted recovery limits
Interpreted Qualifiers:
U = Nondetected
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Inge
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ing
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater In
Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 2
Summary of Analytical Results
November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

				Location Group	Intermediate Wells (Class 1 Groundwater Ingestion)									
				Location ID	UMW-300	UMW-301R	UMW-302	DUP 003	UMW-303	UMW-304R	UMW-305	UMW-306	UMW-307	UMW-308
				Sample Date	11/4/2019	11/6/2019	11/6/2019	11/6/2019	11/5/2019	11/6/2019	11/6/2019	11/6/2019	11/5/2019	11/6/2019
				Sample Type	N	N	N	FD	N	N	N	N	N	N
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES											
pH				7.12	7.29	7.23	-	7.09	7.39	7.21	7.29	7.32	7.38
Specific Conductance (µS/cm)				1263	878	2369	-	2061	1007	1930	2147	2262	1013
Temperature (°C)				14.5	14.2	14.1	-	14.5	13.4	14.3	14.5	14.5	13.8
ORP (mV)				-21.2	-93.8	-135.9	-	-81.4	-113.7	-127.4	-135	-139.9	-117.9
Dissolved Oxygen (mg/L)				0.34	0.33	0.19	-	0.32	0.29	0.34	0.31	0.30	0.21
Turbidity (NTU)				3.9	5.75	1.41	-	4.22	3.48	6.8	1.24	8.94	22.6
01 - BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	**0.286**	**0.372**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	**0.687**	**0.863**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0400	0.0078	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Xylene, Total	10	10	30	< 0.0040	< 0.0040	0.188	< 0.4	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040
02 - PAH, mg/L													
Acenaphthene	0.42	2.1	NS	< 0.000100	0.00396	0.000614	0.000575	< 0.000100	0.000379	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Acenaphthylene	0.21	1.05	NS	< 0.000100	0.00584	0.000743	0.000685	< 0.000100	0.000816	< 0.000100 R	< 0.000100	< 0.000100	< 0.000100
Anthracene	2.1	10.5	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(a)anthracene	0.00013	0.00065	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(a)pyrene	0.0002	0.002	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Chrysene	0.0015	0.0075	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Dibenzo(a,h)anthracene	0.0003	0.0015	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Fluoranthene	0.28	1.4	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Fluorene	0.28	1.4	NS	< 0.000100	0.000215	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Naphthalene	0.14	0.22	**0.075**	< 0.000200	< 0.000200	**3.20**	**2.86**	0.00305 J+	< 0.000233 U	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Phenanthrene	0.21	1.05	NS	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400
Pyrene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
03 - General Chemistry, mg/L													
Cyanide CN-	0.2	0.6	NS	< 0.005	< 0.005	0.135	0.138	< 0.005	< 0.005	0.008	0.018	0.029	0.012
04 - Metals, mg/L													
Arsenic	0.05	0.2	NS	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250
Barium	2	2	NS	0.0881	0.0714	0.0531	0.0544	0.0369	0.0758	0.0910	0.111	0.105	0.105
Cadmium	0.005	0.05	NS	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Chromium	0.1	1	NS	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lead	0.0075	0.1	NS	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Mercury	0.002	0.01	0.053	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium	0.05	0.05	NS	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Silver	0.05	NS	NS	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070

Notes:
Blue highlight = Exceeds RO for Class I Groundwater Ingestion
Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
< = Compound not detected at concentrations above the laboratory reporting detection
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NS = No Standard
mg/L = milligrams per liter
Qualifiers:
H = Holding times exceeded
R = RPD outside accepted recovery limits
Interpreted Qualifiers:
U = Nondetected
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Inge
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ing
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater In
Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 2
Summary of Analytical Results
November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group	03 - Field Quality Control	
			Location ID	Equipment Blank	Trip Blank
			Sample Date	11/5/2019	11/7/2019
			Sample Type	EB	TB
Parameter/Analyte	**CLASS I GROUNDWATER INGESTION**	**CLASS II GROUNDWATER INGESTION**	**GW INHALATION DIFFUSION & ADVECTION RES**		
pH				-	-
Specific Conductance (µS/cm)				-	-
Temperature (°C)				-	-
ORP (mV)				-	-
Dissolved Oxygen (mg/L)				-	-
Turbidity (NTU)				-	-
01 - BTEX, mg/L					
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020
Xylene, Total	10	10	30	< 0.0040	< 0.0040
02 - PAH, mg/L					
Acenaphthene	0.42	2.1	NS	< 0.000100 H	-
Acenaphthylene	0.21	1.05	NS	< 0.000100 H	-
Anthracene	2.1	10.5	NS	< 0.000100 H	-
Benzo(a)anthracene	0.00013	0.00065	NS	< 0.000100 H	-
Benzo(a)pyrene	0.0002	0.002	NS	< 0.000100 H	-
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100 H	-
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200 H	-
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.000100 H	-
Chrysene	0.0015	0.0075	NS	< 0.000100 H	-
Dibenzo(a,h)anthracene	0.0003	0.0015	NS	< 0.000100 H	-
Fluoranthene	0.28	1.4	NS	< 0.000200 H	-
Fluorene	0.28	1.4	NS	< 0.000100 H	-
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000100 H	-
Naphthalene	0.14	0.22	**0.075**	0.00258 H	-
Phenanthrene	0.21	1.05	NS	< 0.000400 H	-
Pyrene	0.21	1.05	NS	< 0.000200 H	-
03 - General Chemistry, mg/L					
Cyanide CN-	0.2	0.6	NS	< 0.005	-
04 - Metals, mg/L					
Arsenic	0.05	0.2	NS	< 0.025	-
Barium	2	2	NS	<0.0025	-
Cadmium	0.005	0.05	NS	< 0.0020	-
Chromium	0.1	1	NS	< 0.0050	-
Lead	0.0075	0.1	NS	< 0.0075	-
Mercury	0.002	0.01	0.053	< 0.00020	-
Selenium	0.05	0.05	NS	< 0.0400	-
Silver	0.05	NS	NS	< 0.0070	-

Notes:
Blue highlight = Exceeds RO for Class I Groundwater Ingestion
Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
< = Compound not detected at concentrations above the laboratory reporting detection
The laboratory reporting detection limit is shown.
Empty cells = not analyzed
N = Normal Environmental Sample
FD = Field Duplicate Sample
EB = Equipment Blank Sample
TB = Trip Blank Sample
NS = No Standard
mg/L = milligrams per liter
Qualifiers:
H = Holding times exceeded
R = RPD outside accepted recovery limits
Interpreted Qualifiers:
U = Nondetected
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Inge
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Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene, total (mg/L)	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a) anthracene (mg/L)	Benzo(a) pyrene (mg/L)	Benzo(b) fluoranthene (mg/L)	Benzo(g,h,i) perylene (mg/L)
UMW-102	10/10/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/4/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	8/19/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0002
	11/6/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	0.000268	0.000131	0.000185	< 0.0002
UMW-105	10/12/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	<0.0005	0.004	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/6/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	0.000135	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-106R	10/11/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/25/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-107R	10/11/2017	0.0039	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	0.0219	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	0.0076	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	0.0045	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0038	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	0.0021	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	0.0033	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	0.0006	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-108	10/10/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-109	10/10/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzo(k) fluoranthene (mg/L)	Chrysene (mg/L)	Dibenzo(a,h) anthracene (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno(1,2,3-cd) pyrene (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)	Cyanide, total (mg/L)
UMW-102	10/10/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.005
	12/4/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.005
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.002 BU	<0.005
	3/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	0.000116	<0.0002	<0.0004	<0.002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.002	<0.005
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.002	<0.005
	11/6/2019	<0.0001	0.000324	<0.0001	0.000413	<0.0001	<0.0001	<0.0002	<0.0004	0.000438	<0.005
UMW-105	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.056
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.049
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.0162	<0.0004	<0.0001	0.057
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.049
	12/5/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.057
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.045
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.044
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.042
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.052
UMW-106R	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.038
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.044
	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.017
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.022
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.018
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.014
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.007
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.024
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.041
UMW-107R	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.363
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.509
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.453
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.381
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.385
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.333
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.406
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.409
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.376
UMW-108	10/10/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.03
	12/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.029
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.030
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	0.032
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.028
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.027
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.021
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.024
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.028
UMW-109	10/10/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	0.036
	12/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.005
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.031
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.036
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.024
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.010
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.017
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.020
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000104	<0.0001	<0.0002	<0.0004	<0.0002	0.030

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene, total (mg/L)	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a) anthracene (mg/L)	Benzo(a) pyrene (mg/L)	Benzo(b) fluoranthene (mg/L)	Benzo(g,h,i) perylene (mg/L)
UMW-111A	10/10/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-116	10/11/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/25/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-117	10/11/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/25/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000385
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-118	10/10/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	0.00021	0.00027	0.00027	0.00012
	12/5/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	0.00012	<0.0001	0.00025	0.00034	0.0004	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-119	10/11/2017	<0.002	<0.005	<0.005	< 0.005	0.00029	0.00041	0.00011	0.00014	0.00012	0.00011	<0.0001
	12/5/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	0.000144	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/19/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-120	10/9/2017	<0.002	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2017	<0.002	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.000167	<0.000167 UJ	<0.000167 BU	<0.000167	<0.000167	<0.000167	<0.000167
	3/6/2019	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/19/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzo(k) fluoranthene (mg/L)	Chrysene (mg/L)	Dibenzo(a,h) anthracene (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno(1,2,3-cd) pyrene (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)	Cyanide, total (mg/L)
UMW-111A	10/10/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/4/2019	<0.0001	<0.0001	<0.0001	0.000339	<0.0001	<0.0001	<0.0002	<0.0004	0.000245	<0.005
UMW-116	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000206	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0004	<0.0002	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
UMW-117	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001	<0.0001	0.000102	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/20/2019	<0.000192	<0.000192	<0.000192	<0.000385	<0.000192	<0.000192	<0.000385	<0.000769	<0.000385	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
UMW-118	10/10/2017	0.00009	0.00009	<0.0001	0.00019	<0.0001	0.0001	<0.0001	<0.0001	0.00093	0.056
	12/5/2017	0.00016	0.00013	<0.0001	0.00026	<0.0001	<0.0001	<0.0001	<0.0001	0.00115	0.059
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.031
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.034
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.043
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.028
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.028
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.029
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.041
UMW-119	10/11/2017	<0.0001	0.00015	<0.0001	0.00031	<0.0001	<0.0001	<0.0001	0.00016	0.00044	0.033
	12/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.039
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.036
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.033
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	0.026
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.031
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.027
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.035
	11/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.033
UMW-120	10/9/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.007
	12/4/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.000167	<0.000167	<0.000167	<0.000333 BU	<0.000167	<0.000167	<0.000333	<0.000667	<0.000333 BU	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene, total (mg/L)	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a) anthracene (mg/L)	Benzo(a) pyrene (mg/L)	Benzo(b) fluoranthene (mg/L)	Benzo(g,h,i) perylene (mg/L)
UMW-121	10/12/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/6/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-122	9/18/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/5/2019	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-123	10/11/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	<0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-124	10/13/2017	0.0713	0.0065	0.0276	0.0171	0.00038	0.00019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	**0.120**	0.0110	0.0558	0.032	0.00052	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/25/2018	0.0975	0.0091	0.0469	0.024	0.000486	0.000272	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.0869	0.009	0.0415	0.0236	0.000469	0.000248	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0664	0.0067	0.0313	0.018	0.000326	0.000187	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	**0.145**	0.0128	0.0743	0.0364	0.000586	0.00033	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	**0.166**	0.0177	0.103	0.048	0.000667	0.000405	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.104	0.0029	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0881	0.0084	0.0483	0.0229	0.000448	0.000278	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-125	10/12/2017	0.0432	0.0013	0.002	0.0014	0.00013	<0.0001	<0.0001	<0.0001	0.00008	<0.0001	<0.0001
	12/8/2017	0.0051	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	0.0091	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.0078	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0007	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/6/2019	0.0037	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	0.0040	<0.002	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.0065	<0.002	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0008	<0.002	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-126	10/12/2017	0.0052	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	0.0115	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	0.061	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.108	<0.002	0.0034	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0261	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	**0.142**	<0.002	0.0046	0.0022	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	**0.195**	0.0038	0.0337	0.0068	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.109	0.0143	0.0804	0.0391	0.000616	0.000382	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0144	<0.002	<0.002	<0.0040	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzo(k) fluoranthene (mg/L)	Chrysene (mg/L)	Dibenzo(a,h) anthracene (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno(1,2,3-cd) pyrene (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)	Cyanide, total (mg/L)
UMW-121	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.166
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.177
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.141
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.138
	12/5/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.108
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.122
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.098
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.099
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.117
UMW-122	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.027
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.028
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.017
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.013
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.013
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.018
UMW-123	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	<0.005
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
UMW-124	10/13/2017	<0.0001	<0.0001	<0.0001	<0.0001	0.00017	<0.0001	0.0304	<0.0001	<0.0001	0.008
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	0.00017	<0.0001	0.0454	0.00021	<0.0001	0.011
	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000179	<0.0001	0.0449	<0.0004	<0.0001	0.010
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000142	<0.0001	0.0489	<0.0004	<0.0001	0.010
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000109	<0.0001	<0.00255 U	<0.0004	<0.0002	0.008
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000204	<0.0001	0.0652	<0.0004	<0.0002	0.011
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000253	<0.0001	0.0709	<0.0004	<0.0002	0.007
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00125	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000160	<0.0001	0.0425	<0.0004	<0.0002	<0.005
UMW-125	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00319	0.00031	<0.0001	0.028
	12/8/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00079	<0.0001	<0.0001	0.029
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000748	<0.0004	<0.0001	0.038
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00102	<0.0004	<0.0001	0.048
	12/5/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.055
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.041
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000338	<0.0004	<0.0002	0.033
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000517	<0.0004	<0.0002	0.031
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000239	<0.0004	<0.0002	0.061
UMW-126	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00029	<0.0001	<0.0001	0.005
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000385	<0.0004	<0.0001	<0.005
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000505 U	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00195	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.0634	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene, total (mg/L)	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a) anthracene (mg/L)	Benzo(a) pyrene (mg/L)	Benzo(b) fluoranthene (mg/L)	Benzo(g,h,i) perylene (mg/L)
UMW-127	10/12/2017	0.0049	<0.005	<0.005	< 0.005	0.00014	0.00247	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	0.0049	<0.005	0.001	< 0.005	0.00017	0.000105	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	0.0031	< 0.002	< 0.002	< 0.002	0.00022	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.0029	< 0.002	< 0.002	< 0.002	0.000238	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	0.0021	< 0.002	< 0.002	< 0.002	0.000171	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/6/2019	0.0012	< 0.002	< 0.002	< 0.002	0.000149	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	0.0021	< 0.002	< 0.002	< 0.004	0.000202	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.0024	< 0.002	< 0.002	< 0.004	0.000199	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0025	< 0.002	< 0.002	< 0.004	0.000216	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-300	10/10/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2017	< 0.0005	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/19/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-301R	10/12/2017	< 0.002	<0.005	<0.005	< 0.005	0.00241	0.00277	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	< 0.002	<0.005	<0.005	< 0.005	0.00263	0.0031	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00411	0.00488	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00274	0.00337	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00349	0.00425	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	0.00407	0.00423	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.00317	0.00328	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.00317	0.00403	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.00396	0.00584	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-302	10/12/2017	**0.348**	**0.628**	<0.05	0.133	0.00011	0.00051	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	**0.502**	**0.771**	<0.05	0.182	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	**0.407**	**0.703**	<0.02	0.175	0.000349	0.000474	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	**0.409**	**0.751**	<0.02	0.198	0.000456	0.000652	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	**0.511**	**0.886**	<0.02	0.238	0.000368	0.00053	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	**0.516**	**0.929**	<0.02	0.247	0.000469	0.000593	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	**0.288**	**0.751**	0.0094	0.228	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	**0.188**	**0.697**	<0.04	0.179	0.000467	0.000498	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	**0.286**	**0.687**	<0.04	0.188	0.000614	0.000743	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-303	10/11/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/25/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.000111	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/5/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-304R	10/12/2017	< 0.002	<0.005	<0.005	< 0.005	0.00071	0.0014	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/8/2017	< 0.002	<0.005	<0.005	< 0.005	0.00067	0.00149	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.000486	0.00108	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.000539	0.00127	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00055	0.00139 J-	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	0.000608	0.00131	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000348	0.000778	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000313	0.000697	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000379	0.000816	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzo(k) fluoranthene (mg/L)	Chrysene (mg/L)	Dibenzo(a,h) anthracene (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno(1,2,3-cd) pyrene (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)	Cyanide, total (mg/L)
UMW-127	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	0.00016	<0.0001	0.00184	0.0004	<0.0001	<0.005
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	0.00015	<0.0001	0.00264	0.00033	<0.0001	<0.005
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000176	<0.0001	0.00192	0.000449	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.00017	<0.0001	<0.0022	0.000451	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	0.000134	<0.0001	<0.00169 U	<0.0004	<0.0002 BU	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.00011	<0.0001	<0.000631 U	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000134	<0.0001	0.00138	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000159	<0.0001	0.00195	0.000445	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000156	<0.0001	<0.00208	0.000429	<0.0002	<0.005
UMW-300	10/10/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
UMW-301R	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000241	<0.0001	0.000294	<0.0004	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000142	<0.0001	0.000238	<0.0004	<0.0001	<0.005
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000162	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000237	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000166	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000245	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000215	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
UMW-302	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**2.29**	<0.0001	<0.0001	0.117
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**2.05**	<0.0001	<0.0001	0.067
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**1.96**	<0.0004	<0.0001	0.091
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**3.53**	<0.0004	<0.0001	0.113
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<2.2U	<0.0004	<0.0002	0.134
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**2.83**	<0.0004	<0.0002	0.120
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**2.65**	<0.0004	<0.0002	0.130
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**1.68**	<0.0004	<0.0002	0.152
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**3.2**	<0.0004	<0.0002	0.135
UMW-303	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	12/5/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00188 U	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 UJ	<0.005
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00238	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00305 J+	<0.0004	<0.0002	<0.005
UMW-304R	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.007
	12/8/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00064	<0.0001	<0.0001	<0.005
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00576	<0.0004	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00106 U	<0.0004	<0.0002	<0.005
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000472	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000233	<0.0004	<0.0002	<0.005

