January 7, 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 3, 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 third quarter of 2019, which was performed in August 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 2019.

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 3 2019 – Champaign MGP

ERM

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December 20, 2019

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
Third 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 third 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 August 2019.

INTRODUCTION

Groundwater sampling activities for the third quarter 2019 monitoring event were conducted from August 19 through 21. 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 third 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 (TOC), 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 an 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-107R and UMW-124, 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 third 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 August groundwater sampling event. This purge water was discharged to the UCSD-designated discharge point on August 21, 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 August 2019 sampling event are shown on Table 1. The depth to groundwater in the shallow monitoring wells ranged from 3.92 to 9.75 feet below TOC. The shallowest occurrence of groundwater occurred at the on-site monitoring well locations, with depths ranging from 3.92 to 6.02 feet below TOC.

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 August 2019 were calculated to be 0.018 (UMW-124 to UMW-105), 0.010 (UMW-124 to UMW-116), and 0.010 (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 27.54 to 30.13 feet below TOC. As shown on Figure 2, the intermediate groundwater flow direction generally slopes towards the south and southeast, with a groundwater gradient of approximately 0.0012 ft/ft across the Site from UMW-300 to UMW-308.

Analytical Results

Figure 3 summarizes the monitoring well locations where constituents detected in samples collected during the August 2019 sampling event exceeded at least one Class I, Class II, 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. Three of the 28 monitoring wells sampled in the third quarter 2019 had at least one MGP-related constituent exceeding a respective Class I or II, or inhalation RO.

The concentrations detected 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 August 2019 sampling event exceeded their respective RO included shallow monitoring wells UMW-124 and UMW-126, and intermediate well UMW-302. Benzene concentrations of 0.104 and 0.109 mg/L were reported in shallow on-site monitoring wells UMW-124 and UMW-126,

respectively, which exceeds the Class II groundwater RO of 0.025 mg/L. Concentrations of other organic constituents detected in the other seventeen shallow monitoring wells located on-site or off-site were below their respective Class II RO.

Benzene and naphthalene were detected in samples collected from intermediate well UMW-302, at concentrations of 0.188 and 1.68 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 detected in samples collected from UMW-302 at a concentration of 0.697 mg/L, which exceeds the groundwater RO for indoor inhalation at residential sites of 0.37 mg/L, but is below 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 from the overlying shallow water source in the co-located shallow well UMW-121 by over 20 vertical feet of silty clay. 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 third 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-109-WG-20190820, UMW-124-WG-20190821, UMW-126-WG-20190821, UMW 127-WG-20190821, UMW-302-WG-20190821, and DUP 002-WG-20190821).

During data validation, a disparity was observed in the analytical results for sample pair UMW-124 and duplicate sample DUP 002. For example, the relative percent differences (rpd) for naphthalene and ethylbenzene between the primary and duplicate samples were 189% and 131%, respectively. It was also observed that when the analytical results were plotted on Table 3, the analytical results for UMW-124 and UMW-126 did not appear to correlate with historic results, and appeared to be transposed. To assess this discrepancy, ERM reviewed field records and contacted the analytical laboratory to perform an internal audit for these samples. The analytical laboratory was able to locate the sample containers for UMW-124 and UMW126. The labels were inspected, the log forms were reviewed, and ERM requested that the remaining sample be rerun for VOC analysis. Although the samples were out of hold time, the concentrations reported in the samples correlated to the original results. No other labeling or data entry errors were observed. In conclusion, the analytical results for samples UMW-124 and UMW-126 were not altered based our review of available files. ERM will assess future results at these two locations to determine if the observance during this sample event represents a one-time occurrence or a change in trend.

CONCLUSIONS

Based on the data collected during the August 2019 sampling event, the only shallow monitoring wells where concentrations in samples exceeded the Class II groundwater ingestion ROs were on-site monitoring wells UMW-124 and UMW-126. Benzene was the only constituent detected in these samples 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 which exceeded groundwater ROs in monitoring well UMW-302, located south of the Site. Benzene and naphthalene were detected 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. As stated previously, the lower groundwater unit is separated from the shallow groundwater unit by the 20-foot thick silty clay unit present at an approximate depth between 20 and 40 feet below land surface. The isolation of the lower groundwater unit from the shallow groundwater unit is evident in the difference in groundwater elevations between the 100 and 300-series monitoring wells (refer to Table 1, and Figures 1 and 2). Furthermore, no detections of constituents that exceeded similar ROs were reported in the co-located shallow monitoring well (UMW-121) that is adjacent to UMW-302.

A summary of the results of data validation is included with the analytical report in Attachment 1. Despite an apparent discrepancy in concentrations measured in UMW-124 and UMW-126, the analytical results for samples UMW-124 and UMW-126 were not found to have been transposed or reported incorrectly based our review of available files. ERM will assess future results at these two locations to determine if the observance during this sample event represents a one-time occurrence or a change in trend.

The analytical results from sampling events completed during the two-year period between July 2017 and August 2019 are shown in Table 3. Graphical representations of benzene and naphthalene concentrations in monitoring wells UMW-107(R), UMW-124, UMW-126 and UMW-302 are shown on Figures 4A through 4D for reference. Table 3 and Figure 4 illustrate that the concentrations reported in samples over time remain generally consistent, exhibiting normal variability induced by seasonal fluctuations of temperature or precipitation at the time of the sampling event. An evaluation of concentrations and variability over time will be discussed in the year-end report for the fourth quarter of 2019.

The next quarterly groundwater sampling event is scheduled to be completed in November 2019. 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

E Washington St

E Washington St

E Hill St

E Church St

N 5Th St

N 6Th St

UMW-109
728.89

UMW-111A
728.33

UMW-118
728.87

UMW-120
730.51

UMW-119
730.26

UMW-108
730.40

UMW-125
731.90

UMW-102
730.24

UMW-117
730.35

UMW-116
729.85

UMW-107R
730.67

UMW-127
732.01

UMW-124
731.97

UMW-126
731.96

UMW-106R
730.03

UMW-122
729.40

UMW-121
731.15

UMW-105
729.15

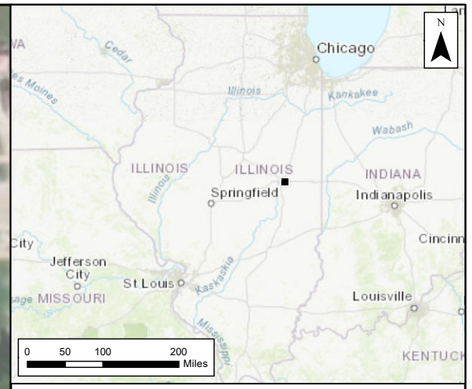
UMW-123
729.36

729

730

731

732



Legend

- Shallow Monitoring Well with August 2019 Groundwater Elevation
- August 2019 Water Table 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
August 2019
Ameren Services
Champaign, Illinois

Environmental Resources Management
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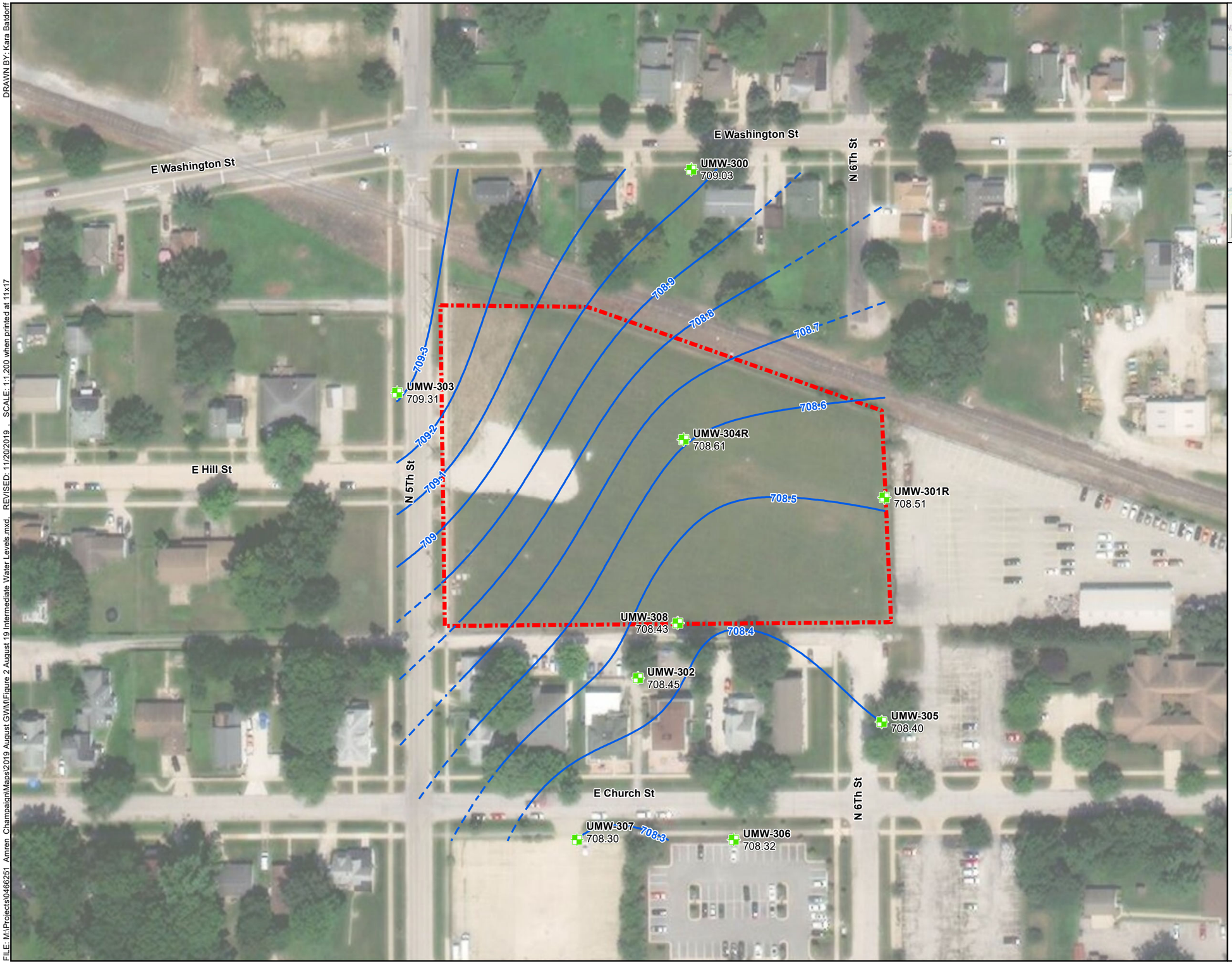

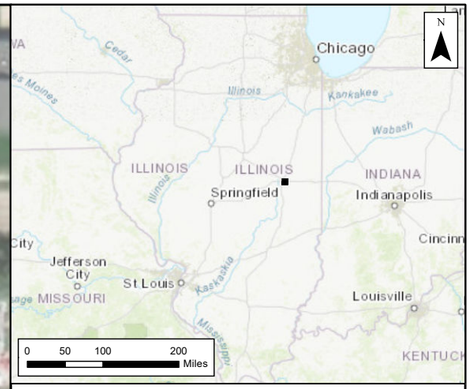

Legend

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

Notes:
All water levels in feet above NGVD29 datum.

N

0 100 200
Feet

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

Environmental Resources Management
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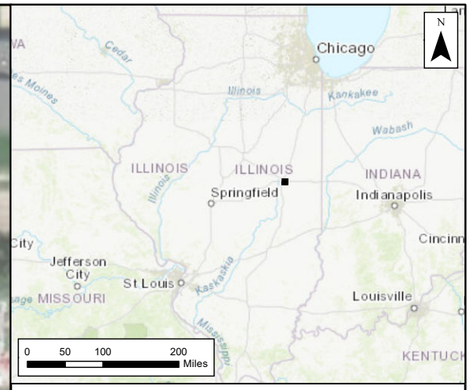

Legend

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

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

N

0 100 200
Feet

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

Environmental Resources Management
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DRAWN BY: GIS

FILE: M:\Projects\0466251 Ameren Champaign\Maps\2019 August GWM\Figure 3 August 19 Exceedances.mxd REVISED: 11/20/2019 SCALE: 1:1,200 when printed at 11x17