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene, total (mg/L)	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a) anthracene (mg/L)	Benzo(a) pyrene (mg/L)	Benzo(b) fluoranthene (mg/L)	Benzo(g,h,i) perylene (mg/L)
UMW-305	10/12/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	< 0.002	<0.005	<0.005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000283	0.000283	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-306	10/11/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-307	10/11/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/6/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
UMW-308	10/13/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/7/2017	< 0.002	< 0.0005	< 0.0005	< 0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	6/27/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	0.000134	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002

TABLE 3
Analytical Results by Parameter
October 2017 to November 2019
Ameren - Champaign FMGP Site
Champaign, Illinois

Notes:
Exceeds RO for Class I Groundwater Ingestion Pathway
Exceeds RO for Class II Groundwater Ingestion Pathway
Bold Exceeds RO for Groundwater Indoor Inhalation Pathway - Diffusion and Advection for Residential Sites

Well ID	Date Sampled	Benzo(k) fluoranthene (mg/L)	Chrysene (mg/L)	Dibenzo(a,h) anthracene (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno(1,2,3-cd) pyrene (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)	Cyanide, total (mg/L)
UMW-305	10/12/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00043	<0.0001	<0.0001	0.009
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00043	<0.0001	<0.0001	0.012
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000366	<0.0004	<0.0001	0.014
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.012
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.011
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002 UJ	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.007
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000113	<0.0001	**0.910**	<0.0004	<0.0002	0.011
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.008
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.008
UMW-306	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.033
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.014
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.018
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.019
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002 SU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 SU	0.014
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.014
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000352	<0.0004	<0.0002	0.014
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.020
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.018
UMW-307	10/11/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.027
	12/6/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.043
	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.048
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.053
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.046
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.056
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.046
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.032
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.029
UMW-308	10/13/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.02
	12/7/2017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.005
	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.022
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.005	<0.0004	0.000107	0.018
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00025 U	<0.0004	<0.0002	0.018
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.011
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.022
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.015
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.012

Notes:
< = Compound not detected at concentrations above the laboratory reporting detection limit.
The laboratory reporting detection limit is shown.
Empty cells = not analyzed
N = Normal Environmental Sample
FD = Field Duplicate Sample
EB = Equipment Blank Sample
TB = Trip Blank Sample
NS = No Standard
mg/L = milligrams per liter
Qualifiers - Inorganic:
B = Reported value is < CRDL, but >= IDL.
BU = Compound was found in the blank and sample; analyte was analyzed but not detected.
Interpreted Qualifiers:
U = Nondetected
UJ = Nondetected, estimated report limit
J- = Detected Results are estimated with a low bias
J+ = Detected Results are estimated with a high bias
R = RPD outside accepted recovery limits
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I GROUNDWATER INGESTION
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II GROUNDWATER INGESTION
GW INHALATION DIFFUSION & ADVECTION RESIDENTIAL = IEPA TACO Tier 1 GW INHALATION DIFFUSION & ADVECTION RESIDENTIAL
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

Attachment 1

Laboratory Analytical Reports and Data Validation Summary

November 15, 2019

Greg Moore
ERM
2 CityPlace Drive, Suite 70
St. Louis, MO 63141
TEL: (314) 238-6162
FAX:

RE: Champaign GW **WorkOrder:** 19110533

Dear Greg Moore:

TEKLAB, INC received 33 samples on 11/7/2019 3:50:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

This reporting package includes the following:

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Abbr Definition

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

Qualifiers

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

Case Narrative

http://www.teklabinc.com/

Client: ERM
Client Project: Champaign GW

Work Order: 19110533
Report Date: 15-Nov-2019

Cooler Receipt Temp: 4.4 °C

Locations

Collinsville

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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2020	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2020	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2020	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2020	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2020	Collinsville
Arkansas	ADEQ	88-0966		3/14/2020	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Indiana	ISDH	C-IL-06		1/31/2020	Collinsville
Kentucky	KDEP	98006		12/31/2019	Collinsville
Kentucky	UST	0073		1/31/2020	Collinsville
Louisiana	LDPH	LA016		12/31/2019	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Tennessee	TDEC	04905		1/31/2020	Collinsville

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-001 **Client Sample ID:** UMW-102-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 11:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 17:30	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:08	159165
Barium	NELAP	0.0025		**0.0710**	mg/L	1	11/11/2019 22:08	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:08	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:08	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:08	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:08	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:08	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 8:58	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:17	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:17	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:17	159229
Benzo(a)anthracene	NELAP	0.000100		**0.000268**	mg/L	1	11/11/2019 17:17	159229
Benzo(a)pyrene	NELAP	0.000100		**0.000131**	mg/L	1	11/11/2019 17:17	159229
Benzo(b)fluoranthene	NELAP	0.000100		**0.000185**	mg/L	1	11/11/2019 17:17	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 17:17	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:17	159229
Chrysene	NELAP	0.000100		**0.000324**	mg/L	1	11/11/2019 17:17	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:17	159229
Fluoranthene	NELAP	0.000200		**0.000413**	mg/L	1	11/11/2019 17:17	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:17	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:17	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 17:17	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 17:17	159229
Pyrene	NELAP	0.000200		**0.000438**	mg/L	1	11/11/2019 17:17	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**93.4**	%REC	1	11/11/2019 17:17	159229
Surr: Nitrobenzene-d5	*	15-163		**94.4**	%REC	1	11/11/2019 17:17	159229
Surr: p-Terphenyl-d14	*	10-173		**132.0**	%REC	1	11/11/2019 17:17	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 14:00	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:00	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:00	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 14:00	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**90.6**	%REC	1	11/08/2019 14:00	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**93.1**	%REC	1	11/08/2019 14:00	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.1**	%REC	1	11/08/2019 14:00	159224
Surr: Toluene-d8	*	86.7-112		**94.5**	%REC	1	11/08/2019 14:00	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-002 **Client Sample ID:** UMW-105-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.010		**0.052**	mg/L	2	11/12/2019 13:40	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:11	159165
Barium	NELAP	0.0025		**0.0550**	mg/L	1	11/11/2019 22:11	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:11	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:11	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:11	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:11	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:11	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:09	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 17:54	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 17:54	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 17:54	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 17:54	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 17:54	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 17:54	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**88.7**	%REC	1	11/11/2019 17:54	159229
Surr: Nitrobenzene-d5	*	15-163		**100.2**	%REC	1	11/11/2019 17:54	159229
Surr: p-Terphenyl-d14	*	10-173		**136.6**	%REC	1	11/11/2019 17:54	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 14:26	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:26	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:26	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 14:26	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**90.5**	%REC	1	11/08/2019 14:26	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.1**	%REC	1	11/08/2019 14:26	159224
Surr: Dibromofluoromethane	*	84.9-113		**103.1**	%REC	1	11/08/2019 14:26	159224
Surr: Toluene-d8	*	86.7-112		**92.9**	%REC	1	11/08/2019 14:26	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-003 **Client Sample ID:** UMW-106R-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 14:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.041**	mg/L	1	11/11/2019 17:38	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:15	159165
Barium	NELAP	0.0025		**0.0881**	mg/L	1	11/11/2019 22:15	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:15	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:15	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:15	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:15	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:15	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:22	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 18:32	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 18:32	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 18:32	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 18:32	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 18:32	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 18:32	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**99.3**	%REC	1	11/11/2019 18:32	159229
Surr: Nitrobenzene-d5	*	15-163		**107.5**	%REC	1	11/11/2019 18:32	159229
Surr: p-Terphenyl-d14	*	10-173		**142.8**	%REC	1	11/11/2019 18:32	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 14:53	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:53	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:53	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 14:53	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**91.3**	%REC	1	11/08/2019 14:53	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.6**	%REC	1	11/08/2019 14:53	159224
Surr: Dibromofluoromethane	*	84.9-113		**103.7**	%REC	1	11/08/2019 14:53	159224
Surr: Toluene-d8	*	86.7-112		**93.9**	%REC	1	11/08/2019 14:53	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-004 **Client Sample ID:** UMW-107R-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 13:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.050		**0.376**	mg/L	10	11/12/2019 13:48	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:30	159165
Barium	NELAP	0.0025		**0.143**	mg/L	1	11/11/2019 22:30	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:30	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:30	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:30	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:30	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:30	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:24	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:10	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:10	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:10	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:10	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 19:10	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:10	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**100.4**	%REC	1	11/11/2019 19:10	159229
Surr: Nitrobenzene-d5	*	15-163		**111.8**	%REC	1	11/11/2019 19:10	159229
Surr: p-Terphenyl-d14	*	10-173		**141.1**	%REC	1	11/11/2019 19:10	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 15:20	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:20	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:20	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 15:20	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**89.2**	%REC	1	11/08/2019 15:20	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.3**	%REC	1	11/08/2019 15:20	159224
Surr: Dibromofluoromethane	*	84.9-113		**101.9**	%REC	1	11/08/2019 15:20	159224
Surr: Toluene-d8	*	86.7-112		**94.6**	%REC	1	11/08/2019 15:20	159224

Client: ERM
Work Order: 19110533
Client Project: Champaign GW
Report Date: 15-Nov-2019
Lab ID: 19110533-005
Client Sample ID: UMW-108-WG-20191105
Matrix: GROUNDWATER
Collection Date: 11/05/2019 8:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.028**	mg/L	1	11/11/2019 17:51	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:33	159165
Barium	NELAP	0.0025		**0.151**	mg/L	1	11/11/2019 22:33	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:33	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:33	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:33	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:33	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:33	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:26	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:48	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:48	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 19:48	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:48	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 19:48	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 19:48	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**88.6**	%REC	1	11/11/2019 19:48	159229
Surr: Nitrobenzene-d5	*	15-163		**97.3**	%REC	1	11/11/2019 19:48	159229
Surr: p-Terphenyl-d14	*	10-173		**124.9**	%REC	1	11/11/2019 19:48	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 15:47	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:47	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:47	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 15:47	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**90.9**	%REC	1	11/08/2019 15:47	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**95.7**	%REC	1	11/08/2019 15:47	159224
Surr: Dibromofluoromethane	*	84.9-113		**103.3**	%REC	1	11/08/2019 15:47	159224
Surr: Toluene-d8	*	86.7-112		**93.5**	%REC	1	11/08/2019 15:47	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-006 **Client Sample ID:** UMW-109-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 10:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.030**	mg/L	1	11/11/2019 15:02	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:37	159165
Barium	NELAP	0.0025		**0.100**	mg/L	1	11/11/2019 22:37	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:37	159165
Chromium	NELAP	0.0050		**0.0456**	mg/L	1	11/11/2019 22:37	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:37	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:37	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:37	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:29	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 20:25	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 20:25	159229
Fluorene	NELAP	0.000100		**0.000104**	mg/L	1	11/11/2019 20:25	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 20:25	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 20:25	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 20:25	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 20:25	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**91.1**	%REC	1	11/11/2019 20:25	159229
Surr: Nitrobenzene-d5	*	15-163		**101.4**	%REC	1	11/11/2019 20:25	159229
Surr: p-Terphenyl-d14	*	10-173		**131.2**	%REC	1	11/11/2019 20:25	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 16:15	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 16:15	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 16:15	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 16:15	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**89.5**	%REC	1	11/08/2019 16:15	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**93.7**	%REC	1	11/08/2019 16:15	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.9**	%REC	1	11/08/2019 16:15	159224
Surr: Toluene-d8	*	86.7-112		**93.1**	%REC	1	11/08/2019 16:15	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-007 **Client Sample ID:** UMW-111A-WG-20191104

Matrix: GROUNDWATER **Collection Date:** 11/04/2019 16:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 17:56	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:41	159165
Barium	NELAP	0.0025		**0.0487**	mg/L	1	11/11/2019 22:41	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:41	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:41	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:41	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:41	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:41	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 13:19	159178
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 21:03	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Fluoranthene	NELAP	0.000200		**0.000339**	mg/L	1	11/11/2019 21:03	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:03	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 21:03	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 21:03	159229
Pyrene	NELAP	0.000200		**0.000245**	mg/L	1	11/11/2019 21:03	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**100.9**	%REC	1	11/11/2019 21:03	159229
Surr: Nitrobenzene-d5	*	15-163		**111.0**	%REC	1	11/11/2019 21:03	159229
Surr: p-Terphenyl-d14	*	10-173		**144.2**	%REC	1	11/11/2019 21:03	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 16:42	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 16:42	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 16:42	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 16:42	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**91.0**	%REC	1	11/08/2019 16:42	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.9**	%REC	1	11/08/2019 16:42	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.4**	%REC	1	11/08/2019 16:42	159224
Surr: Toluene-d8	*	86.7-112		**94.5**	%REC	1	11/08/2019 16:42	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-008 **Client Sample ID:** UMW-116-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 18:00	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:44	159165
Barium	NELAP	0.0025		**0.0787**	mg/L	1	11/11/2019 22:44	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:44	159165
Chromium	NELAP	0.0050		**0.0135**	mg/L	1	11/11/2019 22:44	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:44	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:44	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:44	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:31	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 21:41	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 21:41	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 21:41	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 21:41	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 21:41	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 21:41	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**101.8**	%REC	1	11/11/2019 21:41	159229
Surr: Nitrobenzene-d5	*	15-163		**96.5**	%REC	1	11/11/2019 21:41	159229
Surr: p-Terphenyl-d14	*	10-173		**139.8**	%REC	1	11/11/2019 21:41	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 17:10	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:10	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:10	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 17:10	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**90.3**	%REC	1	11/08/2019 17:10	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**93.3**	%REC	1	11/08/2019 17:10	159224
Surr: Dibromofluoromethane	*	84.9-113		**101.0**	%REC	1	11/08/2019 17:10	159224
Surr: Toluene-d8	*	86.7-112		**93.8**	%REC	1	11/08/2019 17:10	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-009 **Client Sample ID:** UMW-117-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 9:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 18:09	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:48	159165
Barium	NELAP	0.0025		**0.104**	mg/L	1	11/11/2019 22:48	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:48	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:48	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:48	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:48	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:48	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:33	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 22:18	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 22:18	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/11/2019 22:18	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 22:18	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/11/2019 22:18	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/11/2019 22:18	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**103.8**	%REC	1	11/11/2019 22:18	159229
Surr: Nitrobenzene-d5	*	15-163		**106.6**	%REC	1	11/11/2019 22:18	159229
Surr: p-Terphenyl-d14	*	10-173		**152.2**	%REC	1	11/11/2019 22:18	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 17:37	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:37	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:37	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 17:37	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**90.3**	%REC	1	11/08/2019 17:37	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.7**	%REC	1	11/08/2019 17:37	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.6**	%REC	1	11/08/2019 17:37	159224
Surr: Toluene-d8	*	86.7-112		**93.8**	%REC	1	11/08/2019 17:37	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-010 **Client Sample ID:** UMW-118-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 11:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.041**	mg/L	1	11/11/2019 18:13	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:52	159165
Barium	NELAP	0.0025		**0.110**	mg/L	1	11/11/2019 22:52	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:52	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:52	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:52	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:52	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:52	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:35	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 0:49	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 0:49	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 0:49	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 0:49	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 0:49	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 0:49	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**99.2**	%REC	1	11/12/2019 0:49	159229
Surr: Nitrobenzene-d5	*	15-163		**103.1**	%REC	1	11/12/2019 0:49	159229
Surr: p-Terphenyl-d14	*	10-173		**140.1**	%REC	1	11/12/2019 0:49	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 18:05	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:05	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:05	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 18:05	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**89.7**	%REC	1	11/08/2019 18:05	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.9**	%REC	1	11/08/2019 18:05	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.6**	%REC	1	11/08/2019 18:05	159224
Surr: Toluene-d8	*	86.7-112		**93.6**	%REC	1	11/08/2019 18:05	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-011 **Client Sample ID:** UMW-119-WG-20191104

Matrix: GROUNDWATER **Collection Date:** 11/04/2019 15:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.033**	mg/L	1	11/11/2019 18:17	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 22:55	159165
Barium	NELAP	0.0025		**0.0855**	mg/L	1	11/11/2019 22:55	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 22:55	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 22:55	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 22:55	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 22:55	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 22:55	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 13:26	159178
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 1:27	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 1:27	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 1:27	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 1:27	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 1:27	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 1:27	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**100.0**	%REC	1	11/12/2019 1:27	159229
Surr: Nitrobenzene-d5	*	15-163		**99.4**	%REC	1	11/12/2019 1:27	159229
Surr: p-Terphenyl-d14	*	10-173		**122.3**	%REC	1	11/12/2019 1:27	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 18:32	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:32	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:32	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 18:32	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**89.8**	%REC	1	11/08/2019 18:32	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.3**	%REC	1	11/08/2019 18:32	159224
Surr: Dibromofluoromethane	*	84.9-113		**103.2**	%REC	1	11/08/2019 18:32	159224
Surr: Toluene-d8	*	86.7-112		**93.4**	%REC	1	11/08/2019 18:32	159224

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-012 **Client Sample ID:** UMW-120-WG20191104

Matrix: GROUNDWATER **Collection Date:** 11/04/2019 15:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 15:20	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 23:21	159165
Barium	NELAP	0.0025		**0.0311**	mg/L	1	11/11/2019 23:21	159165
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 23:21	159165
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 23:21	159165
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 23:21	159165
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 23:21	159165
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 23:21	159165
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:37	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:05	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:05	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:05	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:05	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 2:05	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:05	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**90.6**	%REC	1	11/12/2019 2:05	159229
Surr: Nitrobenzene-d5	*	15-163		**97.8**	%REC	1	11/12/2019 2:05	159229
Surr: p-Terphenyl-d14	*	10-173		**130.4**	%REC	1	11/12/2019 2:05	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 19:00	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 19:00	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 19:00	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 19:00	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**90.3**	%REC	1	11/08/2019 19:00	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.3**	%REC	1	11/08/2019 19:00	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.5**	%REC	1	11/08/2019 19:00	159224
Surr: Toluene-d8	*	86.7-112		**93.9**	%REC	1	11/08/2019 19:00	159224

Client: ERM
Work Order: 19110533
Client Project: Champaign GW
Report Date: 15-Nov-2019
Lab ID: 19110533-013
Client Sample ID: UMW-121-WG-20191106
Matrix: GROUNDWATER
Collection Date: 11/06/2019 14:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.117**	mg/L	5	11/12/2019 13:57	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 23:32	159166
Barium	NELAP	0.0025		**0.0984**	mg/L	1	11/11/2019 23:32	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 23:32	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 23:32	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 23:32	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 23:32	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 23:32	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:11	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:42	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:42	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 2:42	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:42	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 2:42	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 2:42	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**91.1**	%REC	1	11/12/2019 2:42	159229
Surr: Nitrobenzene-d5	*	15-163		**100.6**	%REC	1	11/12/2019 2:42	159229
Surr: p-Terphenyl-d14	*	10-173		**129.7**	%REC	1	11/12/2019 2:42	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 12:18	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 12:18	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 12:18	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 12:18	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.8**	%REC	1	11/08/2019 12:18	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.3**	%REC	1	11/08/2019 12:18	159198
Surr: Dibromofluoromethane	*	84.9-113		**104.0**	%REC	1	11/08/2019 12:18	159198
Surr: Toluene-d8	*	86.7-112		**93.8**	%REC	1	11/08/2019 12:18	159198

Client: ERM
Work Order: 19110533
Client Project: Champaign GW
Report Date: 15-Nov-2019
Lab ID: 19110533-014
Client Sample ID: UMW-122-WG-20191105
Matrix: GROUNDWATER
Collection Date: 11/05/2019 15:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.018**	mg/L	1	11/11/2019 18:48	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 23:36	159166
Barium	NELAP	0.0025		**0.0473**	mg/L	1	11/11/2019 23:36	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 23:36	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 23:36	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 23:36	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 23:36	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 23:36	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:40	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:20	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:20	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:20	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:20	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 3:20	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:20	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**92.8**	%REC	1	11/12/2019 3:20	159229
Surr: Nitrobenzene-d5	*	15-163		**102.1**	%REC	1	11/12/2019 3:20	159229
Surr: p-Terphenyl-d14	*	10-173		**125.4**	%REC	1	11/12/2019 3:20	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 12:43	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 12:43	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 12:43	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 12:43	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.9**	%REC	1	11/08/2019 12:43	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.5**	%REC	1	11/08/2019 12:43	159198
Surr: Dibromofluoromethane	*	84.9-113		**103.6**	%REC	1	11/08/2019 12:43	159198
Surr: Toluene-d8	*	86.7-112		**95.7**	%REC	1	11/08/2019 12:43	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-015 **Client Sample ID:** UMW-123-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 17:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 18:52	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 23:39	159166
Barium	NELAP	0.0025		**0.0188**	mg/L	1	11/11/2019 23:39	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 23:39	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 23:39	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 23:39	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 23:39	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 23:39	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:46	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:58	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:58	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 3:58	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:58	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 3:58	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 3:58	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**87.7**	%REC	1	11/12/2019 3:58	159229
Surr: Nitrobenzene-d5	*	15-163		**99.9**	%REC	1	11/12/2019 3:58	159229
Surr: p-Terphenyl-d14	*	10-173		**118.9**	%REC	1	11/12/2019 3:58	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 13:09	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 13:09	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 13:09	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 13:09	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**98.3**	%REC	1	11/08/2019 13:09	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.3**	%REC	1	11/08/2019 13:09	159198
Surr: Dibromofluoromethane	*	84.9-113		**102.0**	%REC	1	11/08/2019 13:09	159198
Surr: Toluene-d8	*	86.7-112		**92.6**	%REC	1	11/08/2019 13:09	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-016 **Client Sample ID:** UMW-124-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 18:56	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 23:43	159166
Barium	NELAP	0.0025		**0.0321**	mg/L	1	11/11/2019 23:43	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 23:43	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 23:43	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 23:43	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 23:43	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 23:43	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:13	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000448**	mg/L	1	11/12/2019 4:35	159229
Acenaphthylene	NELAP	0.000100		**0.000278**	mg/L	1	11/12/2019 4:35	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 4:35	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 4:35	159229
Fluorene	NELAP	0.000100		**0.000160**	mg/L	1	11/12/2019 4:35	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 4:35	159229
Naphthalene	NELAP	0.00500		**0.0425**	mg/L	25	11/12/2019 20:47	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 4:35	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 4:35	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**90.1**	%REC	1	11/12/2019 4:35	159229
Surr: Nitrobenzene-d5	*	15-163		**95.8**	%REC	1	11/12/2019 4:35	159229
Surr: p-Terphenyl-d14	*	10-173		**124.3**	%REC	1	11/12/2019 4:35	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**88.1**	µg/L	1	11/08/2019 13:35	159198
Ethylbenzene	NELAP	2.0		**8.4**	µg/L	1	11/08/2019 13:35	159198
Toluene	NELAP	2.0		**48.3**	µg/L	1	11/08/2019 13:35	159198
Xylenes, Total	NELAP	4.0		**22.9**	µg/L	1	11/08/2019 13:35	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.1**	%REC	1	11/08/2019 13:35	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.5**	%REC	1	11/08/2019 13:35	159198
Surr: Dibromofluoromethane	*	84.9-113		**102.5**	%REC	1	11/08/2019 13:35	159198
Surr: Toluene-d8	*	86.7-112		**92.4**	%REC	1	11/08/2019 13:35	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-017 **Client Sample ID:** UMW-125-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 7:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.010		**0.061**	mg/L	2	11/12/2019 14:01	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 23:47	159166
Barium	NELAP	0.0025		**0.0170**	mg/L	1	11/11/2019 23:47	159166
Cadmium	NELAP	0.0020		**0.0028**	mg/L	1	11/11/2019 23:47	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 23:47	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 23:47	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 23:47	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 23:47	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:16	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 5:13	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 5:13	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:13	159229
Naphthalene	NELAP	0.000200		**0.000239**	mg/L	1	11/12/2019 5:13	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 5:13	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 5:13	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**91.9**	%REC	1	11/12/2019 5:13	159229
Surr: Nitrobenzene-d5	*	15-163		**99.6**	%REC	1	11/12/2019 5:13	159229
Surr: p-Terphenyl-d14	*	10-173		**131.4**	%REC	1	11/12/2019 5:13	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**0.8**	µg/L	1	11/08/2019 14:01	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:01	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:01	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 14:01	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**98.8**	%REC	1	11/08/2019 14:01	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.3**	%REC	1	11/08/2019 14:01	159198
Surr: Dibromofluoromethane	*	84.9-113		**104.3**	%REC	1	11/08/2019 14:01	159198
Surr: Toluene-d8	*	86.7-112		**92.4**	%REC	1	11/08/2019 14:01	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-018 **Client Sample ID:** UMW-126-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 15:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 19:09	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/11/2019 23:50	159166
Barium	NELAP	0.0025		**0.0263**	mg/L	1	11/11/2019 23:50	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/11/2019 23:50	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/11/2019 23:50	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/11/2019 23:50	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/11/2019 23:50	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/11/2019 23:50	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:18	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 5:51	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 5:51	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 5:51	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 5:51	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 5:51	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 5:51	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**89.4**	%REC	1	11/12/2019 5:51	159229
Surr: Nitrobenzene-d5	*	15-163		**97.8**	%REC	1	11/12/2019 5:51	159229
Surr: p-Terphenyl-d14	*	10-173		**129.8**	%REC	1	11/12/2019 5:51	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**14.4**	µg/L	1	11/08/2019 14:26	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:26	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:26	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 14:26	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.6**	%REC	1	11/08/2019 14:26	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.4**	%REC	1	11/08/2019 14:26	159198
Surr: Dibromofluoromethane	*	84.9-113		**103.8**	%REC	1	11/08/2019 14:26	159198
Surr: Toluene-d8	*	86.7-112		**92.6**	%REC	1	11/08/2019 14:26	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-019 **Client Sample ID:** UMW-127-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 9:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 19:14	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:05	159166
Barium	NELAP	0.0025		**0.146**	mg/L	1	11/12/2019 0:05	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:05	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:05	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:05	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:05	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:05	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:20	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000216**	mg/L	1	11/12/2019 6:28	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 6:28	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 6:28	159229
Fluorene	NELAP	0.000100		**0.000156**	mg/L	1	11/12/2019 6:28	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 6:28	159229
Naphthalene	NELAP	0.000200		**0.00208**	mg/L	1	11/12/2019 6:28	159229
Phenanthrene	NELAP	0.000400		**0.000429**	mg/L	1	11/12/2019 6:28	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 6:28	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**98.9**	%REC	1	11/12/2019 6:28	159229
Surr: Nitrobenzene-d5	*	15-163		**111.2**	%REC	1	11/12/2019 6:28	159229
Surr: p-Terphenyl-d14	*	10-173		**130.3**	%REC	1	11/12/2019 6:28	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**2.5**	µg/L	1	11/08/2019 14:52	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:52	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 14:52	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 14:52	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.5**	%REC	1	11/08/2019 14:52	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**97.7**	%REC	1	11/08/2019 14:52	159198
Surr: Dibromofluoromethane	*	84.9-113		**102.6**	%REC	1	11/08/2019 14:52	159198
Surr: Toluene-d8	*	86.7-112		**92.6**	%REC	1	11/08/2019 14:52	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-020 **Client Sample ID:** UMW-300-WG-20191104

Matrix: GROUNDWATER **Collection Date:** 11/04/2019 16:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/11/2019 19:18	159194
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:09	159166
Barium	NELAP	0.0025		**0.0881**	mg/L	1	11/12/2019 0:09	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:09	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:09	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:09	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:09	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:09	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:49	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 7:06	159229
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 7:06	159229
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 7:06	159229
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 7:06	159229
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 7:06	159229
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 7:06	159229
Surr: 2-Fluorobiphenyl	*	21.4-142		**95.7**	%REC	1	11/12/2019 7:06	159229
Surr: Nitrobenzene-d5	*	15-163		**105.2**	%REC	1	11/12/2019 7:06	159229
Surr: p-Terphenyl-d14	*	10-173		**136.4**	%REC	1	11/12/2019 7:06	159229
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 15:18	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:18	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:18	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 15:18	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.1**	%REC	1	11/08/2019 15:18	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.9**	%REC	1	11/08/2019 15:18	159198
Surr: Dibromofluoromethane	*	84.9-113		**103.3**	%REC	1	11/08/2019 15:18	159198
Surr: Toluene-d8	*	86.7-112		**93.7**	%REC	1	11/08/2019 15:18	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-021 **Client Sample ID:** UMW-301R-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 12:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/12/2019 11:30	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:12	159166
Barium	NELAP	0.0025		**0.0714**	mg/L	1	11/12/2019 0:12	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:12	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:12	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:12	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:12	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:12	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:22	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.00396**	mg/L	1	11/12/2019 15:04	159286
Acenaphthylene	NELAP	0.000500		**0.00584**	mg/L	5	11/14/2019 11:32	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 15:04	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 15:04	159286
Fluorene	NELAP	0.000100		**0.000215**	mg/L	1	11/12/2019 15:04	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:04	159286
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 15:04	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 15:04	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 15:04	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**84.7**	%REC	1	11/12/2019 15:04	159286
Surr: Nitrobenzene-d5	*	15-163		**91.7**	%REC	1	11/12/2019 15:04	159286
Surr: p-Terphenyl-d14	*	10-173		**110.6**	%REC	1	11/12/2019 15:04	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 15:44	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:44	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 15:44	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 15:44	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.9**	%REC	1	11/08/2019 15:44	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.2**	%REC	1	11/08/2019 15:44	159198
Surr: Dibromofluoromethane	*	84.9-113		**104.1**	%REC	1	11/08/2019 15:44	159198
Surr: Toluene-d8	*	86.7-112		**93.1**	%REC	1	11/08/2019 15:44	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-022 **Client Sample ID:** UMW-302-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 14:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.135**	mg/L	5	11/12/2019 13:35	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:16	159166
Barium	NELAP	0.0025		**0.0531**	mg/L	1	11/12/2019 0:16	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:16	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:16	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:16	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:16	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:16	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:25	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000614**	mg/L	1	11/12/2019 15:42	159286
Acenaphthylene	NELAP	0.000100		**0.000743**	mg/L	1	11/12/2019 15:42	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 15:42	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 15:42	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 15:42	159286
Naphthalene	NELAP	2.00		**3.20**	mg/L	10000	11/15/2019 9:47	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 15:42	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 15:42	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**74.0**	%REC	100	11/14/2019 12:10	159286
Surr: Nitrobenzene-d5	*	15-163		**97.0**	%REC	100	11/14/2019 12:10	159286
Surr: p-Terphenyl-d14	*	10-173		**122.5**	%REC	1	11/12/2019 15:42	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10.0		**286**	µg/L	20	11/08/2019 16:09	159198
Ethylbenzene	NELAP	40.0		**687**	µg/L	20	11/08/2019 16:09	159198
Toluene	NELAP	40.0		**ND**	µg/L	20	11/08/2019 16:09	159198
Xylenes, Total	NELAP	80.0		**188**	µg/L	20	11/08/2019 16:09	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.2**	%REC	20	11/08/2019 16:09	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.1**	%REC	20	11/08/2019 16:09	159198
Surr: Dibromofluoromethane	*	84.9-113		**104.6**	%REC	20	11/08/2019 16:09	159198
Surr: Toluene-d8	*	86.7-112		**93.2**	%REC	20	11/08/2019 16:09	159198

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

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-023 **Client Sample ID:** UMW-303-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 11:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/12/2019 12:17	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:20	159166
Barium	NELAP	0.0025		**0.0369**	mg/L	1	11/12/2019 0:20	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:20	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:20	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:20	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:20	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:20	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:51	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 16:21	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 16:21	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:21	159286
Naphthalene	NELAP	0.000200		**0.00305**	mg/L	1	11/12/2019 16:21	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 16:21	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 16:21	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**78.2**	%REC	1	11/12/2019 16:21	159286
Surr: Nitrobenzene-d5	*	15-163		**87.6**	%REC	1	11/12/2019 16:21	159286
Surr: p-Terphenyl-d14	*	10-173		**121.8**	%REC	1	11/12/2019 16:21	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 16:35	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 16:35	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 16:35	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 16:35	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**98.9**	%REC	1	11/08/2019 16:35	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.5**	%REC	1	11/08/2019 16:35	159198
Surr: Dibromofluoromethane	*	84.9-113		**103.0**	%REC	1	11/08/2019 16:35	159198
Surr: Toluene-d8	*	86.7-112		**93.7**	%REC	1	11/08/2019 16:35	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-024 **Client Sample ID:** UMW-304R-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/12/2019 12:22	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:23	159166
Barium	NELAP	0.0025		**0.0758**	mg/L	1	11/12/2019 0:23	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:23	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:23	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:23	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:23	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:23	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:31	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000379**	mg/L	1	11/12/2019 16:59	159286
Acenaphthylene	NELAP	0.000100		**0.000816**	mg/L	1	11/12/2019 16:59	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 16:59	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 16:59	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 16:59	159286
Naphthalene	NELAP	0.000200		**0.000233**	mg/L	1	11/12/2019 16:59	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 16:59	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 16:59	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**88.6**	%REC	1	11/12/2019 16:59	159286
Surr: Nitrobenzene-d5	*	15-163		**93.0**	%REC	1	11/12/2019 16:59	159286
Surr: p-Terphenyl-d14	*	10-173		**108.9**	%REC	1	11/12/2019 16:59	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 17:01	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:01	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:01	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 17:01	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.7**	%REC	1	11/08/2019 17:01	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**96.5**	%REC	1	11/08/2019 17:01	159198
Surr: Dibromofluoromethane	*	84.9-113		**103.0**	%REC	1	11/08/2019 17:01	159198
Surr: Toluene-d8	*	86.7-112		**95.2**	%REC	1	11/08/2019 17:01	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-025 **Client Sample ID:** UMW-305-WG-20191105

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 17:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.008**	mg/L	1	11/12/2019 11:08	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:27	159166
Barium	NELAP	0.0025		**0.0910**	mg/L	1	11/12/2019 0:27	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:27	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:27	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:27	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:27	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:27	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 11:53	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Acenaphthylene	NELAP	0.000100	R	**ND**	mg/L	1	11/12/2019 17:38	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 17:38	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 17:38	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 17:38	159286
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 17:38	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 17:38	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 17:38	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**82.7**	%REC	1	11/12/2019 17:38	159286
Surr: Nitrobenzene-d5	*	15-163		**88.8**	%REC	1	11/12/2019 17:38	159286
Surr: p-Terphenyl-d14	*	10-173		**120.9**	%REC	1	11/12/2019 17:38	159286
RPD for MS/MSD was outside control limits due to sample composition.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 17:27	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:27	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:27	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 17:27	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.3**	%REC	1	11/08/2019 17:27	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.6**	%REC	1	11/08/2019 17:27	159198
Surr: Dibromofluoromethane	*	84.9-113		**104.0**	%REC	1	11/08/2019 17:27	159198
Surr: Toluene-d8	*	86.7-112		**94.5**	%REC	1	11/08/2019 17:27	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-026 **Client Sample ID:** UMW-306-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 8:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.018**	mg/L	1	11/12/2019 12:30	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:38	159166
Barium	NELAP	0.0025		**0.111**	mg/L	1	11/12/2019 0:38	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:38	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:38	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:38	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:38	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:38	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:34	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 19:31	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 19:31	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 19:31	159286
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 19:31	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 19:31	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 19:31	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**77.8**	%REC	1	11/12/2019 19:31	159286
Surr: Nitrobenzene-d5	*	15-163		**81.6**	%REC	1	11/12/2019 19:31	159286
Surr: p-Terphenyl-d14	*	10-173		**122.5**	%REC	1	11/12/2019 19:31	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 17:53	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:53	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 17:53	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 17:53	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**99.9**	%REC	1	11/08/2019 17:53	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.5**	%REC	1	11/08/2019 17:53	159198
Surr: Dibromofluoromethane	*	84.9-113		**102.5**	%REC	1	11/08/2019 17:53	159198
Surr: Toluene-d8	*	86.7-112		**93.7**	%REC	1	11/08/2019 17:53	159198