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

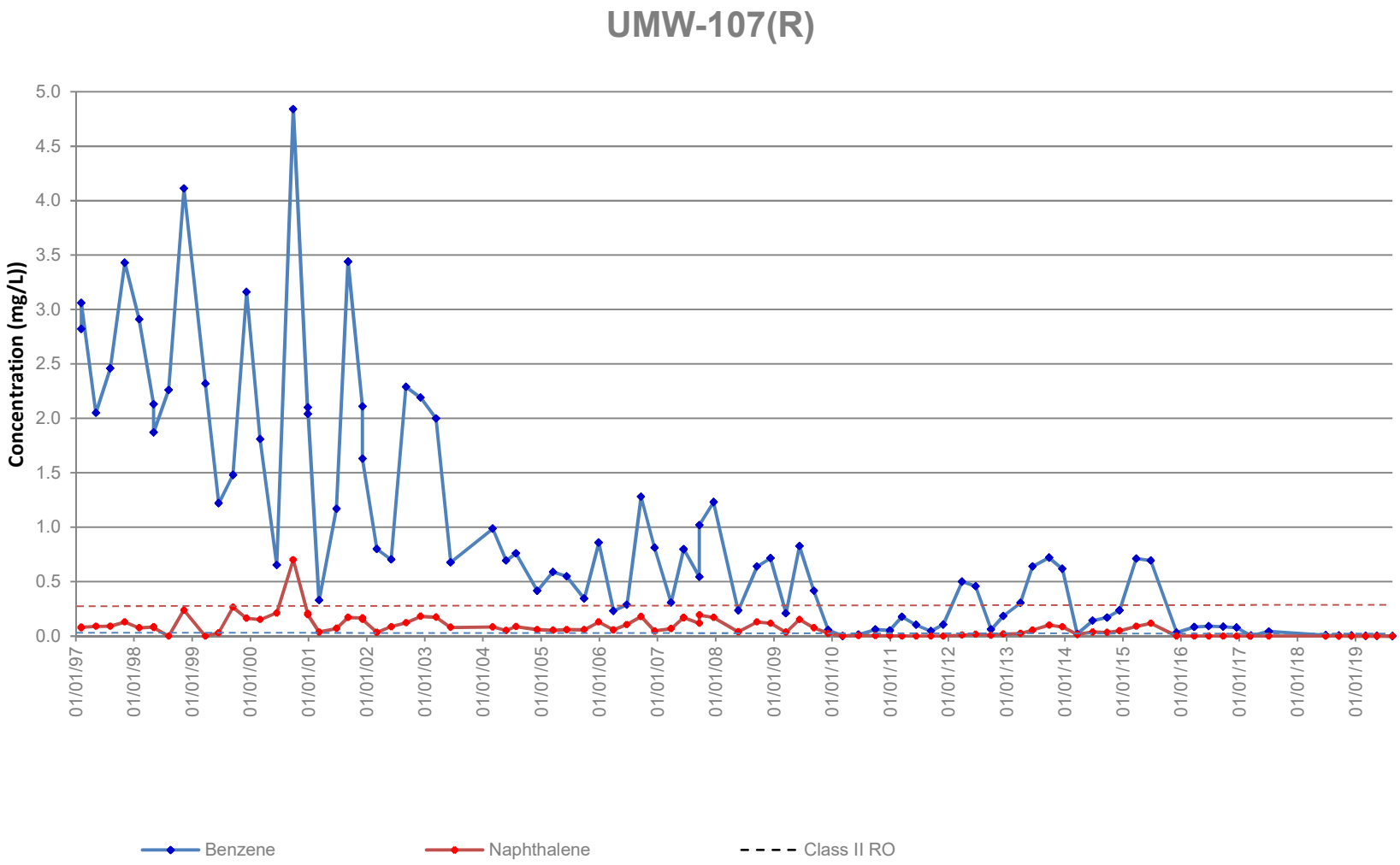


FIGURE 4B
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs

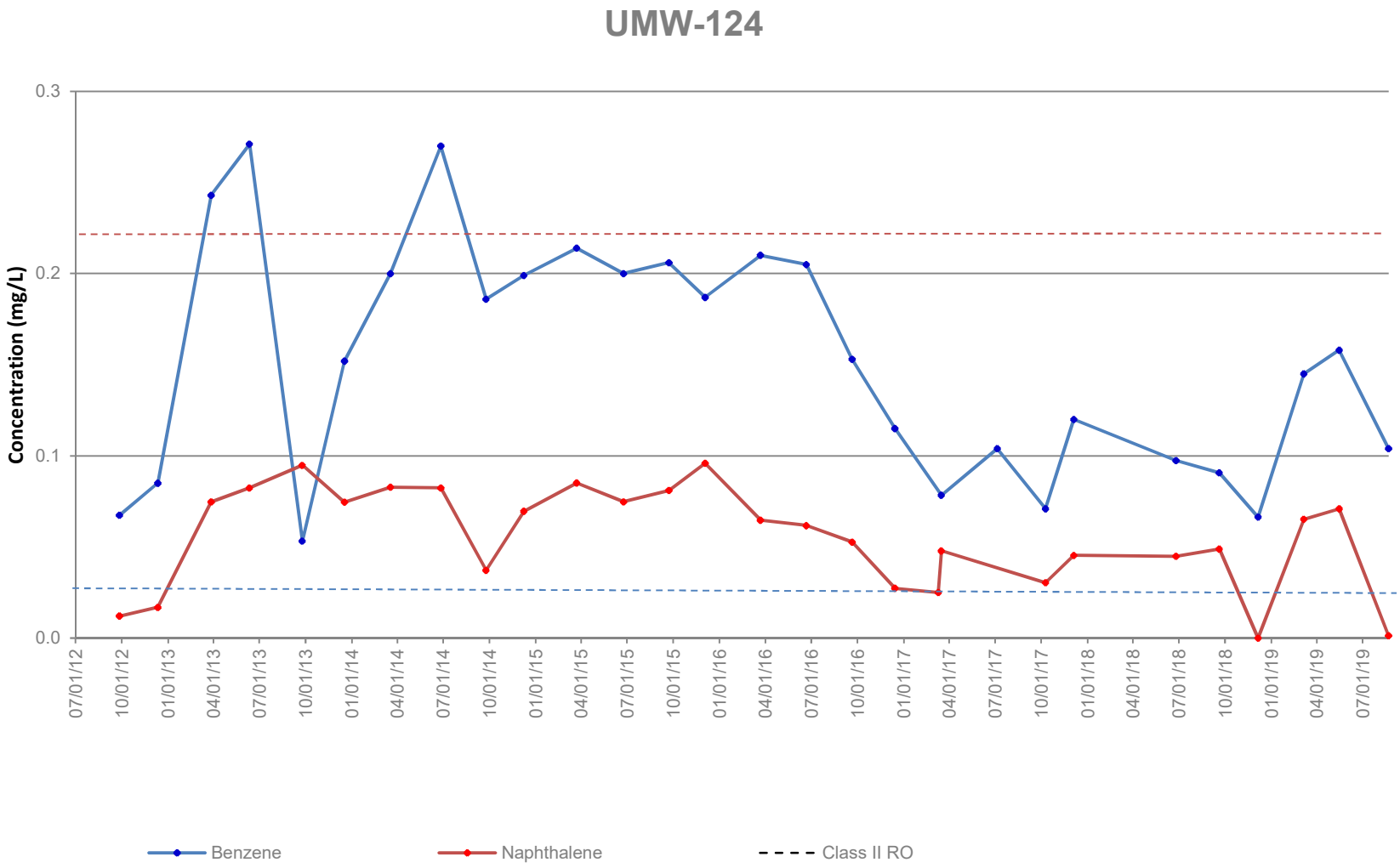


FIGURE 4C
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs

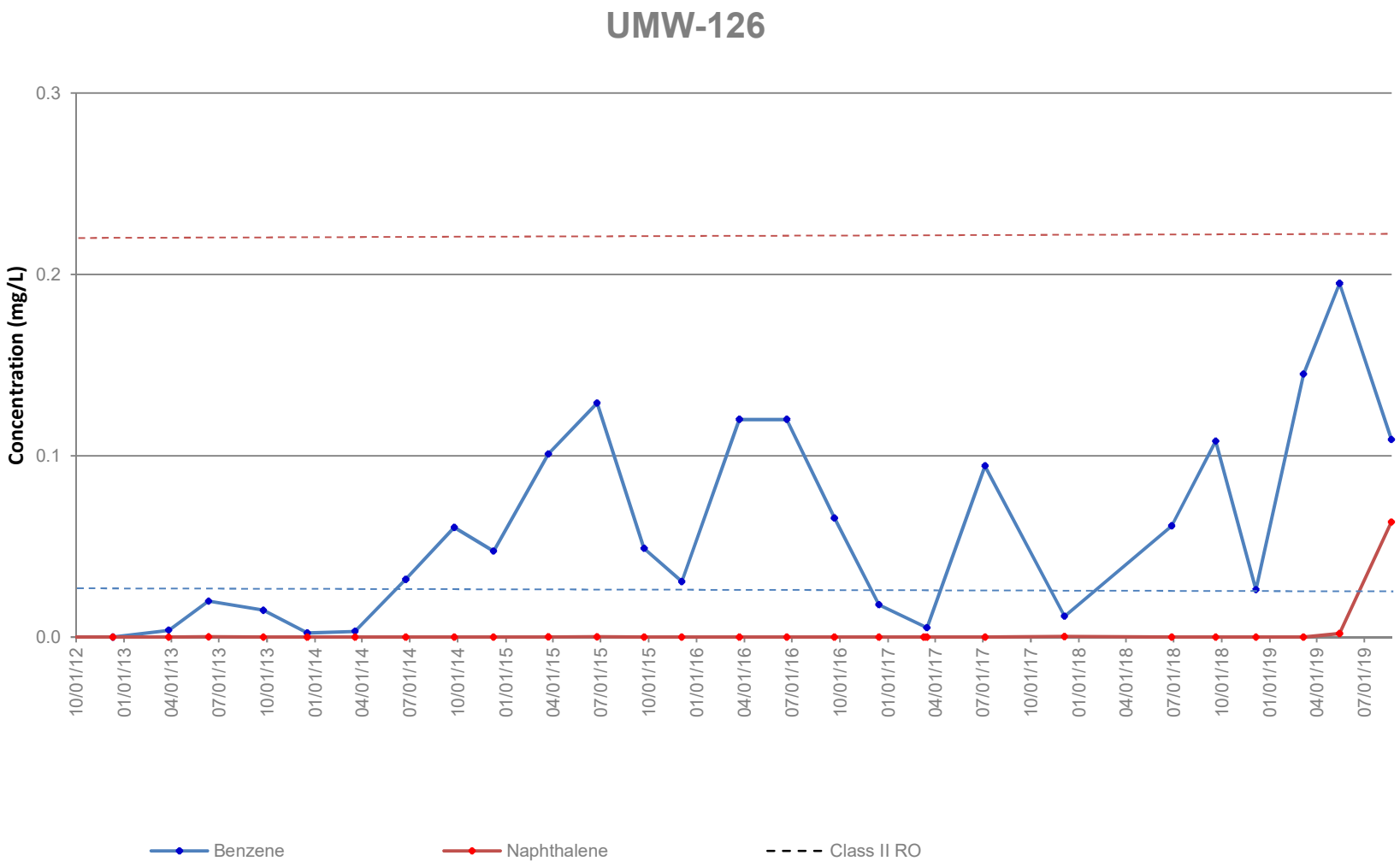
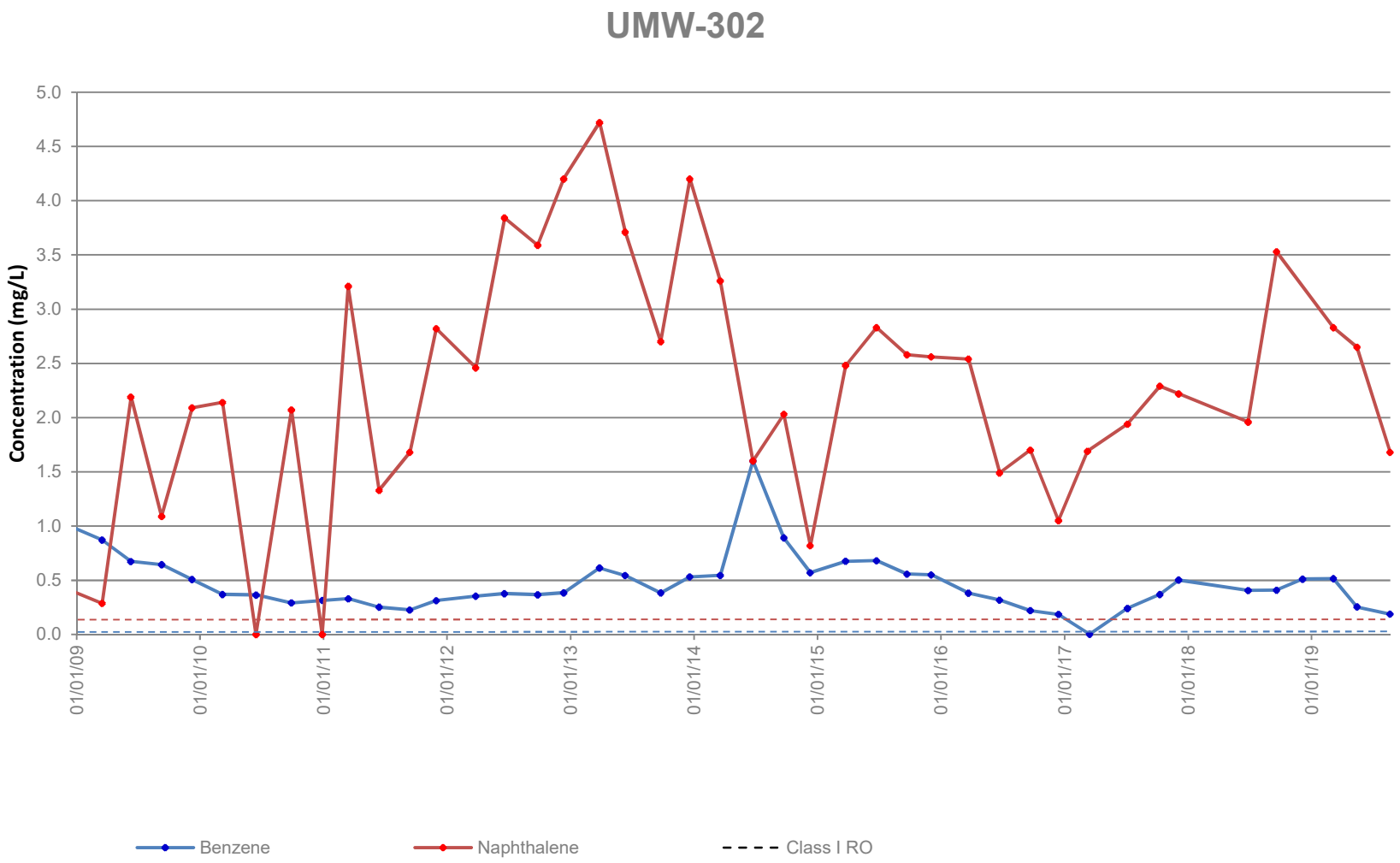


FIGURE 4D
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs



Tables

TABLE 1
Groundwater Elevation Data
August 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)		Aug-19			
				Top of Casing (TOC)	Land Surface (LS)	WL Below MP (feet)	Elevation (feet NGVD)	Purge Vol (Gallons)	Flow Rate (mL/min)
UMW-102	22.00	6.70 - 22.0	20	737.32	737.70	7.08	730.24	3.05	105
UMW-105	19.70	9.50 - 19.70	17.7	737.33	737.70	8.18	729.15	2.00	300
UMW-106R	17.00	7.00 - 17.00	15	737.18	737.43	7.15	730.03	2.00	110
UMW-107R	19.70	9.50 - 19.70	17.7	736.88	737.30	6.21	730.67	2.30	180
UMW-108	15.00	4.80 - 15.00	13	736.86	737.10	6.46	730.40	3.10	180
UMW-109	20.00	10.00 - 20.00	18	735.11	735.50	6.22	728.89	2.30	40
UMW-111A	22.80	9.00 - 22.80	20.3	736.71	737.00	8.38	728.33	2.50	100
UMW-116	20.00	10.00 - 20.00	18	736.23	736.50	6.38	729.85	2.50	150
UMW-117	15.00	5.00 - 15.00	13	737.53	737.81	7.18	730.35	2.00	250
UMW-118	15.00	5.00 - 15.00	13	736.20	736.43	7.33	728.87	1.50	150
UMW-119	15.00	5.00 - 15.00	13	736.80	737.09	6.54	730.26	3.50	186
UMW-120	15.00	5.00 - 15.00	13	737.02	737.53	6.51	730.51	2.50	100
UMW-121	15.00	5.00 - 15.00	13	738.46	738.80	7.31	731.15	1.35	200
UMW-122	19.75	5.00 - 15.00	13	739.15	739.44	9.75	729.40	2.25	140
UMW-123	15.89	5.89 - 15.89	13.9	737.24	737.53	7.88	729.36	2.75	175
UMW-124 *	15.27	4.97 - 15.02	13.3	737.10	737.28	5.13	731.97	2.00	300
UMW-125 *	15.33	5.06 - 15.11	13.1	737.92	738.05	6.02	731.90	1.90	180
UMW-126 *	15.40	5.13 - 15.18	13.4	736.38	736.55	4.42	731.96	3.50	220
UMW-127 *	15.38	5.11 - 15.16	13.4	735.93	736.14	3.92	732.01	4.25	460
UMW-300	45.00	35.00 - 45.00	42	736.57	736.79	27.54	709.03	3.50	200
UMW-301R *	46.65	36.50 - 46.05	44.7	736.11	736.20	27.60	708.51	4.00	340
UMW-302	45.00	35.00 - 45.00	43	738.58	738.88	30.13	708.45	3.00	450
UMW-303	45.00	35.00 - 45.00	43	737.05	737.38	27.74	709.31	3.30	460
UMW-304R *	46.16	36.01 - 45.56	44.2	736.48	736.72	27.87	708.61	4.00	400
UMW-305	45.00	35.00 - 45.00	43	737.51	737.74	29.11	708.40	3.00	450
UMW-306	47.00	37.00 - 47.00	45	736.90	737.18	28.58	708.32	3.50	450
UMW-307	47.00	37.00 - 47.00	45	736.92	737.19	28.62	708.30	3.50	450
UMW-308 *	45.29	35.14 - 44.69	42.7	737.21	737.39	28.78	708.43	3.25	340

Notes:

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

TABLE 2
Summary of Analytical Results
August 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	DUP 001	UMW-108	UMW-109	UMW-111A	UMW-116	UMW-117	UMW-118
			Sample Date	8/19/2019	8/21/2019	8/20/2019	8/20/2019	8/20/2019	8/20/2019	8/20/2019	8/20/2019	8/20/2019	8/20/2019	8/20/2019
			Sample Type	N	N	N	N	FD	N	N	N	N	N	N
Parameter/Analyte	**CLASS I GROUNDWATER INGESTION**	**CLASS II GROUNDWATER INGESTION**	**GW INHALATION DIFFUSION & ADVECTION**											
pH				6.94	6.97	7.09	7.36		6.87	6.94	7.28	6.92	6.57	6.78
Specific Conductance (µS/cm)				844	1402	1779	1737		830	1706	1405	1045	626	699
Temperature (°C)				18.4	17.5	19.7	18.5		19.9	22.0	19.5	18.1	18.2	19.8
ORP (mV)				36.9	52.6	95.1	-140		219.3	-41.3	213.4	101.9	120.3	72.6
Dissolved Oxygen (mg/L)				0.17	1.15	2.98	0.14		0.50	0.81	2.97	0.81	1.45	0.46
Turbidity (NTU)				0.98	1.09	2.59	68.8		14.2	1.04	0.58	0.43	8.71	24.7
01 - BTEX, mg/L														
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 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	< 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	< 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	< 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	< 0.000192	< 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	< 0.000192	< 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	< 0.000192	< 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	< 0.000192	< 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	< 0.000192	< 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	< 0.000192	< 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	< 0.000385	< 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	< 0.000192	< 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	< 0.000192	< 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	< 0.000192	< 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	< 0.000385	< 0.000200
Fluorene	0.28	1.4	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000192	< 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	< 0.000192	< 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	< 0.000385	< 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	< 0.000769	< 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	< 0.000385	< 0.000200
03 - General Chemistry, mg/L														
Cyanide CN-	0.2	0.6	NS	< 0.005	0.042	0.024	0.409	0.409	0.024	0.020	< 0.005	< 0.005	< 0.005	0.029
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	0.0619	0.0584	0.0910	0.148	0.139	0.146	0.103	0.0506 J+	0.0796	0.130	0.127
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	< 0.0020
Chromium	0.1	1	NS	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0666	< 0.0050	0.136	< 0.0050	0.0070
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 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)