Client: ERM
Work Order: 19110533
Client Project: Champaign GW
Report Date: 15-Nov-2019
Lab ID: 19110533-027
Client Sample ID: UMW-307-WG-20191105
Matrix: GROUNDWATER
Collection Date: 11/05/2019 15:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.029**	mg/L	1	11/12/2019 11:56	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 0:53	159166
Barium	NELAP	0.0025		**0.105**	mg/L	1	11/12/2019 0:53	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 0:53	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 0:53	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 0:53	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 0:53	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 0:53	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 12:00	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 20:09	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 20:09	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/12/2019 20:09	159286
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 20:09	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/12/2019 20:09	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/12/2019 20:09	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**87.0**	%REC	1	11/12/2019 20:09	159286
Surr: Nitrobenzene-d5	*	15-163		**93.3**	%REC	1	11/12/2019 20:09	159286
Surr: p-Terphenyl-d14	*	10-173		**122.1**	%REC	1	11/12/2019 20:09	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 18:19	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:19	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:19	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 18:19	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.0**	%REC	1	11/08/2019 18:19	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.0**	%REC	1	11/08/2019 18:19	159198
Surr: Dibromofluoromethane	*	84.9-113		**104.9**	%REC	1	11/08/2019 18:19	159198
Surr: Toluene-d8	*	86.7-112		**93.7**	%REC	1	11/08/2019 18:19	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-028 **Client Sample ID:** UMW-308-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 13:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.012**	mg/L	1	11/12/2019 12:35	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 1:04	159166
Barium	NELAP	0.0025		**0.105**	mg/L	1	11/12/2019 1:04	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 1:04	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 1:04	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 1:04	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 1:04	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 1:04	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:36	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 11:26	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 11:26	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 11:26	159286
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 11:26	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/13/2019 11:26	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 11:26	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**81.8**	%REC	1	11/13/2019 11:26	159286
Surr: Nitrobenzene-d5	*	15-163		**88.8**	%REC	1	11/13/2019 11:26	159286
Surr: p-Terphenyl-d14	*	10-173		**115.4**	%REC	1	11/13/2019 11:26	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 18:46	159198
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:46	159198
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 18:46	159198
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 18:46	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.5**	%REC	1	11/08/2019 18:46	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.8**	%REC	1	11/08/2019 18:46	159198
Surr: Dibromofluoromethane	*	84.9-113		**102.2**	%REC	1	11/08/2019 18:46	159198
Surr: Toluene-d8	*	86.7-112		**93.1**	%REC	1	11/08/2019 18:46	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-029 **Client Sample ID:** DUP 001-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/12/2019 12:39	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 1:08	159166
Barium	NELAP	0.0025		**0.0316**	mg/L	1	11/12/2019 1:08	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 1:08	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 1:08	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 1:08	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 1:08	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 1:08	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 9:43	159199
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000427**	mg/L	1	11/13/2019 12:05	159286
Acenaphthylene	NELAP	0.000100		**0.000297**	mg/L	1	11/13/2019 12:05	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 12:05	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 12:05	159286
Fluorene	NELAP	0.000100		**0.000168**	mg/L	1	11/13/2019 12:05	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:05	159286
Naphthalene	NELAP	0.00500		**0.0391**	mg/L	25	11/14/2019 13:27	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/13/2019 12:05	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 12:05	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**85.1**	%REC	1	11/13/2019 12:05	159286
Surr: Nitrobenzene-d5	*	15-163		**93.9**	%REC	1	11/13/2019 12:05	159286
Surr: p-Terphenyl-d14	*	10-173		**108.4**	%REC	1	11/13/2019 12:05	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**91.6**	µg/L	1	11/08/2019 19:12	159198
Ethylbenzene	NELAP	2.0		**8.6**	µg/L	1	11/08/2019 19:12	159198
Toluene	NELAP	2.0		**48.9**	µg/L	1	11/08/2019 19:12	159198
Xylenes, Total	NELAP	4.0		**23.5**	µg/L	1	11/08/2019 19:12	159198
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.1**	%REC	1	11/08/2019 19:12	159198
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.2**	%REC	1	11/08/2019 19:12	159198
Surr: Dibromofluoromethane	*	84.9-113		**102.4**	%REC	1	11/08/2019 19:12	159198
Surr: Toluene-d8	*	86.7-112		**91.2**	%REC	1	11/08/2019 19:12	159198

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-030 **Client Sample ID:** DUP 002-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/12/2019 12:44	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 1:11	159166
Barium	NELAP	0.0025		**0.0265**	mg/L	1	11/12/2019 1:11	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 1:11	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 1:11	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 1:11	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 1:11	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 1:11	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 10:05	159201
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 12:45	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 12:45	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 12:45	159286
Naphthalene	NELAP	0.000200		**0.000250**	mg/L	1	11/13/2019 12:45	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/13/2019 12:45	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 12:45	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**85.3**	%REC	1	11/13/2019 12:45	159286
Surr: Nitrobenzene-d5	*	15-163		**87.4**	%REC	1	11/13/2019 12:45	159286
Surr: p-Terphenyl-d14	*	10-173		**123.3**	%REC	1	11/13/2019 12:45	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**12.5**	µg/L	1	11/08/2019 23:10	159233
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 23:10	159233
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 23:10	159233
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 23:10	159233
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**107.7**	%REC	1	11/08/2019 23:10	159233
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.4**	%REC	1	11/08/2019 23:10	159233
Surr: Dibromofluoromethane	*	84.9-113		**105.0**	%REC	1	11/08/2019 23:10	159233
Surr: Toluene-d8	*	86.7-112		**100.4**	%REC	1	11/08/2019 23:10	159233

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-031 **Client Sample ID:** DUP 003-WG-20191106

Matrix: GROUNDWATER **Collection Date:** 11/06/2019 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.138**	mg/L	5	11/12/2019 14:06	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 1:15	159166
Barium	NELAP	0.0025		**0.0544**	mg/L	1	11/12/2019 1:15	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 1:15	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 1:15	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 1:15	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 1:15	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 1:15	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 10:12	159201
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000575**	mg/L	1	11/13/2019 13:25	159286
Acenaphthylene	NELAP	0.000100		**0.000685**	mg/L	1	11/13/2019 13:25	159286
Anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 13:25	159286
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Chrysene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 13:25	159286
Fluorene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	11/13/2019 13:25	159286
Naphthalene	NELAP	0.200		**2.86**	mg/L	1000	11/14/2019 16:44	159286
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	11/13/2019 13:25	159286
Pyrene	NELAP	0.000200		**ND**	mg/L	1	11/13/2019 13:25	159286
Surr: 2-Fluorobiphenyl	*	21.4-142		**74.0**	%REC	100	11/14/2019 12:48	159286
Surr: Nitrobenzene-d5	*	15-163		**78.0**	%REC	100	11/14/2019 12:48	159286
Surr: p-Terphenyl-d14	*	10-173		**106.6**	%REC	1	11/13/2019 13:25	159286
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	50.0		**372**	µg/L	100	11/11/2019 20:03	159287
Ethylbenzene	NELAP	200		**863**	µg/L	100	11/11/2019 20:03	159287
Toluene	NELAP	2.0		**7.8**	µg/L	1	11/08/2019 23:36	159233
Xylenes, Total	NELAP	400		**ND**	µg/L	100	11/11/2019 20:03	159287
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**110.0**	%REC	1	11/08/2019 23:36	159233
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.2**	%REC	1	11/08/2019 23:36	159233
Surr: Dibromofluoromethane	*	84.9-113		**106.2**	%REC	1	11/08/2019 23:36	159233
Surr: Toluene-d8	*	86.7-112		**101.0**	%REC	1	11/08/2019 23:36	159233

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

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Lab ID: 19110533-032 **Client Sample ID:** EB-01-WQ-201911

Matrix: GROUNDWATER **Collection Date:** 11/05/2019 7:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/12/2019 13:18	159262
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	11/12/2019 1:19	159166
Barium	NELAP	0.0025		**< 0.0025**	mg/L	1	11/12/2019 1:19	159166
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2019 1:19	159166
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2019 1:19	159166
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2019 1:19	159166
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	11/12/2019 1:19	159166
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	11/12/2019 1:19	159166
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/11/2019 12:07	159179
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Acenaphthylene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Anthracene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Benzo(a)anthracene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Benzo(a)pyrene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Benzo(b)fluoranthene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Benzo(g,h,i)perylene	NELAP	0.000200	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Benzo(k)fluoranthene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Chrysene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Dibenzo(a,h)anthracene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Fluoranthene	NELAP	0.000200	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Fluorene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Indeno(1,2,3-cd)pyrene	NELAP	0.000100	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Naphthalene	NELAP	0.000200	H	**0.00258**	mg/L	1	11/13/2019 14:05	159286
Phenanthrene	NELAP	0.000400	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Pyrene	NELAP	0.000200	H	**ND**	mg/L	1	11/13/2019 14:05	159286
Surr: 2-Fluorobiphenyl	*	21.4-142	H	**79.8**	%REC	1	11/13/2019 14:05	159286
Surr: Nitrobenzene-d5	*	15-163	H	**85.6**	%REC	1	11/13/2019 14:05	159286
Surr: p-Terphenyl-d14	*	10-173	H	**112.0**	%REC	1	11/13/2019 14:05	159286
Sample analysis did not meet hold time requirements.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 10:53	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 10:53	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 10:53	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 10:53	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**88.5**	%REC	1	11/08/2019 10:53	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**93.3**	%REC	1	11/08/2019 10:53	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.4**	%REC	1	11/08/2019 10:53	159224
Surr: Toluene-d8	*	86.7-112		**94.3**	%REC	1	11/08/2019 10:53	159224

Client: ERM
Work Order: 19110533
Client Project: Champaign GW
Report Date: 15-Nov-2019
Lab ID: 19110533-033
Client Sample ID: TB-01-WQ-201911
Matrix: TRIP BLANK
Collection Date: 11/07/2019 15:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	11/08/2019 11:21	159224
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 11:21	159224
Toluene	NELAP	2.0		**ND**	µg/L	1	11/08/2019 11:21	159224
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	11/08/2019 11:21	159224
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**89.0**	%REC	1	11/08/2019 11:21	159224
Surr: 4-Bromofluorobenzene	*	83.9-115		**94.7**	%REC	1	11/08/2019 11:21	159224
Surr: Dibromofluoromethane	*	84.9-113		**102.2**	%REC	1	11/08/2019 11:21	159224
Surr: Toluene-d8	*	86.7-112		**95.0**	%REC	1	11/08/2019 11:21	159224

Client: ERM
Client Project: Champaign GW

Work Order: 19110533
Report Date: 15-Nov-2019

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
19110533-001	UMW-102-WG-20191106	Groundwater	4	11/06/2019 11:00
19110533-002	UMW-105-WG-20191106	Groundwater	4	11/06/2019 13:30
19110533-003	UMW-106R-WG-20191105	Groundwater	4	11/05/2019 14:50
19110533-004	UMW-107R-WG-20191105	Groundwater	4	11/05/2019 13:50
19110533-005	UMW-108-WG-20191105	Groundwater	4	11/05/2019 8:30
19110533-006	UMW-109-WG-20191105	Groundwater	4	11/05/2019 10:00
19110533-007	UMW-111A-WG-20191104	Groundwater	4	11/04/2019 16:50
19110533-008	UMW-116-WG-20191105	Groundwater	4	11/05/2019 13:30
19110533-009	UMW-117-WG-20191105	Groundwater	4	11/05/2019 9:50
19110533-010	UMW-118-WG-20191105	Groundwater	4	11/05/2019 11:15
19110533-011	UMW-119-WG-20191104	Groundwater	4	11/04/2019 15:50
19110533-012	UMW-120-WG20191104	Groundwater	4	11/04/2019 15:45
19110533-013	UMW-121-WG-20191106	Groundwater	4	11/06/2019 14:05
19110533-014	UMW-122-WG-20191105	Groundwater	4	11/05/2019 15:00
19110533-015	UMW-123-WG-20191105	Groundwater	4	11/05/2019 17:15
19110533-016	UMW-124-WG-20191106	Groundwater	4	11/06/2019 14:30
19110533-017	UMW-125-WG-20191106	Groundwater	4	11/06/2019 7:50
19110533-018	UMW-126-WG-20191106	Groundwater	4	11/06/2019 15:20
19110533-019	UMW-127-WG-20191106	Groundwater	4	11/06/2019 9:05
19110533-020	UMW-300-WG-20191104	Groundwater	4	11/04/2019 16:50
19110533-021	UMW-301R-WG-20191106	Groundwater	4	11/06/2019 12:15
19110533-022	UMW-302-WG-20191106	Groundwater	4	11/06/2019 14:45
19110533-023	UMW-303-WG-20191105	Groundwater	4	11/05/2019 11:05
19110533-024	UMW-304R-WG-20191106	Groundwater	4	11/06/2019 10:50
19110533-025	UMW-305-WG-20191105	Groundwater	4	11/05/2019 17:10
19110533-026	UMW-306-WG-20191106	Groundwater	4	11/06/2019 8:20
19110533-027	UMW-307-WG-20191105	Groundwater	4	11/05/2019 15:45
19110533-028	UMW-308-WG-20191106	Groundwater	4	11/06/2019 13:20
19110533-029	DUP 001-WG-20191106	Groundwater	4	11/06/2019 0:00
19110533-030	DUP 002-WG-20191106	Groundwater	4	11/06/2019 0:00
19110533-031	DUP 003-WG-20191106	Groundwater	4	11/06/2019 0:00
19110533-032	EB-01-WQ-201911	Groundwater	4	11/05/2019 7:30
19110533-033	TB-01-WQ-201911	Trip Blank	1	11/07/2019 15:50

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19110533-001A	UMW-102-WG-20191106	11/06/2019 11:00	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 17:17
19110533-001B	UMW-102-WG-20191106	11/06/2019 11:00	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:08
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 8:58
19110533-001C	UMW-102-WG-20191106	11/06/2019 11:00	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 17:30
19110533-001D	UMW-102-WG-20191106	11/06/2019 11:00	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 14:00
19110533-002A	UMW-105-WG-20191106	11/06/2019 13:30	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 17:54
19110533-002B	UMW-105-WG-20191106	11/06/2019 13:30	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:11
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:09
19110533-002C	UMW-105-WG-20191106	11/06/2019 13:30	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 13:33	11/12/2019 13:40
19110533-002D	UMW-105-WG-20191106	11/06/2019 13:30	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 14:26
19110533-003A	UMW-106R-WG-20191105	11/05/2019 14:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 18:32
19110533-003B	UMW-106R-WG-20191105	11/05/2019 14:50	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:15
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:22
19110533-003C	UMW-106R-WG-20191105	11/05/2019 14:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 17:38
19110533-003D	UMW-106R-WG-20191105	11/05/2019 14:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 14:53
19110533-004A	UMW-107R-WG-20191105	11/05/2019 13:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 19:10
19110533-004B	UMW-107R-WG-20191105	11/05/2019 13:50	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:30
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:24
19110533-004C	UMW-107R-WG-20191105	11/05/2019 13:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 13:33	11/12/2019 13:48
19110533-004D	UMW-107R-WG-20191105	11/05/2019 13:50	11/07/2019 15:50		

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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				11/08/2019 15:20
19110533-005A	UMW-108-WG-20191105	11/05/2019 8:30	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 19:48
19110533-005B	UMW-108-WG-20191105	11/05/2019 8:30	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:33
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:26
19110533-005C	UMW-108-WG-20191105	11/05/2019 8:30	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 17:51
19110533-005D	UMW-108-WG-20191105	11/05/2019 8:30	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 15:47
19110533-006A	UMW-109-WG-20191105	11/05/2019 10:00	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 20:25
19110533-006B	UMW-109-WG-20191105	11/05/2019 10:00	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:37
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:29
19110533-006C	UMW-109-WG-20191105	11/05/2019 10:00	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 15:02
19110533-006D	UMW-109-WG-20191105	11/05/2019 10:00	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 16:15
19110533-007A	UMW-111A-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 21:03
19110533-007B	UMW-111A-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:41
	SW-846 7470A (Total)			11/08/2019 10:36	11/11/2019 13:19
19110533-007C	UMW-111A-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 17:56
19110533-007D	UMW-111A-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 16:42
19110533-008A	UMW-116-WG-20191105	11/05/2019 13:30	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 21:41
19110533-008B	UMW-116-WG-20191105	11/05/2019 13:30	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:44
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:31
19110533-008C	UMW-116-WG-20191105	11/05/2019 13:30	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 18:00

Client: ERM **Work Order:** 19110533

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Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19110533-008D	UMW-116-WG-20191105	11/05/2019 13:30	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 17:10
19110533-009A	UMW-117-WG-20191105	11/05/2019 9:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 9:22	11/11/2019 22:18
19110533-009B	UMW-117-WG-20191105	11/05/2019 9:50	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:48
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:33
19110533-009C	UMW-117-WG-20191105	11/05/2019 9:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 18:09
19110533-009D	UMW-117-WG-20191105	11/05/2019 9:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 17:37
19110533-010A	UMW-118-WG-20191105	11/05/2019 11:15	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 0:49
19110533-010B	UMW-118-WG-20191105	11/05/2019 11:15	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:52
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:35
19110533-010C	UMW-118-WG-20191105	11/05/2019 11:15	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 18:13
19110533-010D	UMW-118-WG-20191105	11/05/2019 11:15	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 18:05
19110533-011A	UMW-119-WG-20191104	11/04/2019 15:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 1:27
19110533-011B	UMW-119-WG-20191104	11/04/2019 15:50	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 22:55
	SW-846 7470A (Total)			11/08/2019 10:36	11/11/2019 13:26
19110533-011C	UMW-119-WG-20191104	11/04/2019 15:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 18:17
19110533-011D	UMW-119-WG-20191104	11/04/2019 15:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 18:32
19110533-012A	UMW-120-WG20191104	11/04/2019 15:45	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 2:05
19110533-012B	UMW-120-WG20191104	11/04/2019 15:45	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:56	11/11/2019 23:21
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:37
19110533-012C	UMW-120-WG20191104	11/04/2019 15:45	11/07/2019 15:50		

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 15:20
19110533-012D	UMW-120-WG20191104	11/04/2019 15:45	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 19:00
19110533-013A	UMW-121-WG-20191106	11/06/2019 14:05	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 2:42
19110533-013B	UMW-121-WG-20191106	11/06/2019 14:05	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/11/2019 23:32
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:11
19110533-013C	UMW-121-WG-20191106	11/06/2019 14:05	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 13:33	11/12/2019 13:57
19110533-013D	UMW-121-WG-20191106	11/06/2019 14:05	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 12:18
19110533-014A	UMW-122-WG-20191105	11/05/2019 15:00	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 3:20
19110533-014B	UMW-122-WG-20191105	11/05/2019 15:00	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/11/2019 23:36
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:40
19110533-014C	UMW-122-WG-20191105	11/05/2019 15:00	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 18:48
19110533-014D	UMW-122-WG-20191105	11/05/2019 15:00	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 12:43
19110533-015A	UMW-123-WG-20191105	11/05/2019 17:15	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 3:58
19110533-015B	UMW-123-WG-20191105	11/05/2019 17:15	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/11/2019 23:39
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:46
19110533-015C	UMW-123-WG-20191105	11/05/2019 17:15	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 18:52
19110533-015D	UMW-123-WG-20191105	11/05/2019 17:15	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 13:09
19110533-016A	UMW-124-WG-20191106	11/06/2019 14:30	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 4:35
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 20:47
19110533-016B	UMW-124-WG-20191106	11/06/2019 14:30	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/11/2019 23:43

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:13
19110533-016C	UMW-124-WG-20191106	11/06/2019 14:30	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 18:56
19110533-016D	UMW-124-WG-20191106	11/06/2019 14:30	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 13:35
19110533-017A	UMW-125-WG-20191106	11/06/2019 7:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 5:13
19110533-017B	UMW-125-WG-20191106	11/06/2019 7:50	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/11/2019 23:47
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:16
19110533-017C	UMW-125-WG-20191106	11/06/2019 7:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 13:33	11/12/2019 14:01
19110533-017D	UMW-125-WG-20191106	11/06/2019 7:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 14:01
19110533-018A	UMW-126-WG-20191106	11/06/2019 15:20	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 5:51
19110533-018B	UMW-126-WG-20191106	11/06/2019 15:20	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/11/2019 23:50
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:18
19110533-018C	UMW-126-WG-20191106	11/06/2019 15:20	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 19:09
19110533-018D	UMW-126-WG-20191106	11/06/2019 15:20	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 14:26
19110533-019A	UMW-127-WG-20191106	11/06/2019 9:05	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 6:28
19110533-019B	UMW-127-WG-20191106	11/06/2019 9:05	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:05
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:20
19110533-019C	UMW-127-WG-20191106	11/06/2019 9:05	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 19:14
19110533-019D	UMW-127-WG-20191106	11/06/2019 9:05	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 14:52
19110533-020A	UMW-300-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/11/2019 13:06	11/12/2019 7:06
19110533-020B	UMW-300-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:09
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:49
19110533-020C	UMW-300-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/08/2019 16:26	11/11/2019 19:18
19110533-020D	UMW-300-WG-20191104	11/04/2019 16:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 15:18
19110533-021A	UMW-301R-WG-20191106	11/06/2019 12:15	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/12/2019 15:04
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/14/2019 11:32
19110533-021B	UMW-301R-WG-20191106	11/06/2019 12:15	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:12
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:22
19110533-021C	UMW-301R-WG-20191106	11/06/2019 12:15	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 11:30
19110533-021D	UMW-301R-WG-20191106	11/06/2019 12:15	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 15:44
19110533-022A	UMW-302-WG-20191106	11/06/2019 14:45	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/12/2019 15:42
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/14/2019 12:10
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/15/2019 9:47
19110533-022B	UMW-302-WG-20191106	11/06/2019 14:45	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:16
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:25
19110533-022C	UMW-302-WG-20191106	11/06/2019 14:45	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 13:35
19110533-022D	UMW-302-WG-20191106	11/06/2019 14:45	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 16:09
19110533-023A	UMW-303-WG-20191105	11/05/2019 11:05	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/12/2019 16:21
19110533-023B	UMW-303-WG-20191105	11/05/2019 11:05	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:20
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:51
19110533-023C	UMW-303-WG-20191105	11/05/2019 11:05	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 12:17
19110533-023D	UMW-303-WG-20191105	11/05/2019 11:05	11/07/2019 15:50		

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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				11/08/2019 16:35
19110533-024A	UMW-304R-WG-20191106	11/06/2019 10:50	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/12/2019 16:59
19110533-024B	UMW-304R-WG-20191106	11/06/2019 10:50	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:23
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:31
19110533-024C	UMW-304R-WG-20191106	11/06/2019 10:50	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 12:22
19110533-024D	UMW-304R-WG-20191106	11/06/2019 10:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 17:01
19110533-025A	UMW-305-WG-20191105	11/05/2019 17:10	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/12/2019 17:38
19110533-025B	UMW-305-WG-20191105	11/05/2019 17:10	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:27
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 11:53
19110533-025C	UMW-305-WG-20191105	11/05/2019 17:10	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 11:08
19110533-025D	UMW-305-WG-20191105	11/05/2019 17:10	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 17:27
19110533-026A	UMW-306-WG-20191106	11/06/2019 8:20	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/12/2019 19:31
19110533-026B	UMW-306-WG-20191106	11/06/2019 8:20	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:38
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:34
19110533-026C	UMW-306-WG-20191106	11/06/2019 8:20	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 12:30
19110533-026D	UMW-306-WG-20191106	11/06/2019 8:20	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 17:53
19110533-027A	UMW-307-WG-20191105	11/05/2019 15:45	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 9:54	11/12/2019 20:09
19110533-027B	UMW-307-WG-20191105	11/05/2019 15:45	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 0:53
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 12:00
19110533-027C	UMW-307-WG-20191105	11/05/2019 15:45	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 11:56

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19110533-027D	UMW-307-WG-20191105	11/05/2019 15:45	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 18:19
19110533-028A	UMW-308-WG-20191106	11/06/2019 13:20	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/13/2019 11:26
19110533-028B	UMW-308-WG-20191106	11/06/2019 13:20	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 1:04
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:36
19110533-028C	UMW-308-WG-20191106	11/06/2019 13:20	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 12:35
19110533-028D	UMW-308-WG-20191106	11/06/2019 13:20	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 18:46
19110533-029A	DUP 001-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/13/2019 12:05
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/14/2019 13:27
19110533-029B	DUP 001-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 1:08
	SW-846 7470A (Total)			11/08/2019 14:19	11/11/2019 9:43
19110533-029C	DUP 001-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 12:39
19110533-029D	DUP 001-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 19:12
19110533-030A	DUP 002-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/13/2019 12:45
19110533-030B	DUP 002-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 1:11
	SW-846 7470A (Total)			11/08/2019 14:34	11/11/2019 10:05
19110533-030C	DUP 002-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 12:44
19110533-030D	DUP 002-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 23:10
19110533-031A	DUP 003-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/13/2019 13:25
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/14/2019 12:48
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/14/2019 16:44
19110533-031B	DUP 003-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 1:15
	SW-846 7470A (Total)			11/08/2019 14:34	11/11/2019 10:12
19110533-031C	DUP 003-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 14:06
19110533-031D	DUP 003-WG-20191106	11/06/2019 0:00	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 23:36
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/11/2019 20:03
19110533-032A	EB-01-WQ-201911	11/05/2019 7:30	11/07/2019 15:50		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			11/12/2019 14:13	11/13/2019 14:05
19110533-032B	EB-01-WQ-201911	11/05/2019 7:30	11/07/2019 15:50		
	SW-846 3005A, 6010B, Metals by ICP (Total)			11/08/2019 8:58	11/12/2019 1:19
	SW-846 7470A (Total)			11/08/2019 10:40	11/11/2019 12:07
19110533-032C	EB-01-WQ-201911	11/05/2019 7:30	11/07/2019 15:50		
	SW-846 9012A (Total)			11/11/2019 17:50	11/12/2019 13:18
19110533-032D	EB-01-WQ-201911	11/05/2019 7:30	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 10:53
19110533-033A	TB-01-WQ-201911	11/07/2019 15:50	11/07/2019 15:50		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				11/08/2019 11:21

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

SW-846 9012A (TOTAL)

Batch 159194 **SampType: MBLK** Units **mg/L**
SampID: MBLK 191108 TCN2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**< 0.005**	0.003000	0	0	-100	100	11/11/2019

Batch 159194 **SampType: LCS** Units **mg/L**
SampID: LCS 191108 TCN2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.028**	0.02500	0	110.7	85	115	11/11/2019

Batch 159194 **SampType: MS** Units **mg/L**
SampID: 19110533-006CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005	E	**0.056**	0.02500	0.02966	104.7	75	125	11/11/2019

Batch 159194 **SampType: MSD** Units **mg/L** RPD Limit **15**
SampID: 19110533-006CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005	E	**0.056**	0.02500	0.02966	105.1	0.05584	0.21	11/11/2019

Batch 159194 **SampType: MS** Units **mg/L**
SampID: 19110533-012CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.029**	0.02500	0	114.2	75	125	11/11/2019

Batch 159194 **SampType: MSD** Units **mg/L** RPD Limit **15**
SampID: 19110533-012CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005		**0.028**	0.02500	0	112.0	0.02854	1.91	11/11/2019

Batch 159262 **SampType: MBLK** Units **mg/L**
SampID: MBLK 191111 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**< 0.005**	0.003000	0	0	-100	100	11/12/2019

Batch 159262 **SampType: LCS** Units **mg/L**
SampID: LCS 191111 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.027**	0.02500	0	106.2	90	110	11/12/2019

Batch 159262 **SampType: MS** Units **mg/L**
SampID: 19110533-025CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.034**	0.02500	0.007935	102.7	75	125	11/12/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

SW-846 9012A (TOTAL)

Batch 159262 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19110533-025CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005		**0.035**	0.02500	0.007935	108.9	0.03362	4.46	11/12/2019

Batch 159262 **SampType:** MS Units **mg/L**

SampID: 19110533-027CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005	E	**0.055**	0.02500	0.02946	104.0	75	125	11/12/2019

Batch 159262 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19110533-027CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005	E	**0.057**	0.02500	0.02946	108.9	0.05545	2.19	11/12/2019

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 159165 **SampType:** MBLK Units **mg/L**

SampID: MBLK-159165

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**< 0.0250**	0.00870(	0	0	-100	100	11/11/2019
Barium	0.0025		**< 0.0025**	0.00070(	0	0	-100	100	11/11/2019
Cadmium	0.0020		**< 0.0020**	0.00050(	0	0	-100	100	11/11/2019
Chromium	0.0050		**< 0.0050**	0.00280(	0	0	-100	100	11/11/2019
Lead	0.0150		**< 0.0150**	0.00140(	0	0	-100	100	11/11/2019
Selenium	0.0400		**< 0.0400**	0.01700	0	0	-100	100	11/11/2019
Silver	0.0070		**< 0.0070**	0.00270(	0	0	-100	100	11/11/2019

Batch 159165 **SampType:** LCS Units **mg/L**

SampID: LCS-159165

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.487**	0.5000	0	97.3	85	115	11/11/2019
Barium	0.0025		**1.93**	2.000	0	96.3	85	115	11/11/2019
Cadmium	0.0020		**0.0487**	0.05000	0	97.4	85	115	11/11/2019
Chromium	0.0050		**0.201**	0.2000	0	100.5	85	115	11/11/2019
Lead	0.0150		**0.498**	0.5000	0	99.6	85	115	11/11/2019
Selenium	0.0400		**0.494**	0.5000	0	98.8	85	115	11/11/2019
Silver	0.0070		**0.0478**	0.05000	0	95.6	85	115	11/11/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 159165 **SampType:** MS Units **mg/L**

SampID: 19110533-012BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.474**	0.5000	0	94.8	75	125	11/11/2019
Barium	0.0025		**1.89**	2.000	0.03110	92.9	75	125	11/11/2019
Cadmium	0.0020		**0.0465**	0.05000	0	93.0	75	125	11/11/2019
Chromium	0.0050		**0.194**	0.2000	0	96.9	75	125	11/11/2019
Lead	0.0150		**0.474**	0.5000	0	94.8	75	125	11/11/2019
Selenium	0.0400		**0.476**	0.5000	0	95.2	75	125	11/11/2019
Silver	0.0070		**0.0468**	0.05000	0	93.6	75	125	11/11/2019

Batch 159165 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19110533-012BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.476**	0.5000	0	95.1	0.4739	0.34	11/11/2019
Barium	0.0025		**1.90**	2.000	0.03110	93.6	1.890	0.74	11/11/2019
Cadmium	0.0020		**0.0468**	0.05000	0	93.6	0.04650	0.64	11/11/2019
Chromium	0.0050		**0.196**	0.2000	0	98.0	0.1938	1.08	11/11/2019
Lead	0.0150		**0.479**	0.5000	0	95.7	0.4740	0.99	11/11/2019
Selenium	0.0400		**0.480**	0.5000	0	95.9	0.4758	0.80	11/11/2019
Silver	0.0070		**0.0472**	0.05000	0	94.4	0.04680	0.85	11/11/2019

Batch 159166 **SampType:** MBLK Units **mg/L**

SampID: MBLK-159166

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**< 0.0250**	0.00870(	0	0	-100	100	11/11/2019
Barium	0.0025		**< 0.0025**	.000700	0	0	-100	100	11/11/2019
Cadmium	0.0020		**< 0.0020**	.000500	0	0	-100	100	11/11/2019
Chromium	0.0050		**< 0.0050**	0.00280(	0	0	-100	100	11/11/2019
Lead	0.0150		**< 0.0150**	0.00140(	0	0	-100	100	11/11/2019
Selenium	0.0400		**< 0.0400**	0.01700	0	0	-100	100	11/11/2019
Silver	0.0070		**< 0.0070**	0.00270(	0	0	-100	100	11/11/2019

Batch 159166 **SampType:** LCS Units **mg/L**

SampID: LCS-159166

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.475**	0.5000	0	95.0	85	115	11/11/2019
Barium	0.0025		**1.87**	2.000	0	93.4	85	115	11/11/2019
Cadmium	0.0020		**0.0471**	0.05000	0	94.2	85	115	11/11/2019
Chromium	0.0050		**0.195**	0.2000	0	97.4	85	115	11/11/2019
Lead	0.0150		**0.478**	0.5000	0	95.6	85	115	11/11/2019
Selenium	0.0400		**0.474**	0.5000	0	94.8	85	115	11/11/2019
Silver	0.0070		**0.0466**	0.05000	0	93.2	85	115	11/11/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 159166 **SampType:** MS Units **mg/L**

SampID: 19110533-025BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.478**	0.5000	0	95.7	75	125	11/12/2019
Barium	0.0025		**1.98**	2.000	0.09100	94.4	75	125	11/12/2019
Cadmium	0.0020		**0.0464**	0.05000	0	92.8	75	125	11/12/2019
Chromium	0.0050		**0.194**	0.2000	0	97.1	75	125	11/12/2019
Lead	0.0150		**0.474**	0.5000	0	94.8	75	125	11/12/2019
Selenium	0.0400		**0.475**	0.5000	0	95.1	75	125	11/12/2019
Silver	0.0070		**0.0474**	0.05000	0	94.8	75	125	11/12/2019

Batch 159166 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19110533-025BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.472**	0.5000	0	94.4	0.4783	1.30	11/12/2019
Barium	0.0025		**1.94**	2.000	0.09100	92.7	1.978	1.68	11/12/2019
Cadmium	0.0020		**0.0459**	0.05000	0	91.8	0.04640	1.08	11/12/2019
Chromium	0.0050		**0.193**	0.2000	0	96.4	0.1942	0.72	11/12/2019
Lead	0.0150		**0.467**	0.5000	0	93.4	0.4742	1.55	11/12/2019
Selenium	0.0400		**0.467**	0.5000	0	93.3	0.4754	1.87	11/12/2019
Silver	0.0070		**0.0467**	0.05000	0	93.4	0.04740	1.49	11/12/2019

Batch 159166 **SampType:** MS Units **mg/L**

SampID: 19110533-027BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.468**	0.5000	0	93.5	75	125	11/12/2019
Barium	0.0025		**1.96**	2.000	0.1052	92.9	75	125	11/12/2019
Cadmium	0.0020		**0.0459**	0.05000	0	91.8	75	125	11/12/2019
Chromium	0.0050		**0.193**	0.2000	0	96.4	75	125	11/12/2019
Lead	0.0150		**0.467**	0.5000	0	93.3	75	125	11/12/2019
Selenium	0.0400		**0.465**	0.5000	0	93.1	75	125	11/12/2019
Silver	0.0070		**0.0471**	0.05000	0	94.2	75	125	11/12/2019

Batch 159166 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19110533-027BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.470**	0.5000	0	94.0	0.4676	0.51	11/12/2019
Barium	0.0025		**1.96**	2.000	0.1052	92.5	1.964	0.46	11/12/2019
Cadmium	0.0020		**0.0456**	0.05000	0	91.2	0.04590	0.66	11/12/2019
Chromium	0.0050		**0.192**	0.2000	0	95.9	0.1927	0.47	11/12/2019
Lead	0.0150		**0.466**	0.5000	0	93.3	0.4666	0.04	11/12/2019
Selenium	0.0400		**0.468**	0.5000	0	93.5	0.4653	0.51	11/12/2019
Silver	0.0070		**0.0465**	0.05000	0	93.0	0.04710	1.28	11/12/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

SW-846 7470A (TOTAL)

Batch 159178 **SampType:** MBLK Units **mg/L**
SampID: MBLK-159178

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**< 0.00020**	000055(	0	0	-100	100	11/11/2019

Batch 159178 **SampType:** LCS Units **mg/L**
SampID: LCS-159178

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00492**	).00500(	0	98.5	85	115	11/11/2019

Batch 159178 **SampType:** MS Units **mg/L**
SampID: 19110533-007BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00511**	).00500(	0	102.3	75	125	11/11/2019

Batch 159178 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 19110533-007BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00516**	).00500(	0	103.2	0.005114	0.91	11/11/2019

Batch 159179 **SampType:** MBLK Units **mg/L**
SampID: MBLK-159179

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**< 0.00020**	000055(	0	0	-100	100	11/11/2019

Batch 159179 **SampType:** LCS Units **mg/L**
SampID: LCS-159179

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00500**	).00500(	0	100.0	85	115	11/11/2019

Batch 159179 **SampType:** MS Units **mg/L**
SampID: 19110533-025BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00499**	).00500(	0	99.9	75	125	11/11/2019

Batch 159179 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 19110533-025BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00485**	).00500(	0	97.0	0.004993	2.86	11/11/2019