TABLE 2
Summary of Analytical Results
August 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 002	UMW-125	UMW-126	UMW-127
			Sample Date	8/19/2019	8/19/2019	8/21/2019	8/20/2019	8/20/2019	8/21/2019	8/21/2019	8/21/2019	8/21/2019	8/21/2019
			Sample Type	N	N	N	N	N	N	FD	N	N	N
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION										
pH				7.14	7.18	6.73	7.06	7.03	10.92		9.88	8.07	12.39
Specific Conductance (µS/cm)				606	611	994	1749	785	1438		2312	1705	2585
Temperature (°C)				17.2	20.2	20.5	17.5	18.9	19.1		17.4	20.5	19.4
ORP (mV)				115.8	48.2	81.2	63.3	72.7	-185.1		135.9	-244.6	-343.2
Dissolved Oxygen (mg/L)				0.61	1.02	0.59	0.33	2.07	0.16		0.11	0.06	0.07
Turbidity (NTU)				10.3	7.57	15	2.78	1.26	29.2		6.03	10.4	88.5
01 - BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.104	**0.116**	0.0065	0.109	0.0024
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0029	0.0138	< 0.0020	0.0143	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0767	< 0.0020	0.0804	< 0.0020
Xylene, Total	10	10	30	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	0.0386	< 0.0040	0.0391	< 0.0040
02 - PAH, mg/L													
Acenaphthene	0.42	2.1	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000471	< 0.000100	0.000616	0.000199
Acenaphthylene	0.21	1.05	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000311	< 0.000100	0.000382	< 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	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000167	< 0.000100	0.000218	0.000159
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	0.00125 J+	0.0436	0.000517 J+	0.0634	0.00195 J+
Phenanthrene	0.21	1.05	NS	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	0.000445
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	0.035	< 0.005	0.099	0.013	< 0.005	< 0.005	0.012	0.031	< 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
Barium	2	2	NS	0.0927	0.0337 J+	0.120	0.0450 J+	0.0217 J+	0.0495 J+	0.0310 J+	0.0219 J+	0.0303 J+	0.168
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
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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)

TABLE 2
Summary of Analytical Results
August 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	8/19/2019	8/21/2019	8/21/2019	8/21/2019	8/20/2019	8/21/2019	8/21/2019	8/21/2019	8/20/2019	8/21/2019
			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										
pH				7.02	7.89	7.30		7.29	7.69	7.22	7.29	7.32	7.56
Specific Conductance (µS/cm)				1384	840	1209		883	949	940	1044	1112	963
Temperature (°C)				16.5	16.3	15.4		15.3	15.5	15.3	15.1	15.4	16.0
ORP (mV)				-33.3	36.5	-132.4		-60.9	-117.9	-108.6	-112.6	-122.8	-120.4
Dissolved Oxygen (mg/L)				0.63	0.19	0.19		0.19	0.33	0.27	0.30	0.23	0.76
Turbidity (NTU)				0.49	9.55	0.42		11	6.91	3.61		2.71	50
01 - BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	< 0.0005 UJ	< 0.0005	**0.188**	**0.215**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005 UJ	< 0.0005
Ethylbenzene	0.7	1	**0.37**	< 0.0020 UJ	< 0.0020	**0.697**	**0.741**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020 UJ	< 0.0020
Toluene	1	2.5	530	< 0.0020 UJ	< 0.0020	< 0.0400	0.0075	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020 UJ	< 0.0020
Xylene, Total	10	10	30	< 0.0040 UJ	< 0.0040	0.179	0.228	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040 UJ	< 0.0040
02 - PAH, mg/L													
Acenaphthene	0.42	2.1	NS	< 0.000100	0.00317	0.000467	0.000358	< 0.000100	0.000313	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Acenaphthylene	0.21	1.05	NS	< 0.000100	0.00403	0.000498	0.000370	< 0.000100	0.000697	< 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	< 0.000100	< 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	0.000245	< 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	**1.68**	**1.14**	< 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	< 0.000200	< 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 R	0.152	0.146	< 0.005	< 0.005	0.008	0.020	0.032	0.015
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	0.0942	0.0762	0.0608	0.0603	0.0408 J+	0.0811	0.0970	0.120	0.109	0.116
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:
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Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
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TB = Trip Blank Sample
NS = No Standard
mg/L = milligrams per liter
Qualifiers - Inorganic:
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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)

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

			Location Group	03 - Field Quality Control	
			Location ID	Equipment Blank	Trip Blank
			Sample Date	8/21/2019	8/22/2019
			Sample Type	EB	TB
Parameter/Analyte	**CLASS I GROUNDWATER INGESTION**	**CLASS II GROUNDWATER INGESTION**	**GW INHALATION DIFFUSION & ADVECTION**		
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	
Acenaphthylene	0.21	1.05	NS	< 0.000100	
Anthracene	2.1	10.5	NS	< 0.000100	
Benzo(a)anthracene	0.00013	0.00065	NS	< 0.000100	
Benzo(a)pyrene	0.0002	0.002	NS	< 0.000100	
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100	
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200	
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.000100	
Chrysene	0.0015	0.0075	NS	< 0.000100	
Dibenzo(a,h)anthracene	0.0003	0.0015	NS	< 0.000100	
Fluoranthene	0.28	1.4	NS	< 0.000200	
Fluorene	0.28	1.4	NS	< 0.000100	
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000100	
Naphthalene	0.14	0.22	**0.075**	0.000401	
Phenanthrene	0.21	1.05	NS	< 0.000400	
Pyrene	0.21	1.05	NS	< 0.000200	
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	0.0056	
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 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)

TABLE 3
Analytical Results by Parameter
October 2017 to August 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
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
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
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
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
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

TABLE 3
Analytical Results by Parameter
October 2017 to August 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
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
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
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
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
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

TABLE 3
Analytical Results by Parameter
October 2017 to August 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
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
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
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
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
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

TABLE 3
Analytical Results by Parameter
October 2017 to August 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
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
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
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
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
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

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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
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
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
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
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
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

TABLE 3
Analytical Results by Parameter
October 2017 to August 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
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
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
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
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
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

TABLE 3
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October 2017 to August 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
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
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
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
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
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

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Ameren - Champaign FMGP Site
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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
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
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
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
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
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

TABLE 3
Analytical Results by Parameter
October 2017 to August 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
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
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
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

TABLE 3
Analytical Results by Parameter
October 2017 to August 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
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
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
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

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

August 29, 2019

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

RE: Champaign GW **WorkOrder:** 19081552

Dear Greg Moore:

TEKLAB, INC received 33 samples on 8/22/2019 4:00:00 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

Report Contents

http://www.teklabinc.com/

Client: ERM
Work Order: 19081552
Client Project: Champaign GW
Report Date: 29-Aug-2019

This reporting package includes the following:

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-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: 19081552
Report Date: 29-Aug-2019

Cooler Receipt Temp: 2.4 °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

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Lenexa, KS 66214
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Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
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Email arenner@teklabinc.com

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-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		5/31/2019	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		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2020	Collinsville

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-001 **Client Sample ID:** UMW-102-WG-20190819

Matrix: GROUNDWATER **Collection Date:** 08/19/2019 16:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 13:05	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 18:23	156700
Barium	NELAP	0.0025		**0.0619**	mg/L	1	08/26/2019 18:23	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 18:23	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 18:23	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 18:23	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 18:23	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 18:23	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 16:56	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 16:33	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 16:33	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 16:33	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 16:33	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 16:33	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 16:33	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**72.0**	%REC	1	08/26/2019 16:33	156710
Surr: Nitrobenzene-d5	*	15-163		**75.9**	%REC	1	08/26/2019 16:33	156710
Surr: p-Terphenyl-d14	*	10-173		**104.4**	%REC	1	08/26/2019 16:33	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 18:06	156688
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:06	156688
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:06	156688
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 18:06	156688
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.8**	%REC	1	08/23/2019 18:06	156688
Surr: 4-Bromofluorobenzene	*	83.9-115		**104.0**	%REC	1	08/23/2019 18:06	156688
Surr: Dibromofluoromethane	*	84.9-113		**100.4**	%REC	1	08/23/2019 18:06	156688
Surr: Toluene-d8	*	86.7-112		**96.1**	%REC	1	08/23/2019 18:06	156688

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-002 **Client Sample ID:** UMW-105-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 11:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.042**	mg/L	1	08/26/2019 11:25	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 18:26	156700
Barium	NELAP	0.0025		**0.0584**	mg/L	1	08/26/2019 18:26	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 18:26	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 18:26	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 18:26	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 18:26	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 18:26	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 16:59	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 23:01	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 23:01	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 23:01	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 23:01	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 23:01	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 23:01	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**72.1**	%REC	1	08/26/2019 23:01	156710
Surr: Nitrobenzene-d5	*	15-163		**75.4**	%REC	1	08/26/2019 23:01	156710
Surr: p-Terphenyl-d14	*	10-173		**108.6**	%REC	1	08/26/2019 23:01	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 18:32	156688
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:32	156688
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:32	156688
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 18:32	156688
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.0**	%REC	1	08/23/2019 18:32	156688
Surr: 4-Bromofluorobenzene	*	83.9-115		**102.8**	%REC	1	08/23/2019 18:32	156688
Surr: Dibromofluoromethane	*	84.9-113		**98.8**	%REC	1	08/23/2019 18:32	156688
Surr: Toluene-d8	*	86.7-112		**99.6**	%REC	1	08/23/2019 18:32	156688

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-003 **Client Sample ID:** UMW-106R-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 19:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.024**	mg/L	1	08/26/2019 13:13	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 18:37	156700
Barium	NELAP	0.0025		**0.0910**	mg/L	1	08/26/2019 18:37	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 18:37	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 18:37	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 18:37	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 18:37	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 18:37	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:05	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:16	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:16	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:16	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:16	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 17:16	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:16	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**75.1**	%REC	1	08/26/2019 17:16	156710
Surr: Nitrobenzene-d5	*	15-163		**72.9**	%REC	1	08/26/2019 17:16	156710
Surr: p-Terphenyl-d14	*	10-173		**101.8**	%REC	1	08/26/2019 17:16	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 19:00	156688
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 19:00	156688
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 19:00	156688
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 19:00	156688
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.7**	%REC	1	08/23/2019 19:00	156688
Surr: 4-Bromofluorobenzene	*	83.9-115		**103.0**	%REC	1	08/23/2019 19:00	156688
Surr: Dibromofluoromethane	*	84.9-113		**99.0**	%REC	1	08/23/2019 19:00	156688
Surr: Toluene-d8	*	86.7-112		**96.3**	%REC	1	08/23/2019 19:00	156688

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-004 **Client Sample ID:** UMW-107R-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 15:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.050		**0.409**	mg/L	10	08/26/2019 16:11	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 18:41	156700
Barium	NELAP	0.0025		**0.148**	mg/L	1	08/26/2019 18:41	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 18:41	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 18:41	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 18:41	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 18:41	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 18:41	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:08	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:55	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:55	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 17:55	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:55	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 17:55	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 17:55	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**78.5**	%REC	1	08/26/2019 17:55	156710
Surr: Nitrobenzene-d5	*	15-163		**75.6**	%REC	1	08/26/2019 17:55	156710
Surr: p-Terphenyl-d14	*	10-173		**108.5**	%REC	1	08/26/2019 17:55	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 17:09	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 17:09	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 17:09	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 17:09	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.5**	%REC	1	08/23/2019 17:09	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.6**	%REC	1	08/23/2019 17:09	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.1**	%REC	1	08/23/2019 17:09	156712
Surr: Toluene-d8	*	86.7-112		**103.6**	%REC	1	08/23/2019 17:09	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-005 **Client Sample ID:** UMW-108-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 10:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.024**	mg/L	1	08/26/2019 13:22	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 18:45	156700
Barium	NELAP	0.0025		**0.146**	mg/L	1	08/26/2019 18:45	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 18:45	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 18:45	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 18:45	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 18:45	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 18:45	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:10	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 18:34	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 18:34	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 18:34	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 18:34	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 18:34	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 18:34	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**77.8**	%REC	1	08/26/2019 18:34	156710
Surr: Nitrobenzene-d5	*	15-163		**72.6**	%REC	1	08/26/2019 18:34	156710
Surr: p-Terphenyl-d14	*	10-173		**102.5**	%REC	1	08/26/2019 18:34	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 17:36	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 17:36	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 17:36	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 17:36	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.8**	%REC	1	08/23/2019 17:36	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.1**	%REC	1	08/23/2019 17:36	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.0**	%REC	1	08/23/2019 17:36	156712
Surr: Toluene-d8	*	86.7-112		**103.0**	%REC	1	08/23/2019 17:36	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-006 **Client Sample ID:** UMW-109-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 9:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.020**	mg/L	1	08/26/2019 13:48	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 18:59	156700
Barium	NELAP	0.0025		**0.103**	mg/L	1	08/26/2019 18:59	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 18:59	156700
Chromium	NELAP	0.0050		**0.0666**	mg/L	1	08/26/2019 18:59	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 18:59	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 18:59	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 18:59	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:12	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:12	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:12	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:12	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:12	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 19:12	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:12	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**76.2**	%REC	1	08/26/2019 19:12	156710
Surr: Nitrobenzene-d5	*	15-163		**75.2**	%REC	1	08/26/2019 19:12	156710
Surr: p-Terphenyl-d14	*	10-173		**101.0**	%REC	1	08/26/2019 19:12	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 18:03	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:03	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:03	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 18:03	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.3**	%REC	1	08/23/2019 18:03	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.4**	%REC	1	08/23/2019 18:03	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.2**	%REC	1	08/23/2019 18:03	156712
Surr: Toluene-d8	*	86.7-112		**103.1**	%REC	1	08/23/2019 18:03	156712