Batch 159179 **SampType:** MS Units **mg/L**
SampID: 19110533-027BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00486**	).00500(	0	97.3	75	125	11/11/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

SW-846 7470A (TOTAL)

Batch 159179 **SampType: MSD** Units **mg/L** RPD Limit **15**

SampID: 19110533-027BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00479**	0.00500	0	95.8	0.004865	1.56	11/11/2019

Batch 159199 **SampType: MBLK** Units **mg/L**

SampID: MBLK-159199

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**< 0.00020**	0.00500	0	0	-100	100	11/11/2019

Batch 159199 **SampType: LCS** Units **mg/L**

SampID: LCS-159199

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00504**	0.00500	0	100.7	85	115	11/11/2019

Batch 159199 **SampType: MS** Units **mg/L**

SampID: 19110533-001BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00494**	0.00500	0	98.9	75	125	11/11/2019

Batch 159199 **SampType: MSD** Units **mg/L** RPD Limit **15**

SampID: 19110533-001BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00487**	0.00500	0	97.4	0.004945	1.56	11/11/2019

Batch 159199 **SampType: MS** Units **mg/L**

SampID: 19110533-028BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00508**	0.00500	0	101.5	75	125	11/11/2019

Batch 159199 **SampType: MSD** Units **mg/L** RPD Limit **15**

SampID: 19110533-028BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00491**	0.00500	0	98.2	0.005077	3.35	11/11/2019

Batch 159201 **SampType: MBLK** Units **mg/L**

SampID: MBLK-159201

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**< 0.00020**	0.00500	0	0	-100	100	11/11/2019

Batch 159201 **SampType: LCS** Units **mg/L**

SampID: LCS-159201

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00507**	0.00500	0	101.5	85	115	11/11/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

SW-846 7470A (TOTAL)

Batch 159201 **SampType:** MS Units **mg/L**

SampID: 19110533-030BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00492**	0.00500	0	98.4	75	125	11/11/2019

Batch 159201 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19110533-030BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00503**	0.00500	0	100.7	0.004922	2.21	11/11/2019

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

Batch 159229 **SampType:** MBLK Units **mg/L**

SampID: MBLK-159229

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						11/11/2019
Acenaphthylene	0.000100		**ND**						11/11/2019
Anthracene	0.000100		**ND**						11/11/2019
Benzo(a)anthracene	0.000100		**ND**						11/11/2019
Benzo(a)pyrene	0.000100		**ND**						11/11/2019
Benzo(b)fluoranthene	0.000100		**ND**						11/11/2019
Benzo(g,h,i)perylene	0.000200		**ND**						11/11/2019
Benzo(k)fluoranthene	0.000100		**ND**						11/11/2019
Chrysene	0.000100		**ND**						11/11/2019
Dibenzo(a,h)anthracene	0.000100		**ND**						11/11/2019
Fluoranthene	0.000200		**ND**						11/11/2019
Fluorene	0.000100		**ND**						11/11/2019
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						11/11/2019
Naphthalene	0.000200		**ND**						11/11/2019
Phenanthrene	0.000400		**ND**						11/11/2019
Pyrene	0.000200		**ND**						11/11/2019
Surr: 2-Fluorobiphenyl			**0.000989**	0.00100		98.9	30	133	11/11/2019
Surr: Nitrobenzene-d5			**0.000999**	0.00100		99.9	39.8	123	11/11/2019
Surr: p-Terphenyl-d14			**0.00136**	0.00100		135.9	48.1	144	11/11/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159229 **SampType:** LCS Units **mg/L**

SampID: LCS-159229

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00183**	0.00200	0	91.3	46.9	113	11/11/2019
Acenaphthylene	0.000100		**0.00234**	0.00200	0	116.9	45.9	129	11/11/2019
Anthracene	0.000100		**0.00197**	0.00200	0	98.7	48.5	117	11/11/2019
Benzo(a)anthracene	0.000100		**0.00193**	0.00200	0	96.6	51.2	117	11/11/2019
Benzo(a)pyrene	0.000100		**0.00217**	0.00200	0	108.7	48.1	127	11/11/2019
Benzo(b)fluoranthene	0.000100		**0.00210**	0.00200	0	104.9	38.1	135	11/11/2019
Benzo(g,h,i)perylene	0.000200		**0.00219**	0.00200	0	109.7	46.5	132	11/11/2019
Benzo(k)fluoranthene	0.000100		**0.00188**	0.00200	0	93.8	47.5	126	11/11/2019
Chrysene	0.000100		**0.00203**	0.00200	0	101.4	50.6	121	11/11/2019
Dibenzo(a,h)anthracene	0.000100		**0.00237**	0.00200	0	118.3	49.2	137	11/11/2019
Fluoranthene	0.000200		**0.00213**	0.00200	0	106.7	48.8	124	11/11/2019
Fluorene	0.000100		**0.00199**	0.00200	0	99.3	45.5	123	11/11/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00235**	0.00200	0	117.6	37.1	143	11/11/2019
Naphthalene	0.000200		**0.00178**	0.00200	0	88.9	18.5	145	11/11/2019
Phenanthrene	0.000400		**0.00218**	0.00200	0	108.8	44.7	131	11/11/2019
Pyrene	0.000200		**0.00210**	0.00200	0	105.1	47.5	123	11/11/2019
Surr: 2-Fluorobiphenyl			**0.000993**	0.00100		99.3	30	133	11/11/2019
Surr: Nitrobenzene-d5			**0.00107**	0.00100		107.2	39.8	123	11/11/2019
Surr: p-Terphenyl-d14			**0.00130**	0.00100		130.1	48.1	144	11/11/2019

Batch 159229 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-159229

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00173**	0.00200	0	86.4	0.001825	5.49	11/11/2019
Acenaphthylene	0.000100		**0.00215**	0.00200	0	107.3	0.002338	8.54	11/11/2019
Anthracene	0.000100		**0.00176**	0.00200	0	88.0	0.001975	11.46	11/11/2019
Benzo(a)anthracene	0.000100		**0.00183**	0.00200	0	91.6	0.001932	5.37	11/11/2019
Benzo(a)pyrene	0.000100		**0.00211**	0.00200	0	105.5	0.002174	2.97	11/11/2019
Benzo(b)fluoranthene	0.000100		**0.00205**	0.00200	0	102.4	0.002097	2.34	11/11/2019
Benzo(g,h,i)perylene	0.000200		**0.00215**	0.00200	0	107.3	0.002195	2.21	11/11/2019
Benzo(k)fluoranthene	0.000100		**0.00186**	0.00200	0	93.0	0.001876	0.88	11/11/2019
Chrysene	0.000100		**0.00192**	0.00200	0	95.8	0.002028	5.74	11/11/2019
Dibenzo(a,h)anthracene	0.000100		**0.00229**	0.00200	0	114.3	0.002366	3.48	11/11/2019
Fluoranthene	0.000200		**0.00197**	0.00200	0	98.4	0.002134	8.06	11/11/2019
Fluorene	0.000100		**0.00192**	0.00200	0	96.0	0.001987	3.38	11/11/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00234**	0.00200	0	116.8	0.002353	0.76	11/11/2019
Naphthalene	0.000200		**0.00165**	0.00200	0	82.7	0.001778	7.24	11/11/2019
Phenanthrene	0.000400		**0.00198**	0.00200	0	98.9	0.002175	9.47	11/11/2019
Pyrene	0.000200		**0.00202**	0.00200	0	100.8	0.002102	4.21	11/11/2019
Surr: 2-Fluorobiphenyl			**0.000917**	0.00100		91.7			11/11/2019
Surr: Nitrobenzene-d5			**0.000976**	0.00100		97.6			11/11/2019
Surr: p-Terphenyl-d14			**0.00132**	0.00100		132.2			11/11/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159286 **SampType:** MBLK Units **mg/L**

SampID: MBLK-159286

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						11/12/2019
Acenaphthylene	0.000100		**ND**						11/12/2019
Anthracene	0.000100		**ND**						11/12/2019
Benzo(a)anthracene	0.000100		**ND**						11/12/2019
Benzo(a)pyrene	0.000100		**ND**						11/12/2019
Benzo(b)fluoranthene	0.000100		**ND**						11/12/2019
Benzo(g,h,i)perylene	0.000200		**ND**						11/12/2019
Benzo(k)fluoranthene	0.000100		**ND**						11/12/2019
Chrysene	0.000100		**ND**						11/12/2019
Dibenzo(a,h)anthracene	0.000100		**ND**						11/12/2019
Fluoranthene	0.000200		**ND**						11/12/2019
Fluorene	0.000100		**ND**						11/12/2019
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						11/12/2019
Naphthalene	0.000200		**ND**						11/12/2019
Phenanthrene	0.000400		**ND**						11/12/2019
Pyrene	0.000200		**ND**						11/12/2019
Surr: 2-Fluorobiphenyl			**0.000829**	0.00100(		82.9	30	133	11/12/2019
Surr: Nitrobenzene-d5			**0.000971**	0.00100(		97.1	39.8	123	11/12/2019
Surr: p-Terphenyl-d14			**0.00119**	0.00100(		118.9	48.1	144	11/12/2019

Batch 159286 **SampType:** LCS Units **mg/L**

SampID: LCS-159286

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00179**	0.00200(	0	89.6	46.9	113	11/12/2019
Acenaphthylene	0.000100		**0.00219**	0.00200(	0	109.3	45.9	129	11/12/2019
Anthracene	0.000100		**0.00192**	0.00200(	0	96.2	48.5	117	11/12/2019
Benzo(a)anthracene	0.000100		**0.00181**	0.00200(	0	90.5	51.2	117	11/12/2019
Benzo(a)pyrene	0.000100		**0.00209**	0.00200(	0	104.4	48.1	127	11/12/2019
Benzo(b)fluoranthene	0.000100		**0.00195**	0.00200(	0	97.5	38.1	135	11/12/2019
Benzo(g,h,i)perylene	0.000200		**0.00201**	0.00200(	0	100.3	46.5	132	11/12/2019
Benzo(k)fluoranthene	0.000100		**0.00189**	0.00200(	0	94.6	47.5	126	11/12/2019
Chrysene	0.000100		**0.00193**	0.00200(	0	96.4	50.6	121	11/12/2019
Dibenzo(a,h)anthracene	0.000100		**0.00222**	0.00200(	0	111.0	49.2	137	11/12/2019
Fluoranthene	0.000200		**0.00208**	0.00200(	0	103.8	48.8	124	11/12/2019
Fluorene	0.000100		**0.00190**	0.00200(	0	95.2	45.5	123	11/12/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00211**	0.00200(	0	105.3	37.1	143	11/12/2019
Naphthalene	0.000200		**0.00169**	0.00200(	0	84.4	18.5	145	11/12/2019
Phenanthrene	0.000400		**0.00201**	0.00200(	0	100.6	44.7	131	11/12/2019
Pyrene	0.000200		**0.00219**	0.00200(	0	109.5	47.5	123	11/12/2019
Surr: 2-Fluorobiphenyl			**0.000815**	0.00100(		81.5	30	133	11/12/2019
Surr: Nitrobenzene-d5			**0.000910**	0.00100(		91.0	39.8	123	11/12/2019
Surr: p-Terphenyl-d14			**0.00128**	0.00100(		128.4	48.1	144	11/12/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159286 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-159286

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00192**	0.00200	0	95.8	0.001792	6.69	11/12/2019
Acenaphthylene	0.000100		**0.00236**	0.00200	0	117.9	0.002186	7.60	11/12/2019
Anthracene	0.000100		**0.00178**	0.00200	0	89.1	0.001924	7.64	11/12/2019
Benzo(a)anthracene	0.000100		**0.00182**	0.00200	0	91.2	0.001810	0.80	11/12/2019
Benzo(a)pyrene	0.000100		**0.00211**	0.00200	0	105.5	0.002088	1.05	11/12/2019
Benzo(b)fluoranthene	0.000100		**0.00195**	0.00200	0	97.6	0.001949	0.08	11/12/2019
Benzo(g,h,i)perylene	0.000200		**0.00210**	0.00200	0	104.8	0.002007	4.32	11/12/2019
Benzo(k)fluoranthene	0.000100		**0.00190**	0.00200	0	94.8	0.001892	0.21	11/12/2019
Chrysene	0.000100		**0.00193**	0.00200	0	96.5	0.001928	0.13	11/12/2019
Dibenzo(a,h)anthracene	0.000100		**0.00217**	0.00200	0	108.7	0.002221	2.09	11/12/2019
Fluoranthene	0.000200		**0.00202**	0.00200	0	100.9	0.002075	2.81	11/12/2019
Fluorene	0.000100		**0.00200**	0.00200	0	100.0	0.001905	4.87	11/12/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00218**	0.00200	0	108.9	0.002105	3.39	11/12/2019
Naphthalene	0.000200		**0.00176**	0.00200	0	88.1	0.001687	4.38	11/12/2019
Phenanthrene	0.000400		**0.00195**	0.00200	0	97.5	0.002011	3.14	11/12/2019
Pyrene	0.000200		**0.00211**	0.00200	0	105.4	0.002190	3.84	11/12/2019
Surr: 2-Fluorobiphenyl			**0.000886**	0.00100		88.6			11/12/2019
Surr: Nitrobenzene-d5			**0.000929**	0.00100		92.9			11/12/2019
Surr: p-Terphenyl-d14			**0.00116**	0.00100		115.6			11/12/2019

Batch 159286 **SampType:** MS Units **mg/L**

SampID: 19110533-025AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00192**	0.00200	0	96.0	28.3	133	11/12/2019
Acenaphthylene	0.000100		**0.00143**	0.00200	0	71.3	5	176	11/12/2019
Anthracene	0.000100		**0.00190**	0.00200	0	95.2	34.6	131	11/12/2019
Benzo(a)anthracene	0.000100		**0.00187**	0.00200	0	93.5	40.3	132	11/12/2019
Benzo(a)pyrene	0.000100		**0.00211**	0.00200	0	105.4	40.8	132	11/12/2019
Benzo(b)fluoranthene	0.000100		**0.00212**	0.00200	0	106.2	41.9	132	11/12/2019
Benzo(g,h,i)perylene	0.000200		**0.00207**	0.00200	0	103.3	46	132	11/12/2019
Benzo(k)fluoranthene	0.000100		**0.00191**	0.00200	0	95.3	49.4	126	11/12/2019
Chrysene	0.000100		**0.00192**	0.00200	0	96.1	46.1	129	11/12/2019
Dibenzo(a,h)anthracene	0.000100		**0.00221**	0.00200	0	110.4	42.1	146	11/12/2019
Fluoranthene	0.000200		**0.00208**	0.00200	0	103.9	23.9	164	11/12/2019
Fluorene	0.000100		**0.00200**	0.00200	0	100.0	24.3	148	11/12/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00225**	0.00200	0	112.3	26.6	157	11/12/2019
Naphthalene	0.000200		**0.00169**	0.00200	0	84.6	24.2	132	11/12/2019
Phenanthrene	0.000400		**0.00195**	0.00200	0	97.5	36.6	139	11/12/2019
Pyrene	0.000200		**0.00209**	0.00200	0	104.6	14.6	169	11/12/2019
Surr: 2-Fluorobiphenyl			**0.000839**	0.00100		83.9	21.4	142	11/12/2019
Surr: Nitrobenzene-d5			**0.000893**	0.00100		89.3	15	163	11/12/2019
Surr: p-Terphenyl-d14			**0.00118**	0.00100		118.3	10	173	11/12/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159286 **SampType:** MSD Units **mg/L** RPD Limit **40**

SampID: 19110533-025AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00184**	0.00200	0	91.8	0.001919	4.45	11/12/2019
Acenaphthylene	0.000100	R	**0.00215**	0.00200	0	107.7	0.001426	40.68	11/12/2019
Anthracene	0.000100		**0.00185**	0.00200	0	92.4	0.001904	2.99	11/12/2019
Benzo(a)anthracene	0.000100		**0.00184**	0.00200	0	92.0	0.001871	1.61	11/12/2019
Benzo(a)pyrene	0.000100		**0.00204**	0.00200	0	101.9	0.002107	3.33	11/12/2019
Benzo(b)fluoranthene	0.000100		**0.00193**	0.00200	0	96.6	0.002124	9.50	11/12/2019
Benzo(g,h,i)perylene	0.000200		**0.00205**	0.00200	0	102.6	0.002065	0.68	11/12/2019
Benzo(k)fluoranthene	0.000100		**0.00180**	0.00200	0	89.8	0.001906	6.00	11/12/2019
Chrysene	0.000100		**0.00194**	0.00200	0	97.1	0.001921	1.09	11/12/2019
Dibenzo(a,h)anthracene	0.000100		**0.00234**	0.00200	0	117.0	0.002208	5.78	11/12/2019
Fluoranthene	0.000200		**0.00200**	0.00200	0	100.2	0.002078	3.65	11/12/2019
Fluorene	0.000100		**0.00196**	0.00200	0	98.0	0.002000	2.08	11/12/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00210**	0.00200	0	105.2	0.002246	6.55	11/12/2019
Naphthalene	0.000200		**0.00180**	0.00200	0	90.2	0.001692	6.43	11/12/2019
Phenanthrene	0.000400		**0.00186**	0.00200	0	93.2	0.001949	4.41	11/12/2019
Pyrene	0.000200		**0.00216**	0.00200	0	107.9	0.002093	3.03	11/12/2019
Surr: 2-Fluorobiphenyl			**0.000886**	0.00100		88.6			11/12/2019
Surr: Nitrobenzene-d5			**0.000892**	0.00100		89.2			11/12/2019
Surr: p-Terphenyl-d14			**0.00122**	0.00100		122.5			11/12/2019