Client: ERM
Work Order: 19081552
Client Project: Champaign GW
Report Date: 29-Aug-2019
Lab ID: 19081552-007
Client Sample ID: UMW-111A-WG-20190820
Matrix: GROUNDWATER
Collection Date: 08/20/2019 9:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 13:52	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:03	156700
Barium	NELAP	0.0025		**0.0506**	mg/L	1	08/26/2019 19:03	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:03	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:03	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:03	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:03	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:03	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:14	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:50	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:50	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 19:50	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:50	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 19:50	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 19:50	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**84.2**	%REC	1	08/26/2019 19:50	156710
Surr: Nitrobenzene-d5	*	15-163		**81.8**	%REC	1	08/26/2019 19:50	156710
Surr: p-Terphenyl-d14	*	10-173		**118.1**	%REC	1	08/26/2019 19:50	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 18:30	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:30	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:30	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 18:30	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.8**	%REC	1	08/23/2019 18:30	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.4**	%REC	1	08/23/2019 18:30	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.4**	%REC	1	08/23/2019 18:30	156712
Surr: Toluene-d8	*	86.7-112		**102.3**	%REC	1	08/23/2019 18:30	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-008 **Client Sample ID:** UMW-116-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 16:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 14:01	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:07	156700
Barium	NELAP	0.0025		**0.0796**	mg/L	1	08/26/2019 19:07	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:07	156700
Chromium	NELAP	0.0050		**0.136**	mg/L	1	08/26/2019 19:07	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:07	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:07	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:07	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:16	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 22:23	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 22:23	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 22:23	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 22:23	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 22:23	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 22:23	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**74.4**	%REC	1	08/26/2019 22:23	156710
Surr: Nitrobenzene-d5	*	15-163		**78.0**	%REC	1	08/26/2019 22:23	156710
Surr: p-Terphenyl-d14	*	10-173		**98.9**	%REC	1	08/26/2019 22:23	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 18:56	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:56	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 18:56	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 18:56	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.3**	%REC	1	08/23/2019 18:56	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.4**	%REC	1	08/23/2019 18:56	156712
Surr: Dibromofluoromethane	*	84.9-113		**97.2**	%REC	1	08/23/2019 18:56	156712
Surr: Toluene-d8	*	86.7-112		**103.5**	%REC	1	08/23/2019 18:56	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-009 **Client Sample ID:** UMW-117-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 14:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 14:06	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:10	156700
Barium	NELAP	0.0025		**0.130**	mg/L	1	08/26/2019 19:10	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:10	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:10	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:10	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:10	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:10	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:23	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Acenaphthylene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Anthracene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Benzo(a)anthracene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Benzo(a)pyrene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Benzo(b)fluoranthene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Benzo(g,h,i)perylene	NELAP	0.000385		**ND**	mg/L	1	08/27/2019 16:59	156710
Benzo(k)fluoranthene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Chrysene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Dibenzo(a,h)anthracene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Fluoranthene	NELAP	0.000385		**ND**	mg/L	1	08/27/2019 16:59	156710
Fluorene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000192		**ND**	mg/L	1	08/27/2019 16:59	156710
Naphthalene	NELAP	0.000385		**ND**	mg/L	1	08/27/2019 16:59	156710
Phenanthrene	NELAP	0.000769		**ND**	mg/L	1	08/27/2019 16:59	156710
Pyrene	NELAP	0.000385		**ND**	mg/L	1	08/27/2019 16:59	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**63.7**	%REC	1	08/27/2019 16:59	156710
Surr: Nitrobenzene-d5	*	15-163		**69.3**	%REC	1	08/27/2019 16:59	156710
Surr: p-Terphenyl-d14	*	10-173		**98.1**	%REC	1	08/27/2019 16:59	156710
Elevated reporting limits due to limited sample upon re-extraction.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 19:23	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 19:23	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 19:23	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 19:23	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.4**	%REC	1	08/23/2019 19:23	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.7**	%REC	1	08/23/2019 19:23	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.0**	%REC	1	08/23/2019 19:23	156712
Surr: Toluene-d8	*	86.7-112		**103.0**	%REC	1	08/23/2019 19:23	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-010 **Client Sample ID:** UMW-118-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 11:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.029**	mg/L	1	08/26/2019 14:14	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:14	156700
Barium	NELAP	0.0025		**0.127**	mg/L	1	08/26/2019 19:14	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:14	156700
Chromium	NELAP	0.0050		**0.0070**	mg/L	1	08/26/2019 19:14	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:14	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:14	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:14	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:25	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 16:21	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 16:21	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 16:21	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 16:21	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 16:21	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 16:21	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**80.4**	%REC	1	08/27/2019 16:21	156710
Surr: Nitrobenzene-d5	*	15-163		**73.3**	%REC	1	08/27/2019 16:21	156710
Surr: p-Terphenyl-d14	*	10-173		**111.4**	%REC	1	08/27/2019 16:21	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 19:50	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 19:50	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 19:50	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 19:50	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.7**	%REC	1	08/23/2019 19:50	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**102.1**	%REC	1	08/23/2019 19:50	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.4**	%REC	1	08/23/2019 19:50	156712
Surr: Toluene-d8	*	86.7-112		**103.1**	%REC	1	08/23/2019 19:50	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-011 **Client Sample ID:** UMW-119-WG-20190819

Matrix: GROUNDWATER **Collection Date:** 08/19/2019 18:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.035**	mg/L	1	08/26/2019 14:18	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:18	156700
Barium	NELAP	0.0025		**0.0927**	mg/L	1	08/26/2019 19:18	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:18	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:18	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:18	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:18	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:18	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:28	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 20:28	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 20:28	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 20:28	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 20:28	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 20:28	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 20:28	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**78.6**	%REC	1	08/26/2019 20:28	156710
Surr: Nitrobenzene-d5	*	15-163		**76.9**	%REC	1	08/26/2019 20:28	156710
Surr: p-Terphenyl-d14	*	10-173		**114.1**	%REC	1	08/26/2019 20:28	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 20:17	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 20:17	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 20:17	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 20:17	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.1**	%REC	1	08/23/2019 20:17	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.8**	%REC	1	08/23/2019 20:17	156712
Surr: Dibromofluoromethane	*	84.9-113		**97.2**	%REC	1	08/23/2019 20:17	156712
Surr: Toluene-d8	*	86.7-112		**102.3**	%REC	1	08/23/2019 20:17	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-012 **Client Sample ID:** UMW-120-WG-20190819

Matrix: GROUNDWATER **Collection Date:** 08/19/2019 17:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 14:27	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:21	156700
Barium	NELAP	0.0025		**0.0337**	mg/L	1	08/26/2019 19:21	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:21	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:21	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:21	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:21	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:21	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:30	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:06	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:06	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:06	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:06	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 21:06	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:06	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**70.8**	%REC	1	08/26/2019 21:06	156710
Surr: Nitrobenzene-d5	*	15-163		**75.1**	%REC	1	08/26/2019 21:06	156710
Surr: p-Terphenyl-d14	*	10-173		**117.2**	%REC	1	08/26/2019 21:06	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 20:43	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 20:43	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 20:43	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 20:43	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.8**	%REC	1	08/23/2019 20:43	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.2**	%REC	1	08/23/2019 20:43	156712
Surr: Dibromofluoromethane	*	84.9-113		**97.9**	%REC	1	08/23/2019 20:43	156712
Surr: Toluene-d8	*	86.7-112		**103.6**	%REC	1	08/23/2019 20:43	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-013 **Client Sample ID:** UMW-121-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 12:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.099**	mg/L	5	08/26/2019 18:08	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:25	156700
Barium	NELAP	0.0025		**0.120**	mg/L	1	08/26/2019 19:25	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:25	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:25	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:25	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:25	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:25	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:32	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 17:38	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 17:38	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 17:38	156749
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 17:38	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 17:38	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 17:38	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**72.0**	%REC	1	08/27/2019 17:38	156749
Surr: Nitrobenzene-d5	*	15-163		**81.9**	%REC	1	08/27/2019 17:38	156749
Surr: p-Terphenyl-d14	*	10-173		**103.8**	%REC	1	08/27/2019 17:38	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 21:10	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 21:10	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 21:10	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 21:10	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.4**	%REC	1	08/23/2019 21:10	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.4**	%REC	1	08/23/2019 21:10	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.8**	%REC	1	08/23/2019 21:10	156712
Surr: Toluene-d8	*	86.7-112		**103.6**	%REC	1	08/23/2019 21:10	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-014 **Client Sample ID:** UMW-122-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 17:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.013**	mg/L	1	08/26/2019 14:31	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:47	156700
Barium	NELAP	0.0025		**0.0450**	mg/L	1	08/26/2019 19:47	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:47	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:47	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:47	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:47	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:47	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:39	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:12	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:12	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:12	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:12	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 11:12	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:12	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**21.5**	%REC	1	08/27/2019 11:12	156710
Surr: Nitrobenzene-d5	*	15-163		**25.4**	%REC	1	08/27/2019 11:12	156710
Surr: p-Terphenyl-d14	*	10-173		**29.6**	%REC	1	08/27/2019 11:12	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 21:37	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 21:37	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 21:37	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 21:37	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.3**	%REC	1	08/23/2019 21:37	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.3**	%REC	1	08/23/2019 21:37	156712
Surr: Dibromofluoromethane	*	84.9-113		**95.8**	%REC	1	08/23/2019 21:37	156712
Surr: Toluene-d8	*	86.7-112		**103.5**	%REC	1	08/23/2019 21:37	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-015 **Client Sample ID:** UMW-123-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 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	08/26/2019 14:40	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:51	156700
Barium	NELAP	0.0025		**0.0217**	mg/L	1	08/26/2019 19:51	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:51	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:51	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:51	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:51	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:51	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 17:41	156677
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:50	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:50	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 11:50	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:50	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 11:50	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 11:50	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**72.4**	%REC	1	08/27/2019 11:50	156710
Surr: Nitrobenzene-d5	*	15-163		**73.0**	%REC	1	08/27/2019 11:50	156710
Surr: p-Terphenyl-d14	*	10-173		**98.0**	%REC	1	08/27/2019 11:50	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/23/2019 22:04	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 22:04	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 22:04	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 22:04	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.1**	%REC	1	08/23/2019 22:04	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.2**	%REC	1	08/23/2019 22:04	156712
Surr: Dibromofluoromethane	*	84.9-113		**95.8**	%REC	1	08/23/2019 22:04	156712
Surr: Toluene-d8	*	86.7-112		**102.8**	%REC	1	08/23/2019 22:04	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-016 **Client Sample ID:** UMW-124-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 14:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 14:44	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:54	156700
Barium	NELAP	0.0025		**0.0495**	mg/L	1	08/26/2019 19:54	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:54	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:54	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:54	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:54	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:54	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:14	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 19:31	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 19:31	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 19:31	156749
Naphthalene	NELAP	0.000200		**0.00125**	mg/L	1	08/27/2019 19:31	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 19:31	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 19:31	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**78.4**	%REC	1	08/27/2019 19:31	156749
Surr: Nitrobenzene-d5	*	15-163		**80.0**	%REC	1	08/27/2019 19:31	156749
Surr: p-Terphenyl-d14	*	10-173		**108.0**	%REC	1	08/27/2019 19:31	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**104**	µg/L	1	08/23/2019 22:31	156712
Ethylbenzene	NELAP	2.0		**2.9**	µg/L	1	08/23/2019 22:31	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 22:31	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 22:31	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.1**	%REC	1	08/23/2019 22:31	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.9**	%REC	1	08/23/2019 22:31	156712
Surr: Dibromofluoromethane	*	84.9-113		**95.9**	%REC	1	08/23/2019 22:31	156712
Surr: Toluene-d8	*	86.7-112		**103.2**	%REC	1	08/23/2019 22:31	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-017 **Client Sample ID:** UMW-125-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 8:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.031**	mg/L	1	08/26/2019 15:10	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 19:58	156700
Barium	NELAP	0.0025		**0.0219**	mg/L	1	08/26/2019 19:58	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 19:58	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 19:58	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 19:58	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 19:58	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 19:58	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:20	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 12:28	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 12:28	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 12:28	156710
Naphthalene	NELAP	0.000200		**0.000517**	mg/L	1	08/27/2019 12:28	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 12:28	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 12:28	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**74.9**	%REC	1	08/27/2019 12:28	156710
Surr: Nitrobenzene-d5	*	15-163		**77.7**	%REC	1	08/27/2019 12:28	156710
Surr: p-Terphenyl-d14	*	10-173		**98.0**	%REC	1	08/27/2019 12:28	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**6.5**	µg/L	1	08/23/2019 22:57	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 22:57	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 22:57	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 22:57	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.1**	%REC	1	08/23/2019 22:57	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.6**	%REC	1	08/23/2019 22:57	156712
Surr: Dibromofluoromethane	*	84.9-113		**95.8**	%REC	1	08/23/2019 22:57	156712
Surr: Toluene-d8	*	86.7-112		**102.6**	%REC	1	08/23/2019 22:57	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-018 **Client Sample ID:** UMW-126-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 15:15	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:02	156700
Barium	NELAP	0.0025		**0.0303**	mg/L	1	08/26/2019 20:02	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:02	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:02	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:02	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:02	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:02	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:23	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000616**	mg/L	1	08/27/2019 20:09	156749
Acenaphthylene	NELAP	0.000100		**0.000382**	mg/L	1	08/27/2019 20:09	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 20:09	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 20:09	156749
Fluorene	NELAP	0.000100		**0.000218**	mg/L	1	08/27/2019 20:09	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:09	156749
Naphthalene	NELAP	0.00500		**0.0634**	mg/L	25	08/28/2019 15:09	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 20:09	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 20:09	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**74.1**	%REC	1	08/27/2019 20:09	156749
Surr: Nitrobenzene-d5	*	15-163		**75.4**	%REC	1	08/27/2019 20:09	156749
Surr: p-Terphenyl-d14	*	10-173		**101.6**	%REC	1	08/27/2019 20:09	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**109**	µg/L	1	08/23/2019 23:24	156712
Ethylbenzene	NELAP	2.0		**14.3**	µg/L	1	08/23/2019 23:24	156712
Toluene	NELAP	2.0		**80.4**	µg/L	1	08/23/2019 23:24	156712
Xylenes, Total	NELAP	4.0		**39.1**	µg/L	1	08/23/2019 23:24	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.9**	%REC	1	08/23/2019 23:24	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.2**	%REC	1	08/23/2019 23:24	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.6**	%REC	1	08/23/2019 23:24	156712
Surr: Toluene-d8	*	86.7-112		**102.3**	%REC	1	08/23/2019 23:24	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-019 **Client Sample ID:** UMW-127-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 10:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 16:24	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:05	156700
Barium	NELAP	0.0025		**0.168**	mg/L	1	08/26/2019 20:05	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:05	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:05	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:05	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:05	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:05	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:25	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000199**	mg/L	1	08/27/2019 20:46	156749
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 20:46	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 20:46	156749
Fluorene	NELAP	0.000100		**0.000159**	mg/L	1	08/27/2019 20:46	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 20:46	156749
Naphthalene	NELAP	0.000200		**0.00195**	mg/L	1	08/27/2019 20:46	156749
Phenanthrene	NELAP	0.000400		**0.000445**	mg/L	1	08/27/2019 20:46	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 20:46	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**88.3**	%REC	1	08/27/2019 20:46	156749
Surr: Nitrobenzene-d5	*	15-163		**88.3**	%REC	1	08/27/2019 20:46	156749
Surr: p-Terphenyl-d14	*	10-173		**102.8**	%REC	1	08/27/2019 20:46	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**2.4**	µg/L	1	08/23/2019 23:50	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 23:50	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/23/2019 23:50	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/23/2019 23:50	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.2**	%REC	1	08/23/2019 23:50	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.7**	%REC	1	08/23/2019 23:50	156712
Surr: Dibromofluoromethane	*	84.9-113		**96.2**	%REC	1	08/23/2019 23:50	156712
Surr: Toluene-d8	*	86.7-112		**102.3**	%REC	1	08/23/2019 23:50	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-020 **Client Sample ID:** UMW-300-WG-20190819

Matrix: GROUNDWATER **Collection Date:** 08/19/2019 18:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 16:28	156687
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:09	156700
Barium	NELAP	0.0025		**0.0942**	mg/L	1	08/26/2019 20:09	156700
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:09	156700
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:09	156700
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:09	156700
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:09	156700
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:09	156700
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:32	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:45	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:45	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/26/2019 21:45	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:45	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/26/2019 21:45	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/26/2019 21:45	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**71.1**	%REC	1	08/26/2019 21:45	156710
Surr: Nitrobenzene-d5	*	15-163		**77.9**	%REC	1	08/26/2019 21:45	156710
Surr: p-Terphenyl-d14	*	10-173		**108.1**	%REC	1	08/26/2019 21:45	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/24/2019 0:17	156712
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/24/2019 0:17	156712
Toluene	NELAP	2.0		**ND**	µg/L	1	08/24/2019 0:17	156712
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/24/2019 0:17	156712
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**100.9**	%REC	1	08/24/2019 0:17	156712
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.9**	%REC	1	08/24/2019 0:17	156712
Surr: Dibromofluoromethane	*	84.9-113		**94.7**	%REC	1	08/24/2019 0:17	156712
Surr: Toluene-d8	*	86.7-112		**102.5**	%REC	1	08/24/2019 0:17	156712

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-021 **Client Sample ID:** UMW-301R-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 11:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005	R	**< 0.005**	mg/L	1	08/26/2019 12:30	156689
RPD for MS/MSD was outside control limits.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:35	156701
Barium	NELAP	0.0025		**0.0762**	mg/L	1	08/26/2019 20:35	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:35	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:35	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:35	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:35	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:35	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:38	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.00317**	mg/L	1	08/28/2019 0:35	156749
Acenaphthylene	NELAP	0.000100		**0.00403**	mg/L	1	08/28/2019 0:35	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 0:35	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 0:35	156749
Fluorene	NELAP	0.000100		**0.000245**	mg/L	1	08/28/2019 0:35	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 0:35	156749
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 0:35	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 0:35	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 0:35	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**77.7**	%REC	1	08/28/2019 0:35	156749
Surr: Nitrobenzene-d5	*	15-163		**79.0**	%REC	1	08/28/2019 0:35	156749
Surr: p-Terphenyl-d14	*	10-173		**105.1**	%REC	1	08/28/2019 0:35	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 13:29	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 13:29	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 13:29	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 13:29	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**105.1**	%REC	1	08/26/2019 13:29	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.8**	%REC	1	08/26/2019 13:29	156726
Surr: Dibromofluoromethane	*	84.9-113		**98.5**	%REC	1	08/26/2019 13:29	156726
Surr: Toluene-d8	*	86.7-112		**102.8**	%REC	1	08/26/2019 13:29	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-022 **Client Sample ID:** UMW-302-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 13:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.152**	mg/L	5	08/28/2019 10:17	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:45	156701
Barium	NELAP	0.0025		**0.0608**	mg/L	1	08/26/2019 20:45	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:45	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:45	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:45	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:45	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:45	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:41	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000467**	mg/L	1	08/28/2019 1:13	156749
Acenaphthylene	NELAP	0.000100		**0.000498**	mg/L	1	08/28/2019 1:13	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 1:13	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 1:13	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:13	156749
Naphthalene	NELAP	0.400		**1.68**	mg/L	2000	08/28/2019 18:18	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 1:13	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 1:13	156749
Surr: 2-Fluorobiphenyl	*	21.4-142	S	**0**	%REC	2000	08/28/2019 18:18	156749
Surr: Nitrobenzene-d5	*	15-163	S	**0**	%REC	2000	08/28/2019 18:18	156749
Surr: p-Terphenyl-d14	*	10-173		**102.1**	%REC	1	08/28/2019 1:13	156749
Surrogate recovery is outside control limits due to sample dilution.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10.0		**188**	µg/L	20	08/26/2019 13:56	156726
Ethylbenzene	NELAP	40.0		**697**	µg/L	20	08/26/2019 13:56	156726
Toluene	NELAP	40.0		**ND**	µg/L	20	08/26/2019 13:56	156726
Xylenes, Total	NELAP	80.0		**179**	µg/L	20	08/26/2019 13:56	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**105.5**	%REC	20	08/26/2019 13:56	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.4**	%REC	20	08/26/2019 13:56	156726
Surr: Dibromofluoromethane	*	84.9-113		**97.0**	%REC	20	08/26/2019 13:56	156726
Surr: Toluene-d8	*	86.7-112		**102.8**	%REC	20	08/26/2019 13:56	156726
Elevated reporting limit due to high levels of target and/or non-target analytes.								

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-023 **Client Sample ID:** UMW-303-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 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	08/26/2019 17:12	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:49	156701
Barium	NELAP	0.0025		**0.0408**	mg/L	1	08/26/2019 20:49	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:49	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:49	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:49	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:49	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:49	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:43	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:07	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:07	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:07	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:07	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 13:07	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:07	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**72.1**	%REC	1	08/27/2019 13:07	156710
Surr: Nitrobenzene-d5	*	15-163		**74.3**	%REC	1	08/27/2019 13:07	156710
Surr: p-Terphenyl-d14	*	10-173		**121.7**	%REC	1	08/27/2019 13:07	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 14:22	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 14:22	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 14:22	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 14:22	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**104.2**	%REC	1	08/26/2019 14:22	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.7**	%REC	1	08/26/2019 14:22	156726
Surr: Dibromofluoromethane	*	84.9-113		**97.5**	%REC	1	08/26/2019 14:22	156726
Surr: Toluene-d8	*	86.7-112		**102.2**	%REC	1	08/26/2019 14:22	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-024 **Client Sample ID:** UMW-304R-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 9:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 17:20	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:53	156701
Barium	NELAP	0.0025		**0.0811**	mg/L	1	08/26/2019 20:53	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:53	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:53	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:53	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:53	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:53	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:45	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000313**	mg/L	1	08/27/2019 13:45	156710
Acenaphthylene	NELAP	0.000100		**0.000697**	mg/L	1	08/27/2019 13:45	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:45	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:45	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 13:45	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:45	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 13:45	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 13:45	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**73.6**	%REC	1	08/27/2019 13:45	156710
Surr: Nitrobenzene-d5	*	15-163		**70.0**	%REC	1	08/27/2019 13:45	156710
Surr: p-Terphenyl-d14	*	10-173		**110.8**	%REC	1	08/27/2019 13:45	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 14:49	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 14:49	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 14:49	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 14:49	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**105.4**	%REC	1	08/26/2019 14:49	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.6**	%REC	1	08/26/2019 14:49	156726
Surr: Dibromofluoromethane	*	84.9-113		**97.4**	%REC	1	08/26/2019 14:49	156726
Surr: Toluene-d8	*	86.7-112		**103.1**	%REC	1	08/26/2019 14:49	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-025 **Client Sample ID:** UMW-305-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 9:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.008**	mg/L	1	08/26/2019 17:25	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 20:56	156701
Barium	NELAP	0.0025		**0.0970**	mg/L	1	08/26/2019 20:56	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 20:56	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 20:56	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 20:56	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 20:56	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 20:56	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:47	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 1:51	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 1:51	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 1:51	156749
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 15:47	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 1:51	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 1:51	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**65.6**	%REC	1	08/28/2019 1:51	156749
Surr: Nitrobenzene-d5	*	15-163		**74.0**	%REC	1	08/28/2019 1:51	156749
Surr: p-Terphenyl-d14	*	10-173		**116.0**	%REC	1	08/28/2019 1:51	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 15:16	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 15:16	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 15:16	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 15:16	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**104.1**	%REC	1	08/26/2019 15:16	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.4**	%REC	1	08/26/2019 15:16	156726
Surr: Dibromofluoromethane	*	84.9-113		**99.4**	%REC	1	08/26/2019 15:16	156726
Surr: Toluene-d8	*	86.7-112		**103.0**	%REC	1	08/26/2019 15:16	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-026 **Client Sample ID:** UMW-306-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 8:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.020**	mg/L	1	08/26/2019 17:33	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 21:00	156701
Barium	NELAP	0.0025		**0.120**	mg/L	1	08/26/2019 21:00	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 21:00	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 21:00	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 21:00	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 21:00	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 21:00	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:50	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 2:29	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 2:29	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 2:29	156749
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 2:29	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 2:29	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 2:29	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**52.6**	%REC	1	08/28/2019 2:29	156749
Surr: Nitrobenzene-d5	*	15-163		**55.4**	%REC	1	08/28/2019 2:29	156749
Surr: p-Terphenyl-d14	*	10-173		**97.3**	%REC	1	08/28/2019 2:29	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 15:44	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 15:44	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 15:44	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 15:44	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**104.2**	%REC	1	08/26/2019 15:44	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.0**	%REC	1	08/26/2019 15:44	156726
Surr: Dibromofluoromethane	*	84.9-113		**97.3**	%REC	1	08/26/2019 15:44	156726
Surr: Toluene-d8	*	86.7-112		**102.7**	%REC	1	08/26/2019 15:44	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-027 **Client Sample ID:** UMW-307-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 18:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.032**	mg/L	1	08/26/2019 17:38	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 21:22	156701
Barium	NELAP	0.0025		**0.109**	mg/L	1	08/26/2019 21:22	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 21:22	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 21:22	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 21:22	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 21:22	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 21:22	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:52	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 14:24	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 14:24	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 14:24	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 14:24	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 14:24	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 14:24	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**68.5**	%REC	1	08/27/2019 14:24	156710
Surr: Nitrobenzene-d5	*	15-163		**74.7**	%REC	1	08/27/2019 14:24	156710
Surr: p-Terphenyl-d14	*	10-173		**104.8**	%REC	1	08/27/2019 14:24	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 16:11	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 16:11	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 16:11	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 16:11	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**104.8**	%REC	1	08/26/2019 16:11	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**98.4**	%REC	1	08/26/2019 16:11	156726
Surr: Dibromofluoromethane	*	84.9-113		**97.7**	%REC	1	08/26/2019 16:11	156726
Surr: Toluene-d8	*	86.7-112		**102.5**	%REC	1	08/26/2019 16:11	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-028 **Client Sample ID:** UMW-308-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 13:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.015**	mg/L	1	08/26/2019 16:54	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 21:04	156701
Barium	NELAP	0.0025		**0.116**	mg/L	1	08/26/2019 21:04	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 21:04	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 21:04	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 21:04	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 21:04	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 21:04	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:54	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 3:07	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 3:07	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:07	156749
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 3:07	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 3:07	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 3:07	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**66.7**	%REC	1	08/28/2019 3:07	156749
Surr: Nitrobenzene-d5	*	15-163		**74.5**	%REC	1	08/28/2019 3:07	156749
Surr: p-Terphenyl-d14	*	10-173		**96.9**	%REC	1	08/28/2019 3:07	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 16:38	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 16:38	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 16:38	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 16:38	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**103.8**	%REC	1	08/26/2019 16:38	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.7**	%REC	1	08/26/2019 16:38	156726
Surr: Dibromofluoromethane	*	84.9-113		**98.1**	%REC	1	08/26/2019 16:38	156726
Surr: Toluene-d8	*	86.7-112		**102.9**	%REC	1	08/26/2019 16:38	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-029 **Client Sample ID:** DUP 001-WG-20190820

Matrix: GROUNDWATER **Collection Date:** 08/20/2019 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.050		**0.409**	mg/L	10	08/28/2019 10:22	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 21:07	156701
Barium	NELAP	0.0025		**0.139**	mg/L	1	08/26/2019 21:07	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 21:07	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 21:07	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 21:07	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 21:07	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 21:07	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:56	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 15:03	156710
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 15:03	156710
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/27/2019 15:03	156710
Naphthalene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 15:03	156710
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/27/2019 15:03	156710
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/27/2019 15:03	156710
Surr: 2-Fluorobiphenyl	*	21.4-142		**72.7**	%REC	1	08/27/2019 15:03	156710
Surr: Nitrobenzene-d5	*	15-163		**77.4**	%REC	1	08/27/2019 15:03	156710
Surr: p-Terphenyl-d14	*	10-173		**105.4**	%REC	1	08/27/2019 15:03	156710
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**0.6**	µg/L	1	08/26/2019 17:05	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 17:05	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 17:05	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 17:05	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**102.9**	%REC	1	08/26/2019 17:05	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.4**	%REC	1	08/26/2019 17:05	156726
Surr: Dibromofluoromethane	*	84.9-113		**96.5**	%REC	1	08/26/2019 17:05	156726
Surr: Toluene-d8	*	86.7-112		**102.6**	%REC	1	08/26/2019 17:05	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-030 **Client Sample ID:** DUP 002-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.012**	mg/L	1	08/26/2019 15:58	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 21:33	156701
Barium	NELAP	0.0025		**0.0310**	mg/L	1	08/26/2019 21:33	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 21:33	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 21:33	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 21:33	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 21:33	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 21:33	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 19:59	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000471**	mg/L	1	08/28/2019 3:45	156749
Acenaphthylene	NELAP	0.000100		**0.000311**	mg/L	1	08/28/2019 3:45	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 3:45	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 3:45	156749
Fluorene	NELAP	0.000100		**0.000167**	mg/L	1	08/28/2019 3:45	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 3:45	156749
Naphthalene	NELAP	0.00500		**0.0436**	mg/L	25	08/28/2019 17:02	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 3:45	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 3:45	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**61.0**	%REC	1	08/28/2019 3:45	156749
Surr: Nitrobenzene-d5	*	15-163		**62.6**	%REC	1	08/28/2019 3:45	156749
Surr: p-Terphenyl-d14	*	10-173		**83.0**	%REC	1	08/28/2019 3:45	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**116**	µg/L	1	08/27/2019 12:40	156759
Ethylbenzene	NELAP	2.0		**13.8**	µg/L	1	08/27/2019 12:40	156759
Toluene	NELAP	2.0		**76.7**	µg/L	1	08/27/2019 12:40	156759
Xylenes, Total	NELAP	4.0		**38.6**	µg/L	1	08/27/2019 12:40	156759
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.8**	%REC	1	08/27/2019 12:40	156759
Surr: 4-Bromofluorobenzene	*	83.9-115		**101.4**	%REC	1	08/27/2019 12:40	156759
Surr: Dibromofluoromethane	*	84.9-113		**101.9**	%REC	1	08/27/2019 12:40	156759
Surr: Toluene-d8	*	86.7-112		**99.8**	%REC	1	08/27/2019 12:40	156759

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-031 **Client Sample ID:** DUP 003-WG-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.146**	mg/L	5	08/26/2019 18:04	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 21:37	156701
Barium	NELAP	0.0025		**0.0603**	mg/L	1	08/26/2019 21:37	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 21:37	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 21:37	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 21:37	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 21:37	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 21:37	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 20:05	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000358**	mg/L	1	08/28/2019 4:23	156749
Acenaphthylene	NELAP	0.000100		**0.000370**	mg/L	1	08/28/2019 4:23	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 4:23	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 4:23	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 4:23	156749
Naphthalene	NELAP	0.200		**1.14**	mg/L	1000	08/28/2019 17:40	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 4:23	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 4:23	156749
Surr: 2-Fluorobiphenyl	*	21.4-142	S	**0**	%REC	1000	08/28/2019 17:40	156749
Surr: Nitrobenzene-d5	*	15-163	S	**0**	%REC	1000	08/28/2019 17:40	156749
Surr: p-Terphenyl-d14	*	10-173		**100.7**	%REC	1	08/28/2019 4:23	156749
Surrogate recovery is outside control limits due to sample dilution.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10.0		**215**	µg/L	20	08/27/2019 13:06	156759
Ethylbenzene	NELAP	40.0		**741**	µg/L	20	08/27/2019 13:06	156759
Toluene	NELAP	2.0		**7.5**	µg/L	1	08/26/2019 17:59	156726
Xylenes, Total	NELAP	4.0		**228**	µg/L	1	08/26/2019 17:59	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**106.8**	%REC	1	08/26/2019 17:59	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.0**	%REC	1	08/26/2019 17:59	156726
Surr: Dibromofluoromethane	*	84.9-113		**97.5**	%REC	1	08/26/2019 17:59	156726
Surr: Toluene-d8	*	86.7-112		**102.2**	%REC	1	08/26/2019 17:59	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-032 **Client Sample ID:** EB-01-WQ-20190821

Matrix: GROUNDWATER **Collection Date:** 08/21/2019 8:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	08/26/2019 12:47	156689
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	08/26/2019 21:40	156701
Barium	NELAP	0.0025		**0.0056**	mg/L	1	08/26/2019 21:40	156701
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/26/2019 21:40	156701
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/26/2019 21:40	156701
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/26/2019 21:40	156701
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	08/26/2019 21:40	156701
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	08/26/2019 21:40	156701
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/25/2019 20:08	156678
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 5:00	156749
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Chrysene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Fluoranthene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 5:00	156749
Fluorene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	08/28/2019 5:00	156749
Naphthalene	NELAP	0.000200		**0.000401**	mg/L	1	08/28/2019 16:25	156749
Phenanthrene	NELAP	0.000400		**ND**	mg/L	1	08/28/2019 5:00	156749
Pyrene	NELAP	0.000200		**ND**	mg/L	1	08/28/2019 5:00	156749
Surr: 2-Fluorobiphenyl	*	21.4-142		**58.4**	%REC	1	08/28/2019 5:00	156749
Surr: Nitrobenzene-d5	*	15-163		**57.3**	%REC	1	08/28/2019 5:00	156749
Surr: p-Terphenyl-d14	*	10-173		**85.0**	%REC	1	08/28/2019 5:00	156749
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	08/26/2019 18:26	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 18:26	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 18:26	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 18:26	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.9**	%REC	1	08/26/2019 18:26	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**99.8**	%REC	1	08/26/2019 18:26	156726
Surr: Dibromofluoromethane	*	84.9-113		**96.6**	%REC	1	08/26/2019 18:26	156726
Surr: Toluene-d8	*	86.7-112		**102.7**	%REC	1	08/26/2019 18:26	156726