Batch 159286 **SampType:** MS Units **mg/L**

SampID: 19110533-027AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00185**	0.00200	0	92.7	28.3	133	11/13/2019
Acenaphthylene	0.000100		**0.00214**	0.00200	0	107.0	5	176	11/13/2019
Anthracene	0.000100		**0.00172**	0.00200	0	86.1	34.6	131	11/13/2019
Benzo(a)anthracene	0.000100		**0.00176**	0.00200	0	87.8	40.3	132	11/13/2019
Benzo(a)pyrene	0.000100		**0.00200**	0.00200	0	99.8	40.8	132	11/13/2019
Benzo(b)fluoranthene	0.000100		**0.00190**	0.00200	0	95.1	41.9	132	11/13/2019
Benzo(g,h,i)perylene	0.000200		**0.00200**	0.00200	0	99.8	46	132	11/13/2019
Benzo(k)fluoranthene	0.000100		**0.00193**	0.00200	0	96.7	49.4	126	11/13/2019
Chrysene	0.000100		**0.00179**	0.00200	0	89.6	46.1	129	11/13/2019
Dibenzo(a,h)anthracene	0.000100		**0.00220**	0.00200	0	110.0	42.1	146	11/13/2019
Fluoranthene	0.000200		**0.00183**	0.00200	0	91.5	23.9	164	11/13/2019
Fluorene	0.000100		**0.00195**	0.00200	0	97.4	24.3	148	11/13/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00198**	0.00200	0	99.1	26.6	157	11/13/2019
Naphthalene	0.000200		**0.00167**	0.00200	0	83.4	24.2	132	11/13/2019
Phenanthrene	0.000400		**0.00181**	0.00200	0	90.7	36.6	139	11/13/2019
Pyrene	0.000200		**0.00188**	0.00200	0	94.1	14.6	169	11/13/2019
Surr: 2-Fluorobiphenyl			**0.000882**	0.00100		88.2	21.4	142	11/13/2019
Surr: Nitrobenzene-d5			**0.000840**	0.00100		84.0	15	163	11/13/2019
Surr: p-Terphenyl-d14			**0.00102**	0.00100		101.8	10	173	11/13/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159286 **SampType:** MSD Units **mg/L** RPD Limit **40**

SampID: 19110533-027AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00173**	0.00200	0	86.3	0.001854	7.15	11/13/2019
Acenaphthylene	0.000100		**0.00207**	0.00200	0	103.5	0.002139	3.34	11/13/2019
Anthracene	0.000100		**0.00172**	0.00200	0	86.2	0.001723	0.02	11/13/2019
Benzo(a)anthracene	0.000100		**0.00178**	0.00200	0	88.8	0.001757	1.08	11/13/2019
Benzo(a)pyrene	0.000100		**0.00195**	0.00200	0	97.6	0.001996	2.30	11/13/2019
Benzo(b)fluoranthene	0.000100		**0.00179**	0.00200	0	89.3	0.001902	6.29	11/13/2019
Benzo(g,h,i)perylene	0.000200		**0.00193**	0.00200	0	96.5	0.001996	3.37	11/13/2019
Benzo(k)fluoranthene	0.000100		**0.00183**	0.00200	0	91.3	0.001934	5.74	11/13/2019
Chrysene	0.000100		**0.00179**	0.00200	0	89.7	0.001792	0.09	11/13/2019
Dibenzo(a,h)anthracene	0.000100		**0.00214**	0.00200	0	106.9	0.002199	2.87	11/13/2019
Fluoranthene	0.000200		**0.00183**	0.00200	0	91.3	0.001830	0.27	11/13/2019
Fluorene	0.000100		**0.00174**	0.00200	0	87.1	0.001949	11.16	11/13/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00199**	0.00200	0	99.6	0.001982	0.44	11/13/2019
Naphthalene	0.000200		**0.00163**	0.00200	0	81.6	0.001668	2.17	11/13/2019
Phenanthrene	0.000400		**0.00172**	0.00200	0	86.0	0.001815	5.42	11/13/2019
Pyrene	0.000200		**0.00187**	0.00200	0	93.7	0.001882	0.40	11/13/2019
Surr: 2-Fluorobiphenyl			**0.000826**	0.00100		82.6			11/13/2019
Surr: Nitrobenzene-d5			**0.000870**	0.00100		87.0			11/13/2019
Surr: p-Terphenyl-d14			**0.00105**	0.00100		105.3			11/13/2019

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

Batch 159198 **SampType:** MBLK Units **µg/L**

SampID: MBLK-T191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**ND**						11/08/2019
Ethylbenzene	2.0		**ND**						11/08/2019
Toluene	2.0		**ND**						11/08/2019
Xylenes, Total	4.0		**ND**						11/08/2019
Surr: 1,2-Dichloroethane-d4			**50.3**	50.00		100.6	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			**49.8**	50.00		99.6	83.9	115	11/08/2019
Surr: Dibromofluoromethane			**51.9**	50.00		103.8	84.9	113	11/08/2019
Surr: Toluene-d8			**47.8**	50.00		95.6	86.7	112	11/08/2019

Batch 159198 **SampType:** LCSD Units **µg/L** RPD Limit **40**

SampID: LCSD-T191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**51.7**	50.00	0	103.4	50.91	1.52	11/08/2019
Ethylbenzene	2.0		**46.3**	50.00	0	92.6	45.25	2.29	11/08/2019
Toluene	2.0		**45.6**	50.00	0	91.2	44.89	1.59	11/08/2019
Xylenes, Total	4.0		**139**	150.0	0	92.7	135.3	2.76	11/08/2019
Surr: 1,2-Dichloroethane-d4			**52.2**	50.00		104.4			11/08/2019
Surr: 4-Bromofluorobenzene			**50.3**	50.00		100.7			11/08/2019
Surr: Dibromofluoromethane			**52.3**	50.00		104.5			11/08/2019
Surr: Toluene-d8			**47.0**	50.00		94.0			11/08/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159198 **SampType:** LCS Units **µg/L**

SampID: LCS-T191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**50.9**	50.00	0	101.8	75.8	121	11/08/2019
Ethylbenzene	2.0		**45.2**	50.00	0	90.5	80.7	114	11/08/2019
Toluene	2.0		**44.9**	50.00	0	89.8	78.3	112	11/08/2019
Xylenes, Total	4.0		**135**	150.0	0	90.2	80.2	113	11/08/2019
Surr: 1,2-Dichloroethane-d4			**52.2**	50.00		104.3	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			**50.5**	50.00		101.0	83.9	115	11/08/2019
Surr: Dibromofluoromethane			**52.2**	50.00		104.4	84.9	113	11/08/2019
Surr: Toluene-d8			**46.2**	50.00		92.5	86.7	112	11/08/2019

Batch 159198 **SampType:** MS Units **µg/L**

SampID: 19110533-025DMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**52.4**	50.00	0	104.8	62.5	121	11/08/2019
Ethylbenzene	2.0		**46.9**	50.00	0	93.9	74.4	130	11/08/2019
Toluene	2.0		**44.7**	50.00	0	89.5	69.5	118	11/08/2019
Xylenes, Total	4.0		**90.6**	100.0	0	90.6	71.1	125	11/08/2019
Surr: 1,2-Dichloroethane-d4			**50.6**	50.00		101.3	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			**50.6**	50.00		101.3	83.9	115	11/08/2019
Surr: Dibromofluoromethane			**51.9**	50.00		103.8	84.9	113	11/08/2019
Surr: Toluene-d8			**46.0**	50.00		92.1	86.7	112	11/08/2019

Batch 159198 **SampType:** MSD Units **µg/L** RPD Limit **20**

SampID: 19110533-025DMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**49.3**	50.00	0	98.6	52.40	6.14	11/08/2019
Ethylbenzene	2.0		**44.8**	50.00	0	89.7	46.94	4.58	11/08/2019
Toluene	2.0		**42.6**	50.00	0	85.3	44.73	4.81	11/08/2019
Xylenes, Total	4.0		**87.8**	100.0	0	87.8	90.63	3.18	11/08/2019
Surr: 1,2-Dichloroethane-d4			**50.1**	50.00		100.3			11/08/2019
Surr: 4-Bromofluorobenzene			**49.1**	50.00		98.2			11/08/2019
Surr: Dibromofluoromethane			**51.5**	50.00		103.1			11/08/2019
Surr: Toluene-d8			**46.1**	50.00		92.2			11/08/2019

Batch 159198 **SampType:** MS Units **µg/L**

SampID: 19110533-027DMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**52.8**	50.00	0	105.5	62.5	121	11/08/2019
Ethylbenzene	2.0		**47.8**	50.00	0	95.6	74.4	130	11/08/2019
Toluene	2.0		**45.2**	50.00	0	90.5	69.5	118	11/08/2019
Xylenes, Total	4.0		**93.1**	100.0	0	93.1	71.1	125	11/08/2019
Surr: 1,2-Dichloroethane-d4			**49.9**	50.00		99.8	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			**50.4**	50.00		100.8	83.9	115	11/08/2019
Surr: Dibromofluoromethane			**51.0**	50.00		101.9	84.9	113	11/08/2019
Surr: Toluene-d8			**46.7**	50.00		93.4	86.7	112	11/08/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159198 **SampType:** MSD Units µg/L RPD Limit 20

SampID: 19110533-027DMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**51.5**	50.00	0	103.1	52.77	2.36	11/08/2019
Ethylbenzene	2.0		**45.2**	50.00	0	90.4	47.80	5.59	11/08/2019
Toluene	2.0		**42.9**	50.00	0	85.9	45.24	5.24	11/08/2019
Xylenes, Total	4.0		**88.6**	100.0	0	88.6	93.13	4.96	11/08/2019
Surr: 1,2-Dichloroethane-d4			**50.4**	50.00		100.8			11/08/2019
Surr: 4-Bromofluorobenzene			**51.7**	50.00		103.5			11/08/2019
Surr: Dibromofluoromethane			**51.6**	50.00		103.3			11/08/2019
Surr: Toluene-d8			**45.6**	50.00		91.3			11/08/2019

Batch 159224 **SampType:** MBLK Units µg/L

SampID: MBLK-N191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**ND**						11/08/2019
Ethylbenzene	2.0		**ND**						11/08/2019
Toluene	2.0		**ND**						11/08/2019
Xylenes, Total	4.0		**ND**						11/08/2019
Surr: 1,2-Dichloroethane-d4			**44.7**	50.00		89.3	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			**46.6**	50.00		93.2	83.9	115	11/08/2019
Surr: Dibromofluoromethane			**51.5**	50.00		102.9	84.9	113	11/08/2019
Surr: Toluene-d8			**46.6**	50.00		93.3	86.7	112	11/08/2019

Batch 159224 **SampType:** LCSD Units µg/L RPD Limit 15.9

SampID: LCSD-N191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**44.2**	50.00	0	88.3	44.76	1.37	11/08/2019
Ethylbenzene	2.0		**43.8**	50.00	0	87.6	42.63	2.75	11/08/2019
Toluene	2.0		**43.0**	50.00	0	86.0	42.23	1.76	11/08/2019
Xylenes, Total	4.0		**132**	150.0	0	88.1	130.2	1.54	11/08/2019
Surr: 1,2-Dichloroethane-d4			**42.5**	50.00		84.9			11/08/2019
Surr: 4-Bromofluorobenzene			**45.6**	50.00		91.3			11/08/2019
Surr: Dibromofluoromethane			**51.5**	50.00		103.1			11/08/2019
Surr: Toluene-d8			**47.4**	50.00		94.7			11/08/2019

Batch 159224 **SampType:** LCS Units µg/L

SampID: LCS-N191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**44.8**	50.00	0	89.5	78.5	119	11/08/2019
Ethylbenzene	2.0		**42.6**	50.00	0	85.3	78.2	114	11/08/2019
Toluene	2.0		**42.2**	50.00	0	84.5	78.6	112	11/08/2019
Xylenes, Total	4.0		**130**	150.0	0	86.8	78.3	114	11/08/2019
Surr: 1,2-Dichloroethane-d4			**43.7**	50.00		87.4	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			**45.1**	50.00		90.2	83.9	115	11/08/2019
Surr: Dibromofluoromethane			**51.5**	50.00		103.1	84.9	113	11/08/2019
Surr: Toluene-d8			**47.1**	50.00		94.3	86.7	112	11/08/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159233 **SampType:** MBLK Units µg/L

SampID: MBLK-AE191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						11/08/2019
Ethylbenzene	2.0		ND						11/08/2019
Toluene	2.0		ND						11/08/2019
Xylenes, Total	4.0		ND						11/08/2019
Surr: 1,2-Dichloroethane-d4			52.5	50.00		104.9	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			49.6	50.00		99.1	83.9	115	11/08/2019
Surr: Dibromofluoromethane			51.3	50.00		102.5	84.9	113	11/08/2019
Surr: Toluene-d8			50.4	50.00		100.9	86.7	112	11/08/2019

Batch 159233 **SampType:** LCS Units µg/L

SampID: LCS-AE191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		41.5	50.00	0	83.0	78.5	119	11/08/2019
Ethylbenzene	2.0		42.4	50.00	0	84.7	78.2	114	11/08/2019
Toluene	2.0		42.8	50.00	0	85.5	78.6	112	11/08/2019
Xylenes, Total	4.0		130	150.0	0	86.7	78.3	114	11/08/2019
Surr: 1,2-Dichloroethane-d4			52.6	50.00		105.2	79.6	118	11/08/2019
Surr: 4-Bromofluorobenzene			50.0	50.00		100.0	83.9	115	11/08/2019
Surr: Dibromofluoromethane			50.9	50.00		101.9	84.9	113	11/08/2019
Surr: Toluene-d8			50.4	50.00		100.7	86.7	112	11/08/2019

Batch 159233 **SampType:** LCSD Units µg/L RPD Limit **15.9**

SampID: LCSD-AE191108A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		43.7	50.00	0	87.4	41.50	5.12	11/08/2019
Ethylbenzene	2.0		44.9	50.00	0	89.7	42.36	5.73	11/08/2019
Toluene	2.0		45.3	50.00	0	90.5	42.75	5.73	11/08/2019
Xylenes, Total	4.0		138	150.0	0	91.7	130.0	5.65	11/08/2019
Surr: 1,2-Dichloroethane-d4			52.1	50.00		104.2			11/08/2019
Surr: 4-Bromofluorobenzene			49.8	50.00		99.6			11/08/2019
Surr: Dibromofluoromethane			51.3	50.00		102.6			11/08/2019
Surr: Toluene-d8			50.2	50.00		100.4			11/08/2019

Batch 159287 **SampType:** MBLK Units µg/L

SampID: MBLK-T191111A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						11/11/2019
Ethylbenzene	2.0		ND						11/11/2019
Toluene	2.0		ND						11/11/2019
Xylenes, Total	4.0		ND						11/11/2019
Surr: 1,2-Dichloroethane-d4			50.2	50.00		100.3	79.6	118	11/11/2019
Surr: 4-Bromofluorobenzene			50.2	50.00		100.4	83.9	115	11/11/2019
Surr: Dibromofluoromethane			51.7	50.00		103.5	84.9	113	11/11/2019
Surr: Toluene-d8			45.9	50.00		91.7	86.7	112	11/11/2019

Client: ERM **Work Order:** 19110533

Client Project: Champaign GW **Report Date:** 15-Nov-2019

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

Batch 159287 **SampType:** LCSD Units **µg/L** RPD Limit **15.9**

SampID: LCSD-T191111A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**53.1**	50.00	0	106.3	54.91	3.30	11/11/2019
Ethylbenzene	2.0		**47.9**	50.00	0	95.7	48.93	2.21	11/11/2019
Toluene	2.0		**46.9**	50.00	0	93.7	48.54	3.50	11/11/2019
Xylenes, Total	4.0		**143**	150.0	0	95.6	148.1	3.18	11/11/2019
Surr: 1,2-Dichloroethane-d4			**51.5**	50.00		102.9			11/11/2019
Surr: 4-Bromofluorobenzene			**51.2**	50.00		102.5			11/11/2019
Surr: Dibromofluoromethane			**52.1**	50.00		104.1			11/11/2019
Surr: Toluene-d8			**47.4**	50.00		94.8			11/11/2019

Batch 159287 **SampType:** LCS Units **µg/L**

SampID: LCS-T191111A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**54.9**	50.00	0	109.8	78.5	119	11/11/2019
Ethylbenzene	2.0		**48.9**	50.00	0	97.9	78.2	114	11/11/2019
Toluene	2.0		**48.5**	50.00	0	97.1	78.6	112	11/11/2019
Xylenes, Total	4.0		**148**	150.0	0	98.7	78.3	114	11/11/2019
Surr: 1,2-Dichloroethane-d4			**52.1**	50.00		104.2	79.6	118	11/11/2019
Surr: 4-Bromofluorobenzene			**50.2**	50.00		100.5	83.9	115	11/11/2019
Surr: Dibromofluoromethane			**52.7**	50.00		105.3	84.9	113	11/11/2019
Surr: Toluene-d8			**47.7**	50.00		95.4	86.7	112	11/11/2019

Receiving Check List

http://www.teklabinc.com/

Client: ERM
Client Project: Champaign GW

Work Order: 19110533
Report Date: 15-Nov-2019

Carrier: Jacob Wilson
Received By: KMT

Completed by: Amber M. Dilallo
On: 07-Nov-2019

Reviewed by: Elizabeth A. Hurley
On: 07-Nov-2019

Pages to follow: Chain of custody 4 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.4
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.

Additional Sodium Hydroxide (70756) was needed in all samples for cyanide analysis except 102, 124, 127, DUP-001 and EB-01 upon arrival at the laboratory. - adilallo - 11/7/2019 5:02:56 PM

CHAIN OF CUSTODY

 Work order # 19110533

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

Client: ERM
Address: 2 CityPlace Drive, Suite 70
City / State / Zip: St. Louis, MO 63141
Contact: Greg Moore **Phone:** (314) 238-6162
E-Mail: greg.moore@erm.com **Fax:**

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 4.4 °C IR3
Preserved in: [X] LAB [ ] FIELD
FOR LAB USE ONLY
Lab Notes: Added NaOH (70756) to all except 102, 124, 127, DUP-001 & EB-01. on 11/7/19 OK HS.

Client Comments
Lower 0.0075 mg/L detection limit for Pb

Courier

Are these samples known to be involved in litigation? If yes, a surcharge will apply [ ] Yes [X] No
Are these samples known to be hazardous? [ ] Yes [X] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. [X] Yes [ ] No

Project Name/Number: Champaign GW
Sample Collector's Name: G. Moore / M. Abegg

Results Requested: [X] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other ____ [ ] 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	UNP	HNO3	NaOH	HCl	Groundwater	BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
19110533 001	UMW-102-WG-20191106	11/6/19, 1100	1	1	1	2	X	X	X	X	X
002	UMW-105-WG-20191106	11/6/19, 1330	1	1	1	2	X	X	X	X	X
003	UMW-106R-WG-20191105	11/05/2019 ~~1405~~ 1450 MA	1	1	1	2	X	X	X	X	X
004	UMW-107R-WG-20191105	11/5/19, 1350	1	1	1	2	X	X	X	X	X
005	UMW-108-WG-20191105	11/05/2019 0830	1	1	1	2	X	X	X	X	X
006	UMW-109-WG-20191105	11/5/19, 1000	1	1	1	2	X	X	X	X	X
007	UMW-111A-WG-20191104	11/4/19, 1650	1	1	1	2	X	X	X	X	X
008	UMW-116-WG-20191105	11/05/2019 1230	1	1	1	2	X	X	X	X	X
009	UMW-117-WG-20191105	11/05/2019 0950	1	1	1	2	X	X	X	X	X
010	UMW-118-WG-20191105	11/5/19, 1115	1	1	1	2	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
G. Moore (ERM)	11/7/19, 1450	[signature]	11/7/19 1450
[signature]	11/7/19 1550	[signature]	11/7/19 1550

BottleOrder: 54073

CHAIN OF CUSTODY

pg. 2 of 4 Work order # 1911O533

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

Client:	ERM
Address:	2 CityPlace Drive, Suite 70
City / State / Zip	St. Louis, MO 63141
Contact:	Greg Moore
Phone:	(314) 238-6162
E-Mail:	greg.moore@erm.com
Fax:	

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

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments

Lower 0.0075 ng/L detection limit for Pb

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

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

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

Project Name/Number	Sample Collector's Name
Champaign GW	G. Moore / M. Abegg

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	NaOH	HCl					MATRIX: Groundwater						INDICATE ANALYSIS REQUESTED: BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A											
A1105 33-01	UMW-119-WG-20191104	11/4/19, 1550	1	1	1	2					X						X	X	X	X											
02	UMW-120-WG20191104	11/04/2019 1545	1	1	1	2					X						X	X	X	X											
03	UMW-121-WG-20191106	11/6/19, 1405	1	1	1	2					X						X	X	X	X											
04	UMW-122-WG-20191105	11/5/19, 1500	1	1	1	2					X						X	X	X	X											
05	UMW-123-WG-20191105	11/5/19, 1715	1	1	1	2					X						X	X	X	X											
06	UMW-124-WG-20191106	11/6/19, 1430	1	1	1	2					X						X	X	X	X											
07	UMW-125-WG-20191106	11/6/19, 0750	1	1	1	2					X						X	X	X	X											
08	UMW-126-WG-20191106	11/6/19, 1520	1	1	1	2					X						X	X	X	X											
09	UMW-127-WG-20191106	11/6/19, 0905	1	1	1	2					X						X	X	X	X											
10	UMW-300-WG-20191104	11/04/2019 1650	1	1	1	2					X						X	X	X	X											

Relinquished By	Date/Time	Received By	Date/Time
D. Moore (ERM)	11/7/19, 1450		11/7/19 1450
	11/7/19 1550		11/7/19 1550

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: 54073

CHAIN OF CUSTODY

pg. 3 of 4 Work order # 19110533

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

Client:	ERM
Address:	2 CityPlace Drive, Suite 70
City / State / Zip	St. Louis, MO 63141
Contact:	Greg Moore
Phone:	(314) 238-6162
E-Mail:	greg.moore@erm.com
Fax:	

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

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments
Lower 0.0075 mg/L detection limit for Pb

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

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

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

Project Name/Number	Sample Collector's Name
Champaign GW	Moore/Abegg

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	NaOH	HCl	MATRIX: Groundwater	BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
P110533-021	UMW-301R-WG-20191106	11/6/19, 1215	1	1	1	2	X	X	X	X	X
022	UMW-302-WG-20191106	11/6/19, 1445	1	1	1	2	X	X	X	X	X
023	UMW-303-WG-20191105	11/05/2019 1105	1	1	1	2	X	X	X	X	X
024	UMW-304R-WG-20191106	11/6/19, 1050	1	1	1	2	X	X	X	X	X
025	UMW-305-WG-20191105	11/05/2019 1710	1	1	1	2	X	X	X	X	X
026	UMW-306-WG-20191106	11/06/2019 ~~0745~~ 0910 MT	1	1	1	2	X	X	X	X	X
027	UMW-307-WG-20191105	11/05/2019 1545	1	1	1	2	X	X	X	X	X
028	UMW-308-WG-20191106	11/6/19, 1320	1	1	1	2	X	X	X	X	X
029	DUP 001-WG-20191106	11/6/19	1	1	1	2	X	X	X	X	X
030	DUP 002-WG-20191106	11/6/19	1	1	1	2	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
M. Moore (ERM)	11/7/19, 1450		11/7/19 1450
	11/7/19 1650		11/7/19 1550

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: 54073

CHAIN OF CUSTODY

pg. 4 of 4 Work order # 19110533

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

Client:	ERM
Address:	2 CityPlace Drive, Suite 70
City / State / Zip	St. Louis, MO 63141
Contact:	Greg Moore
Phone:	(314) 238-6162
E-Mail:	greg.moore@erm.com
Fax:	

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

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments Lower 0.0075 mg/L detection limit for Pb

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

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

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

Project Name/Number	Sample Collector's Name
Champaign GW	Moore/Abegg

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	NaOH	HCl					MATRIX: Groundwater						INDICATE ANALYSIS REQUESTED: BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A												
19110533-031	DUP 003-WG-20191106	11/6/19	1	1	1	2					X						X	X	X	X												
032	EB-01-WQ-201911	11/5/19, 0730	1	1	1	2					X						X	X	X	X												
033	TB-01-WQ-201911					2					X						X															
027	UMW-307-WG-2019	1105 11/05/2019 1545	2	1	1	4					X						X	X	X	X												
025	UMW-305-WG-2019	1105 11/05/2019 1710	2	1	1	4					X						X	X	X	X												

Relinquished By	Date/Time	Received By	Date/Time
(ERM)	11/7/19, 1450		11/7/19 1450
	11/7/19 1550		11/7/19 1550

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.

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Memorandum

To	Lacy Smith
From	Rachel James
Date	17 December 2019
Reference	0500957
Subject	Data Review of Ameren Champaign Groundwater Samples Fourth Quarter 2019: Teklab, Inc. Data Package 19110533.

The data quality was assessed and any necessary qualifiers were applied following the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review*, January 2017 and *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, January 2017.

ERM reviewed data for compliance with the following quality assurance/quality control (QA/QC) and method-prescribed criteria for Stage 2B review:

- **Holding Time and Sample Preservation**: The period of time between collection of the sample and preparation/analysis of the sample is evaluated. Analyses performed for this project have method-prescribed holding times as well as temperature and chemical preservation requirements.
- **Blank Samples**: The preparation and analysis of reagent (contaminant-free) water is evaluated. Blank samples for this investigation included method, trip, and equipment rinsates. Detections in a blank sample may indicate laboratory, transportation, or field contamination. All samples are evaluated for common laboratory contaminants during the blank evaluation.
- **Spike Samples**: The preparation and analysis of an environmental sample or a sample of reagent water spiked with a subset of target compounds at known concentrations is evaluated. The results of the spike analysis measure laboratory accuracy in the reagent sample, and results from the environmental sample spike measure potential interferences from the matrix.
- **Surrogate Spikes**: The addition of compounds similar to target compounds of interest that are added to sample aliquots for organic analysis is evaluated. Surrogate spikes measure possible interferences from the sample matrix for the analysis of target compounds.
- **Duplicate Samples**: The preparation and analysis of an additional aliquot of the sample is evaluated. The results from duplicate analysis measure potential heterogeneity of contaminants in the sample.

Stage 4 data review for 20 percent of the samples (6 samples: UMW-102-WG-20191106, UMW-124-WG-20191106, UMW-125-WG-20191106, UMW-127-WG-20191106, UMW-302-WG-20191106, and DUP 003-WG-20191106) was performed. The Stage 4 review included all of the QA/QC project and/or method-prescribed criteria for Stage 2B review plus:

- **Calibration:** The analysis of target analytes at a range of concentrations to develop a graphical plot of instrument response against the different analyte concentrations. An initial calibration curve establishes the graphical plot, and the continuing calibration verification monitors daily instrument linearity against the initial calibration.
- **Internal standards:** The addition of compounds similar to target compounds of interest that are added to sample aliquots for organic analysis. The internal standards are used to quantitatively and qualitatively evaluate retention time and response for each sample.
- **Recalculation:** Ten percent of the initial calibration, continuing calibration, internal response, surrogate percent recoveries (%R), laboratory control sample/laboratory control sample duplicate (LCS/LCSD) %R, matrix spike/matrix spike duplicate (MS/MSD) %R, and all of the detected sample concentrations were recalculated.

HOLDING TIME AND PRESERVATION EVALUATION

The sample shipments were received at the laboratory within the method-prescribed temperature preservation requirements of less than 6°C. The samples had the correct chemical preservation, with the exception of 27 of the 32 samples for cyanide analysis. In these cases, the pH was less than 12 and the laboratory adjusted the pH with additional sodium hydroxide upon receipt. No qualifications were added to the cyanide results since the samples were preserved properly upon receipt. The samples with inadequate preservation are presented in Table 1.

The samples were prepared and analyzed within the method-prescribed time period from the date of collection with one exception. The PAH preparation for equipment blank sample EB-01-WQ-201911 was performed one day past the 7 day holding time. The results have been qualified as estimates (J/UJ) and are presented in Table 2.

BLANK EVALUATION

The method and trip blank sample results were nondetected for each of the target analytes. No data were qualified on the basis of the blank evaluation. The blank results indicate that no contaminants were introduced to the samples during processing or analysis in the laboratory or during shipment, handling, and storage.

The equipment blank sample results were nondetected for each of the target analytes with one exception. Naphthalene was detected in equipment blank sample EB-01-WQ-201911 at a concentration above the reporting limit. Associated sample results less than the blank concentration were qualified as non-detect (U) at the sample concentration. Associated results between the blank concentration and five times the blank concentration were qualified as estimated with a high bias (J+). The equipment blank detection and associated data are presented in Table 3.

CALIBRATION EVALUATION

Two types of calibration data were reviewed. These were initial calibration (ICAL) and continuing calibration verification (CCV/ICV). For linear ICALs, the correlation coefficient (r^2) was within control limits and for average response factor ICALs, the relative standard deviations (RSDs) were within the control limits. The laboratory also calculated the relative response factors (RRFs) for the analytes in the ICAL. The reported percent relative standard deviations and RRFs were compared to the method-prescribed acceptance criteria and validation criteria during the data validation. The

laboratory calculated the percent difference (%D) between CCV/ICV and the ICAL. The laboratory calculated the CCV/ICV RRFs. The %Ds and RRFs were then compared to the method-prescribed acceptance criteria and validation criteria during the data validation. The ICAL and CCV/ICV results were within acceptable limits for the samples.

BLANK SPIKE EVALUATION

The LCS/LCSD recoveries and RPDs were within the laboratory's limits of acceptance. The LCS recoveries and RPDs indicate acceptable laboratory accuracy and precision.

MATRIX SPIKE EVALUATION

The MS/MSD recoveries and RPDs were within the laboratory's limits of acceptance for project samples, with one exception. The RPD for acenaphthylene was above the control limit in the MS/MSD samples prepared from UMW-305-WG-20191105. The recoveries were within control limits for both the MS and MSD samples; therefore, the acenaphthylene result in the parent sample was not qualified due to the RPD result alone. The matrix spike outlier is presented in Table 4.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within acceptable limits. No qualifications were required based on surrogate recoveries. The surrogate recoveries indicate minimal matrix interference in the samples.

INTERNAL STANDARD EVALUATION

The internal standard responses for reported results were within acceptable limits.

CALIBRATION RANGE EXCEEDANCES

The cyanide results for MS/MSD samples prepared from UMW-109-WG-20191105 and UMW-307-WG-20191105 exceeded the instrument calibration range as noted in Table 5. Since the MS/MSD parent sample results are within calibration range, no qualifications were applied.

FIELD DUPLICATE EVALUATION

Three samples were submitted in duplicate. ERM calculated the relative percent difference (RPD) between detected results. National Functional Guidelines has not established control criteria for field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision. A list of the field duplicate detections and the calculated RPDs is provided in Table 6.

RECALCULATION

All result recalculations agreed with reported results.

OVERALL ASSESSMENT

None of the data required rejection. All of the data, including qualified data, can be used for decision-making purposes; however, the limitations indicated by the applied qualifiers should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

Table 1
Samples with Exceeded Preservation Requirements
Fourth Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Preservation Condition	Limits	ERM Qualifier
19110533	UMW-105-WG-20191106	9012A	pH < 12	pH ≥ 12	--
	UMW-106R-WG-20191105				
	UMW-107R-WG-20191105				
	UMW-108-WG-20191105				
	UMW-109-WG-20191105				
	UMW-111A-WG-20191104				
	UMW-116-WG-20191105				
	UMW-117-WG-20191105				
	UMW-118-WG-20191105				
	UMW-119-WG-20191104				
	UMW-120-WG20191104				
	UMW-121-WG-20191106				
	UMW-122-WG-20191105				
	UMW-123-WG-20191105				
	UMW-125-WG-20191106				
	UMW-126-WG-20191106				
	UMW-300-WG-20191104				
	UMW-301R-WG-20191106				
	UMW-302-WG-20191106				
	UMW-303-WG-20191105				
	UMW-304R-WG-20191106				
	UMW-305-WG-20191105				
	UMW-306-WG-20191106				
	UMW-307-WG-20191105				
	UMW-308-WG-20191106				
	DUP 002-WG-20191106				
	DUP 003-WG-20191106				

Lab package reviewed: 19110533

Table 2
Samples with Exceeded Holding Times
Fourth Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Extraction Holding Time	Time Exceeded	Analysis Holding Time	Time Exceeded	ERM Qualifier
19110533	EB-01-WQ-201911	8270C	7 days	1 day	40 days	--	J/UJ

Lab package reviewed: 19110533

Notes:

J/UJ = Detected results are estimated; nondetected results are estimated at the report limit

Table 3
Blank and Associated Suspect Sample Detections
Fourth Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Blank ID	Detected Compound	Reported Blank Concentration	Blank Report Limit	Associated Sample	Associated Sample Result	Associated Sample Report Limit	Units	ERM Qualifier
19110533	EB-01-WQ-201911	Naphthalene	0.00258	0.000200	UMW-125-WG-20191106	0.000239	0.000200	mg/L	0.000239 U
					UMW-127-WG-20191106	0.00208	0.000200	mg/L	0.00208 U
					UMW-303-WG-20191105	0.00305	0.000200	mg/L	J+
					UMW-304R-WG-20191106	0.000233	0.000200	mg/L	0.000233 U
					DUP 002-WG-20191106	0.000250	0.000200	mg/L	0.000250 U

Lab package reviewed: 19110533

Notes:
EB = Equipment blank
mg/L = Milligrams per liter
J+ = Detected results are estimated with a high bias
U = Nondetected

Table 4
Spike Recoveries Outside of Acceptable Limits
Fourth Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Spike Sample ID	Associated Sample	Compound	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
				MS/MSD						
19110533	UMW-305-WG-20191105 MS/MSD	UMW-305-WG-20191105	Acenaphthylene	71.3/107.7	5-176	40.68	40	--	--	--

Lab package reviewed: 19110533

Notes:
MS/MSD = Matrix spike/matrix spike duplicate
RPD = Relative percent difference

Table 5
Calibration Range Exceedances
Fourth Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Compound	Reported Concentration	Units	ERM Qualifier
19110533	UMW-109-WG-20191105 MS	Cyanide	0.056	mg/L	--
	UMW-109-WG-20191105 MSD		0.056	mg/L	--
	UMW-307-WG-20191105 MS		0.055	mg/L	--
	UMW-307-WG-20191105 MSD		0.057	mg/L	--

Lab package reviewed: 19110533

Notes:
mg/L = Milligrams per liter
MS = Matrix spike
MSD = Matrix spike duplicate

Table 6
Field Duplicate Results and Calculated Relative Percent Differences
Fourth Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Primary/Duplicate Sample ID	Compound	Concentration		Report Limit		Units	RPD
			Sample	Duplicate	Sample	Duplicate		
19110533	UMW-124-WG-20191106/ DUP 001-WG-20191106	Barium	0.0321	0.0316	0.0025	0.0025	mg/L	1.6
		Acenaphthene	0.000448	0.000427	0.000100	0.000100	mg/L	4.8
		Acenaphthylene	0.000278	0.000297	0.000100	0.000100	mg/L	6.6
		Fluorene	0.000160	0.000168	0.000100	0.000100	mg/L	4.9
		Naphthalene	0.0425	0.0391	0.00500	0.00500	mg/L	8.3
		Benzene	88.1	91.6	0.5	0.5	µg/L	3.9
		Ethylbenzene	8.4	8.6	2.0	2.0	µg/L	2.4
		Toluene	48.3	48.9	2.0	2.0	µg/L	1.2
		Xylenes, Total	22.9	23.5	4.0	4.0	µg/L	2.6
	UMW-126-WG-20191106/ DUP 002-WG-20191106	Barium	0.0263	0.0265	0.0025	0.0025	mg/L	0.76
		Naphthalene	ND	0.00025 U	0.000200	0.000200	mg/L	NC
		Benzene	14.4	12.5	0.5	0.5	µg/L	14
	UMW-302-WG-20191106/ DUP 003-WG-20191106	Cyanide	0.135	0.138	0.025	0.025	mg/L	2.2
		Barium	0.0531	0.0544	0.0025	0.0025	mg/L	2.4
		Acenaphthene	0.000614	0.000575	0.000100	0.000100	mg/L	6.6
		Acenaphthylene	0.000743	0.000685	0.000100	0.000100	mg/L	8.1
		Naphthalene	3.20	2.86	2.00	0.200	mg/L	11
		Benzene	286	372	10.0	50.0	µg/L	26
		Ethylbenzene	687	863	40.0	200	µg/L	23
		Toluene	ND	7.8	40.0	2.0	µg/L	NC
		Xylenes, Total	188	ND	80.0	400	µg/L	NC

Lab package reviewed: 19110533

Notes:
mg/L = Milligrams per liter
ND = Not detected
NC = Not calculated, one result not detected
RPD = Relative percent difference
µg/L = Micrograms per liter

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