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Lab ID: 19081552-033 **Client Sample ID:** TB-01-WQ-201908

Matrix: TRIP BLANK **Collection Date:** 08/22/2019 16:00

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	08/26/2019 19:19	156726
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 19:19	156726
Toluene	NELAP	2.0		**ND**	µg/L	1	08/26/2019 19:19	156726
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	08/26/2019 19:19	156726
Surr: 1,2-Dichloroethane-d4	*	79.6-118		**101.7**	%REC	1	08/26/2019 19:19	156726
Surr: 4-Bromofluorobenzene	*	83.9-115		**100.0**	%REC	1	08/26/2019 19:19	156726
Surr: Dibromofluoromethane	*	84.9-113		**97.5**	%REC	1	08/26/2019 19:19	156726
Surr: Toluene-d8	*	86.7-112		**102.6**	%REC	1	08/26/2019 19:19	156726

Client: ERM
Client Project: Champaign GW

Work Order: 19081552
Report Date: 29-Aug-2019

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
19081552-001	UMW-102-WG-20190819	Groundwater	4	08/19/2019 16:40
19081552-002	UMW-105-WG-20190821	Groundwater	4	08/21/2019 11:20
19081552-003	UMW-106R-WG-20190820	Groundwater	4	08/20/2019 19:00
19081552-004	UMW-107R-WG-20190820	Groundwater	4	08/20/2019 15:50
19081552-005	UMW-108-WG-20190820	Groundwater	4	08/20/2019 10:40
19081552-006	UMW-109-WG-20190820	Groundwater	4	08/20/2019 9:55
19081552-007	UMW-111A-WG-20190820	Groundwater	4	08/20/2019 9:15
19081552-008	UMW-116-WG-20190820	Groundwater	4	08/20/2019 16:15
19081552-009	UMW-117-WG-20190820	Groundwater	4	08/20/2019 14:45
19081552-010	UMW-118-WG-20190820	Groundwater	4	08/20/2019 11:20
19081552-011	UMW-119-WG-20190819	Groundwater	4	08/19/2019 18:20
19081552-012	UMW-120-WG-20190819	Groundwater	4	08/19/2019 17:00
19081552-013	UMW-121-WG-20190821	Groundwater	4	08/21/2019 12:20
19081552-014	UMW-122-WG-20190820	Groundwater	4	08/20/2019 17:45
19081552-015	UMW-123-WG-20190820	Groundwater	4	08/20/2019 17:15
19081552-016	UMW-124-WG-20190821	Groundwater	4	08/21/2019 14:40
19081552-017	UMW-125-WG-20190821	Groundwater	4	08/21/2019 8:10
19081552-018	UMW-126-WG-20190821	Groundwater	4	08/21/2019 14:15
19081552-019	UMW-127-WG-20190821	Groundwater	4	08/21/2019 10:45
19081552-020	UMW-300-WG-20190819	Groundwater	4	08/19/2019 18:30
19081552-021	UMW-301R-WG-20190821	Groundwater	4	08/21/2019 11:50
19081552-022	UMW-302-WG-20190821	Groundwater	4	08/21/2019 13:00
19081552-023	UMW-303-WG-20190820	Groundwater	4	08/20/2019 14:30
19081552-024	UMW-304R-WG-20190821	Groundwater	4	08/21/2019 9:15
19081552-025	UMW-305-WG-20190821	Groundwater	4	08/21/2019 9:30
19081552-026	UMW-306-WG-20190821	Groundwater	4	08/21/2019 8:20
19081552-027	UMW-307-WG-20190820	Groundwater	4	08/20/2019 18:20
19081552-028	UMW-308-WG-20190821	Groundwater	4	08/21/2019 13:10
19081552-029	DUP 001-WG-20190820	Groundwater	4	08/20/2019 0:00
19081552-030	DUP 002-WG-20190821	Groundwater	4	08/21/2019 0:00
19081552-031	DUP 003-WG-20190821	Groundwater	4	08/21/2019 0:00
19081552-032	EB-01-WQ-20190821	Groundwater	4	08/21/2019 8:55
19081552-033	TB-01-WQ-201908	Trip Blank	1	08/22/2019 16:00

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19081552-001A	UMW-102-WG-20190819	08/19/2019 16:40	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 16:33
19081552-001B	UMW-102-WG-20190819	08/19/2019 16:40	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 18:23
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 16:56
19081552-001C	UMW-102-WG-20190819	08/19/2019 16:40	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 13:05
19081552-001D	UMW-102-WG-20190819	08/19/2019 16:40	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 18:06
19081552-002A	UMW-105-WG-20190821	08/21/2019 11:20	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/26/2019 23:01
19081552-002B	UMW-105-WG-20190821	08/21/2019 11:20	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 18:26
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 16:59
19081552-002C	UMW-105-WG-20190821	08/21/2019 11:20	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 11:25
19081552-002D	UMW-105-WG-20190821	08/21/2019 11:20	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 18:32
19081552-003A	UMW-106R-WG-20190820	08/20/2019 19:00	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 17:16
19081552-003B	UMW-106R-WG-20190820	08/20/2019 19:00	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 18:37
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:05
19081552-003C	UMW-106R-WG-20190820	08/20/2019 19:00	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 13:13
19081552-003D	UMW-106R-WG-20190820	08/20/2019 19:00	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 19:00
19081552-004A	UMW-107R-WG-20190820	08/20/2019 15:50	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 17:55
19081552-004B	UMW-107R-WG-20190820	08/20/2019 15:50	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 18:41
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:08
19081552-004C	UMW-107R-WG-20190820	08/20/2019 15:50	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 16:11
19081552-004D	UMW-107R-WG-20190820	08/20/2019 15:50	08/22/2019 16:00		

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	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 17:09
19081552-005A	UMW-108-WG-20190820	08/20/2019 10:40	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 18:34
19081552-005B	UMW-108-WG-20190820	08/20/2019 10:40	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 18:45
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:10
19081552-005C	UMW-108-WG-20190820	08/20/2019 10:40	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 13:22
19081552-005D	UMW-108-WG-20190820	08/20/2019 10:40	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 17:36
19081552-006A	UMW-109-WG-20190820	08/20/2019 9:55	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 19:12
19081552-006B	UMW-109-WG-20190820	08/20/2019 9:55	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 18:59
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:12
19081552-006C	UMW-109-WG-20190820	08/20/2019 9:55	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 13:48
19081552-006D	UMW-109-WG-20190820	08/20/2019 9:55	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 18:03
19081552-007A	UMW-111A-WG-20190820	08/20/2019 9:15	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 19:50
19081552-007B	UMW-111A-WG-20190820	08/20/2019 9:15	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:03
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:14
19081552-007C	UMW-111A-WG-20190820	08/20/2019 9:15	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 13:52
19081552-007D	UMW-111A-WG-20190820	08/20/2019 9:15	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 18:30
19081552-008A	UMW-116-WG-20190820	08/20/2019 16:15	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/26/2019 22:23
19081552-008B	UMW-116-WG-20190820	08/20/2019 16:15	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:07
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:16
19081552-008C	UMW-116-WG-20190820	08/20/2019 16:15	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:01

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	Test Name			Prep Date/Time	Analysis Date/Time
19081552-008D	UMW-116-WG-20190820	08/20/2019 16:15	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 18:56
19081552-009A	UMW-117-WG-20190820	08/20/2019 14:45	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:10	08/27/2019 16:59
19081552-009B	UMW-117-WG-20190820	08/20/2019 14:45	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:10
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:23
19081552-009C	UMW-117-WG-20190820	08/20/2019 14:45	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:06
19081552-009D	UMW-117-WG-20190820	08/20/2019 14:45	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 19:23
19081552-010A	UMW-118-WG-20190820	08/20/2019 11:20	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 16:21
19081552-010B	UMW-118-WG-20190820	08/20/2019 11:20	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:14
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:25
19081552-010C	UMW-118-WG-20190820	08/20/2019 11:20	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:14
19081552-010D	UMW-118-WG-20190820	08/20/2019 11:20	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 19:50
19081552-011A	UMW-119-WG-20190819	08/19/2019 18:20	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 20:28
19081552-011B	UMW-119-WG-20190819	08/19/2019 18:20	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:18
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:28
19081552-011C	UMW-119-WG-20190819	08/19/2019 18:20	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:18
19081552-011D	UMW-119-WG-20190819	08/19/2019 18:20	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 20:17
19081552-012A	UMW-120-WG-20190819	08/19/2019 17:00	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 21:06
19081552-012B	UMW-120-WG-20190819	08/19/2019 17:00	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:21
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:30
19081552-012C	UMW-120-WG-20190819	08/19/2019 17:00	08/22/2019 16:00		

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	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:27
19081552-012D	UMW-120-WG-20190819	08/19/2019 17:00	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 20:43
19081552-013A	UMW-121-WG-20190821	08/21/2019 12:20	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/27/2019 17:38
19081552-013B	UMW-121-WG-20190821	08/21/2019 12:20	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:25
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:32
19081552-013C	UMW-121-WG-20190821	08/21/2019 12:20	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 18:08
19081552-013D	UMW-121-WG-20190821	08/21/2019 12:20	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 21:10
19081552-014A	UMW-122-WG-20190820	08/20/2019 17:45	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 11:12
19081552-014B	UMW-122-WG-20190820	08/20/2019 17:45	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:47
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:39
19081552-014C	UMW-122-WG-20190820	08/20/2019 17:45	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:31
19081552-014D	UMW-122-WG-20190820	08/20/2019 17:45	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 21:37
19081552-015A	UMW-123-WG-20190820	08/20/2019 17:15	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 11:50
19081552-015B	UMW-123-WG-20190820	08/20/2019 17:15	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:51
	SW-846 7470A (Total)			08/23/2019 11:48	08/25/2019 17:41
19081552-015C	UMW-123-WG-20190820	08/20/2019 17:15	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:40
19081552-015D	UMW-123-WG-20190820	08/20/2019 17:15	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 22:04
19081552-016A	UMW-124-WG-20190821	08/21/2019 14:40	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/27/2019 19:31
19081552-016B	UMW-124-WG-20190821	08/21/2019 14:40	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:54
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:14

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	Test Name			Prep Date/Time	Analysis Date/Time
19081552-016C	UMW-124-WG-20190821	08/21/2019 14:40	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 14:44
19081552-016D	UMW-124-WG-20190821	08/21/2019 14:40	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 22:31
19081552-017A	UMW-125-WG-20190821	08/21/2019 8:10	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 12:28
19081552-017B	UMW-125-WG-20190821	08/21/2019 8:10	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 19:58
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:20
19081552-017C	UMW-125-WG-20190821	08/21/2019 8:10	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 15:10
19081552-017D	UMW-125-WG-20190821	08/21/2019 8:10	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 22:57
19081552-018A	UMW-126-WG-20190821	08/21/2019 14:15	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/27/2019 20:09
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/28/2019 15:09
19081552-018B	UMW-126-WG-20190821	08/21/2019 14:15	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 20:02
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:23
19081552-018C	UMW-126-WG-20190821	08/21/2019 14:15	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 15:15
19081552-018D	UMW-126-WG-20190821	08/21/2019 14:15	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 23:24
19081552-019A	UMW-127-WG-20190821	08/21/2019 10:45	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/27/2019 20:46
19081552-019B	UMW-127-WG-20190821	08/21/2019 10:45	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 20:05
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:25
19081552-019C	UMW-127-WG-20190821	08/21/2019 10:45	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 16:24
19081552-019D	UMW-127-WG-20190821	08/21/2019 10:45	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/23/2019 23:50
19081552-020A	UMW-300-WG-20190819	08/19/2019 18:30	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 9:44	08/26/2019 21:45
19081552-020B	UMW-300-WG-20190819	08/19/2019 18:30	08/22/2019 16:00		

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	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:50	08/26/2019 20:09
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:32
19081552-020C	UMW-300-WG-20190819	08/19/2019 18:30	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 16:28
19081552-020D	UMW-300-WG-20190819	08/19/2019 18:30	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/24/2019 0:17
19081552-021A	UMW-301R-WG-20190821	08/21/2019 11:50	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/28/2019 0:35
19081552-021B	UMW-301R-WG-20190821	08/21/2019 11:50	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 20:35
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:38
19081552-021C	UMW-301R-WG-20190821	08/21/2019 11:50	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 12:30
19081552-021D	UMW-301R-WG-20190821	08/21/2019 11:50	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 13:29
19081552-022A	UMW-302-WG-20190821	08/21/2019 13:00	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/28/2019 1:13
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 9:12	08/28/2019 18:18
19081552-022B	UMW-302-WG-20190821	08/21/2019 13:00	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 20:45
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:41
19081552-022C	UMW-302-WG-20190821	08/21/2019 13:00	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/28/2019 10:17
19081552-022D	UMW-302-WG-20190821	08/21/2019 13:00	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 13:56
19081552-023A	UMW-303-WG-20190820	08/20/2019 14:30	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 13:07
19081552-023B	UMW-303-WG-20190820	08/20/2019 14:30	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 20:49
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:43
19081552-023C	UMW-303-WG-20190820	08/20/2019 14:30	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 17:12
19081552-023D	UMW-303-WG-20190820	08/20/2019 14:30	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 14:22
19081552-024A	UMW-304R-WG-20190821	08/21/2019 9:15	08/22/2019 16:00		

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 13:45
19081552-024B	UMW-304R-WG-20190821	08/21/2019 9:15	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 20:53
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:45
19081552-024C	UMW-304R-WG-20190821	08/21/2019 9:15	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 17:20
19081552-024D	UMW-304R-WG-20190821	08/21/2019 9:15	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 14:49
19081552-025A	UMW-305-WG-20190821	08/21/2019 9:30	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 1:51
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 15:47
19081552-025B	UMW-305-WG-20190821	08/21/2019 9:30	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 20:56
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:47
19081552-025C	UMW-305-WG-20190821	08/21/2019 9:30	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 17:25
19081552-025D	UMW-305-WG-20190821	08/21/2019 9:30	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 15:16
19081552-026A	UMW-306-WG-20190821	08/21/2019 8:20	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 2:29
19081552-026B	UMW-306-WG-20190821	08/21/2019 8:20	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 21:00
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:50
19081552-026C	UMW-306-WG-20190821	08/21/2019 8:20	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 17:33
19081552-026D	UMW-306-WG-20190821	08/21/2019 8:20	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 15:44
19081552-027A	UMW-307-WG-20190820	08/20/2019 18:20	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 14:24
19081552-027B	UMW-307-WG-20190820	08/20/2019 18:20	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 21:22
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:52
19081552-027C	UMW-307-WG-20190820	08/20/2019 18:20	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 17:38
19081552-027D	UMW-307-WG-20190820	08/20/2019 18:20	08/22/2019 16:00		

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-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				08/26/2019 16:11
19081552-028A	UMW-308-WG-20190821	08/21/2019 13:10	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 3:07
19081552-028B	UMW-308-WG-20190821	08/21/2019 13:10	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 21:04
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:54
19081552-028C	UMW-308-WG-20190821	08/21/2019 13:10	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 16:54
19081552-028D	UMW-308-WG-20190821	08/21/2019 13:10	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 16:38
19081552-029A	DUP 001-WG-20190820	08/20/2019 0:00	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/26/2019 13:26	08/27/2019 15:03
19081552-029B	DUP 001-WG-20190820	08/20/2019 0:00	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 21:07
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:56
19081552-029C	DUP 001-WG-20190820	08/20/2019 0:00	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/28/2019 10:22
19081552-029D	DUP 001-WG-20190820	08/20/2019 0:00	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 17:05
19081552-030A	DUP 002-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 3:45
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 17:02
19081552-030B	DUP 002-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 21:33
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 19:59
19081552-030C	DUP 002-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 15:58
19081552-030D	DUP 002-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/27/2019 12:40
19081552-031A	DUP 003-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 4:23
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 17:40
19081552-031B	DUP 003-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 21:37
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 20:05

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
19081552-031C	DUP 003-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 18:04
19081552-031D	DUP 003-WG-20190821	08/21/2019 0:00	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 17:59
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/27/2019 13:06
19081552-032A	EB-01-WQ-20190821	08/21/2019 8:55	08/22/2019 16:00		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 5:00
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/27/2019 12:15	08/28/2019 16:25
19081552-032B	EB-01-WQ-20190821	08/21/2019 8:55	08/22/2019 16:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/26/2019 8:54	08/26/2019 21:40
	SW-846 7470A (Total)			08/23/2019 11:51	08/25/2019 20:08
19081552-032C	EB-01-WQ-20190821	08/21/2019 8:55	08/22/2019 16:00		
	SW-846 9012A (Total)			08/23/2019 17:06	08/26/2019 12:47
19081552-032D	EB-01-WQ-20190821	08/21/2019 8:55	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 18:26
19081552-033A	TB-01-WQ-201908	08/22/2019 16:00	08/22/2019 16:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/26/2019 19:19

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

SW-846 9012A (TOTAL)

Batch 156687 **SampType:** MBLK Units **mg/L**
SampID: MBLK 190823 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	08/26/2019

Batch 156687 **SampType:** LCS Units **mg/L**
SampID: LCS 190823 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.021**	0.02500	0	85.1	85	115	08/26/2019

Batch 156687 **SampType:** MS Units **mg/L**
SampID: 19081552-002CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005	E	**0.069**	0.02500	0.04246	106.0	75	125	08/26/2019

Batch 156687 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 19081552-002CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005	E	**0.066**	0.02500	0.04246	93.1	0.06895	4.79	08/26/2019

Batch 156687 **SampType:** MS Units **mg/L**
SampID: 19081552-013CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.025		**0.123**	0.02500	0.09895	94.7	75	125	08/26/2019

Batch 156687 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 19081552-013CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.025		**0.124**	0.02500	0.09895	98.5	0.1226	0.78	08/26/2019

Batch 156689 **SampType:** MBLK Units **mg/L**
SampID: MBLK 190823 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	08/26/2019

Batch 156689 **SampType:** LCS Units **mg/L**
SampID: LCS 190823 TCN2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.026**	0.02500	0	102.5	85	115	08/26/2019

Batch 156689 **SampType:** MS Units **mg/L**
SampID: 19081552-021CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.020**	0.02500	0	80.8	75	125	08/26/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

SW-846 9012A (TOTAL)

Batch 156689 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19081552-021CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005	R	**0.027**	0.02500	0	106.2	0.02020	27.23	08/26/2019

Batch 156689 **SampType:** MS Units **mg/L**

SampID: 19081552-032CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.023**	0.02500	0	93.5	75	125	08/26/2019

Batch 156689 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19081552-032CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005		**0.025**	0.02500	0	100.7	0.02336	7.48	08/26/2019

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

Batch 156700 **SampType:** MBLK Units **mg/L**

SampID: MBLK-156700

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	08/26/2019
Barium	0.0025		**< 0.0025**	.000700(	0	0	-100	100	08/26/2019
Cadmium	0.0020		**< 0.0020**	.000500(	0	0	-100	100	08/26/2019
Chromium	0.0050		**< 0.0050**	0.00280(	0	0	-100	100	08/26/2019
Lead	0.0150		**< 0.0150**	0.00140(	0	0	-100	100	08/26/2019
Selenium	0.0400		**< 0.0400**	0.01700	0	0	-100	100	08/26/2019
Silver	0.0070		**< 0.0070**	0.00270(	0	0	-100	100	08/26/2019

Batch 156700 **SampType:** LCS Units **mg/L**

SampID: LCS-156700

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.494**	0.5000	0	98.8	85	115	08/26/2019
Barium	0.0025		**1.97**	2.000	0	98.4	85	115	08/26/2019
Cadmium	0.0020		**0.0488**	0.05000	0	97.6	85	115	08/26/2019
Chromium	0.0050		**0.189**	0.2000	0	94.7	85	115	08/26/2019
Lead	0.0150		**0.483**	0.5000	0	96.6	85	115	08/26/2019
Selenium	0.0400		**0.495**	0.5000	0	99.0	85	115	08/26/2019
Silver	0.0070		**0.0476**	0.05000	0	95.2	85	115	08/26/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156700 **SampType:** MS Units **mg/L**

SampID: 19081552-002BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.499**	0.5000	0	99.8	75	125	08/26/2019
Barium	0.0025		**2.05**	2.000	0.05840	99.6	75	125	08/26/2019
Cadmium	0.0020		**0.0488**	0.05000	0	97.6	75	125	08/26/2019
Chromium	0.0050		**0.192**	0.2000	0	95.8	75	125	08/26/2019
Lead	0.0150		**0.482**	0.5000	0	96.5	75	125	08/26/2019
Selenium	0.0400		**0.495**	0.5000	0	98.9	75	125	08/26/2019
Silver	0.0070		**0.0484**	0.05000	0	96.8	75	125	08/26/2019

Batch 156700 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19081552-002BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.502**	0.5000	0	100.3	0.4990	0.50	08/26/2019
Barium	0.0025		**2.07**	2.000	0.05840	100.4	2.050	0.78	08/26/2019
Cadmium	0.0020		**0.0490**	0.05000	0	98.0	0.04880	0.41	08/26/2019
Chromium	0.0050		**0.192**	0.2000	0	96.2	0.1916	0.36	08/26/2019
Lead	0.0150		**0.485**	0.5000	0	96.9	0.4824	0.48	08/26/2019
Selenium	0.0400		**0.498**	0.5000	0	99.5	0.4946	0.58	08/26/2019
Silver	0.0070		**0.0484**	0.05000	0	96.8	0.04840	0.00	08/26/2019

Batch 156700 **SampType:** MS Units **mg/L**

SampID: 19081552-013BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.502**	0.5000	0	100.4	75	125	08/26/2019
Barium	0.0025		**2.13**	2.000	0.1198	100.4	75	125	08/26/2019
Cadmium	0.0020		**0.0498**	0.05000	0	99.6	75	125	08/26/2019
Chromium	0.0050		**0.196**	0.2000	0	98.2	75	125	08/26/2019
Lead	0.0150		**0.490**	0.5000	0	98.1	75	125	08/26/2019
Selenium	0.0400		**0.497**	0.5000	0	99.4	75	125	08/26/2019
Silver	0.0070		**0.0489**	0.05000	0	97.8	75	125	08/26/2019

Batch 156700 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19081552-013BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.500**	0.5000	0	100.0	0.5018	0.38	08/26/2019
Barium	0.0025		**2.11**	2.000	0.1198	99.5	2.127	0.80	08/26/2019
Cadmium	0.0020		**0.0496**	0.05000	0	99.2	0.04980	0.40	08/26/2019
Chromium	0.0050		**0.194**	0.2000	0	97.2	0.1965	1.07	08/26/2019
Lead	0.0150		**0.487**	0.5000	0	97.4	0.4904	0.68	08/26/2019
Selenium	0.0400		**0.491**	0.5000	0	98.2	0.4968	1.13	08/26/2019
Silver	0.0070		**0.0484**	0.05000	0	96.8	0.04890	1.03	08/26/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156701 **SampType:** MBLK Units **mg/L**

SampID: MBLK-156701

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	08/26/2019
Barium	0.0025		**< 0.0025**	.000700	0	0	-100	100	08/26/2019
Cadmium	0.0020		**< 0.0020**	.000500	0	0	-100	100	08/26/2019
Chromium	0.0050		**< 0.0050**	0.00280	0	0	-100	100	08/26/2019
Lead	0.0150		**< 0.0150**	0.00140	0	0	-100	100	08/26/2019
Selenium	0.0400		**< 0.0400**	0.01700	0	0	-100	100	08/26/2019
Silver	0.0070		**< 0.0070**	0.00270	0	0	-100	100	08/26/2019

Batch 156701 **SampType:** LCS Units **mg/L**

SampID: LCS-156701

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.489**	0.5000	0	97.8	85	115	08/26/2019
Barium	0.0025		**1.95**	2.000	0	97.6	85	115	08/26/2019
Cadmium	0.0020		**0.0481**	0.05000	0	96.2	85	115	08/26/2019
Chromium	0.0050		**0.187**	0.2000	0	93.3	85	115	08/26/2019
Lead	0.0150		**0.475**	0.5000	0	95.0	85	115	08/26/2019
Selenium	0.0400		**0.488**	0.5000	0	97.6	85	115	08/26/2019
Silver	0.0070		**0.0476**	0.05000	0	95.2	85	115	08/26/2019

Batch 156701 **SampType:** MS Units **mg/L**

SampID: 19081552-021BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.495**	0.5000	0	98.9	75	125	08/26/2019
Barium	0.0025		**2.06**	2.000	0.07620	99.1	75	125	08/26/2019
Cadmium	0.0020		**0.0488**	0.05000	0	97.6	75	125	08/26/2019
Chromium	0.0050		**0.193**	0.2000	0	96.5	75	125	08/26/2019
Lead	0.0150		**0.482**	0.5000	0	96.3	75	125	08/26/2019
Selenium	0.0400		**0.486**	0.5000	0	97.2	75	125	08/26/2019
Silver	0.0070		**0.0482**	0.05000	0	96.4	75	125	08/26/2019

Batch 156701 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19081552-021BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.504**	0.5000	0	100.8	0.4947	1.82	08/26/2019
Barium	0.0025		**2.09**	2.000	0.07620	100.8	2.059	1.64	08/26/2019
Cadmium	0.0020		**0.0495**	0.05000	0	99.0	0.04880	1.42	08/26/2019
Chromium	0.0050		**0.195**	0.2000	0	97.4	0.1929	0.93	08/26/2019
Lead	0.0150		**0.487**	0.5000	0	97.5	0.4815	1.22	08/26/2019
Selenium	0.0400		**0.497**	0.5000	0	99.5	0.4861	2.30	08/26/2019
Silver	0.0070		**0.0490**	0.05000	0	98.0	0.04820	1.65	08/26/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156701 **SampType:** MS Units **mg/L**

SampID: 19081552-027BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.504**	0.5000	0	100.7	75	125	08/26/2019
Barium	0.0025		**2.13**	2.000	0.1086	101.2	75	125	08/26/2019
Cadmium	0.0020		**0.0494**	0.05000	0	98.8	75	125	08/26/2019
Chromium	0.0050		**0.196**	0.2000	0	97.8	75	125	08/26/2019
Lead	0.0150		**0.487**	0.5000	0	97.3	75	125	08/26/2019
Selenium	0.0400		**0.487**	0.5000	0	97.4	75	125	08/26/2019
Silver	0.0070		**0.0495**	0.05000	0	99.0	75	125	08/26/2019

Batch 156701 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19081552-027BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.510**	0.5000	0	101.9	0.5036	1.20	08/26/2019
Barium	0.0025		**2.16**	2.000	0.1086	102.4	2.133	1.07	08/26/2019
Cadmium	0.0020		**0.0497**	0.05000	0	99.4	0.04940	0.61	08/26/2019
Chromium	0.0050		**0.197**	0.2000	0	98.3	0.1956	0.51	08/26/2019
Lead	0.0150		**0.490**	0.5000	0	98.0	0.4867	0.70	08/26/2019
Selenium	0.0400		**0.499**	0.5000	0	99.9	0.4869	2.53	08/26/2019
Silver	0.0070		**0.0500**	0.05000	0	100.0	0.04950	1.01	08/26/2019

SW-846 7470A (TOTAL)

Batch 156677 **SampType:** MBLK Units **mg/L**

SampID: MBLK-156677

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	08/25/2019

Batch 156677 **SampType:** LCS Units **mg/L**

SampID: LCS-156677

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00567**	).00500(	0	113.5	85	115	08/25/2019

Batch 156677 **SampType:** MS Units **mg/L**

SampID: 19081552-002BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00576**	).00500(	0	115.3	75	125	08/25/2019

Batch 156677 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19081552-002BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00577**	).00500(	0	115.5	0.005765	0.16	08/25/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

SW-846 7470A (TOTAL)

Batch 156677 **SampType:** MS Units **mg/L**

SampID: 19081552-013BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00574**	0.00500	0	114.9	75	125	08/25/2019

Batch 156677 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19081552-013BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00558**	0.00500	0	111.6	0.005743	2.90	08/25/2019

Batch 156678 **SampType:** MBLK Units **mg/L**

SampID: MBLK-156678

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**< 0.00020**	0.00055	0	0	-100	100	08/25/2019

Batch 156678 **SampType:** LCS Units **mg/L**

SampID: LCS-156678

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00553**	0.00500	0	110.5	85	115	08/25/2019

Batch 156678 **SampType:** MS Units **mg/L**

SampID: 19081552-016BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00576**	0.00500	0	115.2	75	125	08/25/2019

Batch 156678 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19081552-016BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00564**	0.00500	0	112.9	0.005760	2.02	08/25/2019

Batch 156678 **SampType:** MS Units **mg/L**

SampID: 19081552-019BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00620**	0.00500	0.00007110	122.6	75	125	08/25/2019

Batch 156678 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 19081552-019BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00618**	0.00500	0.00007110	122.3	0.006200	0.27	08/25/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156710 **SampType:** MBLK Units **mg/L**

SampID: MBLK-156710

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						08/26/2019
Acenaphthylene	0.000100		**ND**						08/26/2019
Anthracene	0.000100		**ND**						08/26/2019
Benzo(a)anthracene	0.000100		**ND**						08/26/2019
Benzo(a)pyrene	0.000100		**ND**						08/26/2019
Benzo(b)fluoranthene	0.000100		**ND**						08/26/2019
Benzo(g,h,i)perylene	0.000200		**ND**						08/26/2019
Benzo(k)fluoranthene	0.000100		**ND**						08/26/2019
Chrysene	0.000100		**ND**						08/26/2019
Dibenzo(a,h)anthracene	0.000100		**ND**						08/26/2019
Fluoranthene	0.000200		**ND**						08/26/2019
Fluorene	0.000100		**ND**						08/26/2019
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						08/26/2019
Naphthalene	0.000200		**ND**						08/26/2019
Phenanthrene	0.000400		**ND**						08/26/2019
Pyrene	0.000200		**ND**						08/26/2019
Surr: 2-Fluorobiphenyl			**0.000901**	0.00100		90.1	30	133	08/26/2019
Surr: Nitrobenzene-d5			**0.000925**	0.00100		92.5	39.8	123	08/26/2019
Surr: p-Terphenyl-d14			**0.00123**	0.00100		123.1	48.1	144	08/26/2019

Batch 156710 **SampType:** LCS Units **mg/L**

SampID: LCS-156710

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00171**	0.00200	0	85.5	46.9	113	08/26/2019
Acenaphthylene	0.000100		**0.00188**	0.00200	0	94.2	45.9	129	08/26/2019
Anthracene	0.000100		**0.00175**	0.00200	0	87.6	48.5	117	08/26/2019
Benzo(a)anthracene	0.000100		**0.00172**	0.00200	0	85.9	51.2	117	08/26/2019
Benzo(a)pyrene	0.000100		**0.00203**	0.00200	0	101.5	48.1	127	08/26/2019
Benzo(b)fluoranthene	0.000100		**0.00186**	0.00200	0	93.0	38.1	135	08/26/2019
Benzo(g,h,i)perylene	0.000200		**0.00168**	0.00200	0	83.9	46.5	132	08/26/2019
Benzo(k)fluoranthene	0.000100		**0.00177**	0.00200	0	88.7	47.5	126	08/26/2019
Chrysene	0.000100		**0.00169**	0.00200	0	84.7	50.6	121	08/26/2019
Dibenzo(a,h)anthracene	0.000100		**0.00184**	0.00200	0	91.8	49.2	137	08/26/2019
Fluoranthene	0.000200		**0.00197**	0.00200	0	98.4	48.8	124	08/26/2019
Fluorene	0.000100		**0.00183**	0.00200	0	91.4	45.5	123	08/26/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00193**	0.00200	0	96.6	37.1	143	08/26/2019
Naphthalene	0.000200		**0.00166**	0.00200	0	82.8	18.5	145	08/26/2019
Phenanthrene	0.000400		**0.00207**	0.00200	0	103.4	44.7	131	08/26/2019
Pyrene	0.000200		**0.00183**	0.00200	0	91.7	47.5	123	08/26/2019
Surr: 2-Fluorobiphenyl			**0.000916**	0.00100		91.6	30	133	08/26/2019
Surr: Nitrobenzene-d5			**0.000865**	0.00100		86.5	39.8	123	08/26/2019
Surr: p-Terphenyl-d14			**0.00111**	0.00100		110.8	48.1	144	08/26/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156710 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-156710

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00149**	0.00200	0	74.6	0.001710	13.65	08/26/2019
Acenaphthylene	0.000100		**0.00172**	0.00200	0	86.1	0.001884	8.98	08/26/2019
Anthracene	0.000100		**0.00170**	0.00200	0	85.1	0.001752	2.88	08/26/2019
Benzo(a)anthracene	0.000100		**0.00167**	0.00200	0	83.4	0.001718	2.93	08/26/2019
Benzo(a)pyrene	0.000100		**0.00196**	0.00200	0	98.0	0.002031	3.53	08/26/2019
Benzo(b)fluoranthene	0.000100		**0.00186**	0.00200	0	93.0	0.001860	0.00	08/26/2019
Benzo(g,h,i)perylene	0.000200		**0.00168**	0.00200	0	84.0	0.001677	0.20	08/26/2019
Benzo(k)fluoranthene	0.000100		**0.00188**	0.00200	0	94.0	0.001775	5.70	08/26/2019
Chrysene	0.000100		**0.00161**	0.00200	0	80.4	0.001694	5.26	08/26/2019
Dibenzo(a,h)anthracene	0.000100		**0.00177**	0.00200	0	88.5	0.001835	3.60	08/26/2019
Fluoranthene	0.000200		**0.00182**	0.00200	0	91.0	0.001968	7.75	08/26/2019
Fluorene	0.000100		**0.00158**	0.00200	0	79.1	0.001828	14.42	08/26/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00192**	0.00200	0	96.2	0.001932	0.36	08/26/2019
Naphthalene	0.000200		**0.00144**	0.00200	0	72.1	0.001657	13.82	08/26/2019
Phenanthrene	0.000400		**0.00184**	0.00200	0	91.8	0.002067	11.84	08/26/2019
Pyrene	0.000200		**0.00178**	0.00200	0	88.9	0.001834	3.06	08/26/2019
Surr: 2-Fluorobiphenyl			**0.000786**	0.00100		78.6			08/26/2019
Surr: Nitrobenzene-d5			**0.000805**	0.00100		80.5			08/26/2019
Surr: p-Terphenyl-d14			**0.00102**	0.00100		102.0			08/26/2019

Batch 156710 **SampType:** MS Units **mg/L**

SampID: 19081552-002AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00159**	0.00200	0	79.6	28.3	133	08/26/2019
Acenaphthylene	0.000100		**0.00170**	0.00200	0	84.8	5	176	08/26/2019
Anthracene	0.000100		**0.00171**	0.00200	0	85.4	34.6	131	08/26/2019
Benzo(a)anthracene	0.000100		**0.00155**	0.00200	0	77.7	40.3	132	08/26/2019
Benzo(a)pyrene	0.000100		**0.00161**	0.00200	0	80.7	40.8	132	08/26/2019
Benzo(b)fluoranthene	0.000100		**0.00157**	0.00200	0	78.7	41.9	132	08/26/2019
Benzo(g,h,i)perylene	0.000200		**0.00135**	0.00200	0	67.3	46	132	08/26/2019
Benzo(k)fluoranthene	0.000100		**0.00155**	0.00200	0	77.6	49.4	126	08/26/2019
Chrysene	0.000100		**0.00162**	0.00200	0	81.1	46.1	129	08/26/2019
Dibenzo(a,h)anthracene	0.000100		**0.00147**	0.00200	0	73.5	42.1	146	08/26/2019
Fluoranthene	0.000200		**0.00164**	0.00200	0	81.8	23.9	164	08/26/2019
Fluorene	0.000100		**0.00163**	0.00200	0	81.6	24.3	148	08/26/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00155**	0.00200	0	77.4	26.6	157	08/26/2019
Naphthalene	0.000200		**0.00173**	0.00200	0	86.5	24.2	132	08/26/2019
Phenanthrene	0.000400		**0.00184**	0.00200	0	92.2	36.6	139	08/26/2019
Pyrene	0.000200		**0.00161**	0.00200	0	80.5	14.6	169	08/26/2019
Surr: 2-Fluorobiphenyl			**0.000800**	0.00100		80.0	21.4	142	08/26/2019
Surr: Nitrobenzene-d5			**0.000801**	0.00100		80.1	15	163	08/26/2019
Surr: p-Terphenyl-d14			**0.000890**	0.00100		89.0	10	173	08/26/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156710 **SampType:** MSD Units **mg/L** RPD Limit **40**

SampID: 19081552-002AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00163**	0.00200	0	81.6	0.001591	2.49	08/27/2019
Acenaphthylene	0.000100		**0.00174**	0.00200	0	87.0	0.001697	2.54	08/27/2019
Anthracene	0.000100		**0.00172**	0.00200	0	86.2	0.001708	0.89	08/27/2019
Benzo(a)anthracene	0.000100		**0.00177**	0.00200	0	88.7	0.001554	13.22	08/27/2019
Benzo(a)pyrene	0.000100		**0.00199**	0.00200	0	99.6	0.001614	20.98	08/27/2019
Benzo(b)fluoranthene	0.000100		**0.00187**	0.00200	0	93.5	0.001574	17.24	08/27/2019
Benzo(g,h,i)perylene	0.000200		**0.00170**	0.00200	0	84.9	0.001346	23.21	08/27/2019
Benzo(k)fluoranthene	0.000100		**0.00180**	0.00200	0	90.2	0.001552	14.94	08/27/2019
Chrysene	0.000100		**0.00176**	0.00200	0	88.0	0.001621	8.23	08/27/2019
Dibenzo(a,h)anthracene	0.000100		**0.00195**	0.00200	0	97.4	0.001471	27.95	08/27/2019
Fluoranthene	0.000200		**0.00177**	0.00200	0	88.7	0.001636	8.07	08/27/2019
Fluorene	0.000100		**0.00176**	0.00200	0	88.1	0.001632	7.68	08/27/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00227**	0.00200	0	113.5	0.001548	37.77	08/27/2019
Naphthalene	0.000200		**0.00168**	0.00200	0	84.0	0.001730	2.97	08/27/2019
Phenanthrene	0.000400		**0.00179**	0.00200	0	89.7	0.001843	2.70	08/27/2019
Pyrene	0.000200		**0.00180**	0.00200	0	90.0	0.001610	11.10	08/27/2019
Surr: 2-Fluorobiphenyl			**0.000863**	0.00100		86.3			08/27/2019
Surr: Nitrobenzene-d5			**0.000796**	0.00100		79.6			08/27/2019
Surr: p-Terphenyl-d14			**0.00109**	0.00100		109.5			08/27/2019

Batch 156749 **SampType:** MBLK Units **mg/L**

SampID: MBLK-156749

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						08/27/2019
Acenaphthylene	0.000100		**ND**						08/27/2019
Anthracene	0.000100		**ND**						08/27/2019
Benzo(a)anthracene	0.000100		**ND**						08/27/2019
Benzo(a)pyrene	0.000100		**ND**						08/27/2019
Benzo(b)fluoranthene	0.000100		**ND**						08/27/2019
Benzo(g,h,i)perylene	0.000200		**ND**						08/27/2019
Benzo(k)fluoranthene	0.000100		**ND**						08/27/2019
Chrysene	0.000100		**ND**						08/27/2019
Dibenzo(a,h)anthracene	0.000100		**ND**						08/27/2019
Fluoranthene	0.000200		**ND**						08/27/2019
Fluorene	0.000100		**ND**						08/27/2019
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						08/27/2019
Naphthalene	0.000200		**ND**						08/27/2019
Phenanthrene	0.000400		**ND**						08/27/2019
Pyrene	0.000200		**ND**						08/27/2019
Surr: 2-Fluorobiphenyl			**0.000777**	0.00100		77.7	30	133	08/27/2019
Surr: Nitrobenzene-d5			**0.000832**	0.00100		83.2	39.8	123	08/27/2019
Surr: p-Terphenyl-d14			**0.00109**	0.00100		109.4	48.1	144	08/27/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156749 **SampType:** LCS Units **mg/L**

SampID: LCS-156749

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00164**	0.00200	0	82.0	46.9	113	08/27/2019
Acenaphthylene	0.000100		**0.00189**	0.00200	0	94.5	45.9	129	08/27/2019
Anthracene	0.000100		**0.00173**	0.00200	0	86.3	48.5	117	08/27/2019
Benzo(a)anthracene	0.000100		**0.00176**	0.00200	0	87.9	51.2	117	08/27/2019
Benzo(a)pyrene	0.000100		**0.00200**	0.00200	0	100.0	48.1	127	08/27/2019
Benzo(b)fluoranthene	0.000100		**0.00180**	0.00200	0	89.9	38.1	135	08/27/2019
Benzo(g,h,i)perylene	0.000200		**0.00158**	0.00200	0	78.9	46.5	132	08/27/2019
Benzo(k)fluoranthene	0.000100		**0.00186**	0.00200	0	92.8	47.5	126	08/27/2019
Chrysene	0.000100		**0.00182**	0.00200	0	90.9	50.6	121	08/27/2019
Dibenzo(a,h)anthracene	0.000100		**0.00175**	0.00200	0	87.5	49.2	137	08/27/2019
Fluoranthene	0.000200		**0.00183**	0.00200	0	91.5	48.8	124	08/27/2019
Fluorene	0.000100		**0.00173**	0.00200	0	86.5	45.5	123	08/27/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00162**	0.00200	0	81.2	37.1	143	08/27/2019
Naphthalene	0.000200		**0.00153**	0.00200	0	76.3	18.5	145	08/27/2019
Phenanthrene	0.000400		**0.00188**	0.00200	0	93.8	44.7	131	08/27/2019
Pyrene	0.000200		**0.00180**	0.00200	0	90.0	47.5	123	08/27/2019
Surr: 2-Fluorobiphenyl			**0.000865**	0.00100		86.5	30	133	08/27/2019
Surr: Nitrobenzene-d5			**0.000883**	0.00100		88.3	39.8	123	08/27/2019
Surr: p-Terphenyl-d14			**0.00113**	0.00100		113.5	48.1	144	08/27/2019

Batch 156749 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-156749

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00156**	0.00200	0	78.0	0.001640	4.96	08/27/2019
Acenaphthylene	0.000100		**0.00180**	0.00200	0	90.1	0.001890	4.81	08/27/2019
Anthracene	0.000100		**0.00181**	0.00200	0	90.5	0.001726	4.80	08/27/2019
Benzo(a)anthracene	0.000100		**0.00179**	0.00200	0	89.4	0.001759	1.64	08/27/2019
Benzo(a)pyrene	0.000100		**0.00201**	0.00200	0	100.7	0.002001	0.63	08/27/2019
Benzo(b)fluoranthene	0.000100		**0.00187**	0.00200	0	93.5	0.001798	3.99	08/27/2019
Benzo(g,h,i)perylene	0.000200		**0.00167**	0.00200	0	83.7	0.001577	6.00	08/27/2019
Benzo(k)fluoranthene	0.000100		**0.00195**	0.00200	0	97.4	0.001856	4.83	08/27/2019
Chrysene	0.000100		**0.00192**	0.00200	0	96.2	0.001818	5.66	08/27/2019
Dibenzo(a,h)anthracene	0.000100		**0.00187**	0.00200	0	93.6	0.001751	6.70	08/27/2019
Fluoranthene	0.000200		**0.00188**	0.00200	0	94.0	0.001830	2.71	08/27/2019
Fluorene	0.000100		**0.00173**	0.00200	0	86.3	0.001729	0.24	08/27/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00206**	0.00200	0	103.1	0.001623	23.83	08/27/2019
Naphthalene	0.000200		**0.00155**	0.00200	0	77.3	0.001526	1.24	08/27/2019
Phenanthrene	0.000400		**0.00190**	0.00200	0	95.1	0.001875	1.38	08/27/2019
Pyrene	0.000200		**0.00182**	0.00200	0	91.0	0.001799	1.10	08/27/2019
Surr: 2-Fluorobiphenyl			**0.000815**	0.00100		81.5			08/27/2019
Surr: Nitrobenzene-d5			**0.000853**	0.00100		85.3			08/27/2019
Surr: p-Terphenyl-d14			**0.00114**	0.00100		114.4			08/27/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156749 **SampType:** MS Units **mg/L**

SampID: 19081552-013AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00172**	0.00200	0	85.8	28.3	133	08/27/2019
Acenaphthylene	0.000100		**0.00193**	0.00200	0	96.6	5	176	08/27/2019
Anthracene	0.000100		**0.00184**	0.00200	0	91.9	34.6	131	08/27/2019
Benzo(a)anthracene	0.000100		**0.00186**	0.00200	0	93.0	40.3	132	08/27/2019
Benzo(a)pyrene	0.000100		**0.00210**	0.00200	0	104.8	40.8	132	08/27/2019
Benzo(b)fluoranthene	0.000100		**0.00203**	0.00200	0	101.5	41.9	132	08/27/2019
Benzo(g,h,i)perylene	0.000200		**0.00177**	0.00200	0	88.4	46	132	08/27/2019
Benzo(k)fluoranthene	0.000100		**0.00190**	0.00200	0	95.0	49.4	126	08/27/2019
Chrysene	0.000100		**0.00186**	0.00200	0	93.2	46.1	129	08/27/2019
Dibenzo(a,h)anthracene	0.000100		**0.00207**	0.00200	0	103.6	42.1	146	08/27/2019
Fluoranthene	0.000200		**0.00200**	0.00200	0	100.1	23.9	164	08/27/2019
Fluorene	0.000100		**0.00171**	0.00200	0	85.3	24.3	148	08/27/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00217**	0.00200	0	108.4	26.6	157	08/27/2019
Naphthalene	0.000200		**0.00155**	0.00200	0	77.3	24.2	132	08/27/2019
Phenanthrene	0.000400		**0.00196**	0.00200	0	98.0	36.6	139	08/27/2019
Pyrene	0.000200		**0.00196**	0.00200	0	97.9	14.6	169	08/27/2019
Surr: 2-Fluorobiphenyl			**0.000879**	0.00100		87.9	21.4	142	08/27/2019
Surr: Nitrobenzene-d5			**0.000850**	0.00100		85.0	15	163	08/27/2019
Surr: p-Terphenyl-d14			**0.00114**	0.00100		114.5	10	173	08/27/2019

Batch 156749 **SampType:** MSD Units **mg/L** RPD Limit **40**

SampID: 19081552-013AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00167**	0.00200	0	83.4	0.001716	2.81	08/27/2019
Acenaphthylene	0.000100		**0.00176**	0.00200	0	88.2	0.001932	9.04	08/27/2019
Anthracene	0.000100		**0.00163**	0.00200	0	81.7	0.001839	11.79	08/27/2019
Benzo(a)anthracene	0.000100		**0.00177**	0.00200	0	88.7	0.001859	4.71	08/27/2019
Benzo(a)pyrene	0.000100		**0.00195**	0.00200	0	97.3	0.002095	7.39	08/27/2019
Benzo(b)fluoranthene	0.000100		**0.00184**	0.00200	0	92.2	0.002030	9.63	08/27/2019
Benzo(g,h,i)perylene	0.000200		**0.00165**	0.00200	0	82.6	0.001768	6.84	08/27/2019
Benzo(k)fluoranthene	0.000100		**0.00180**	0.00200	0	90.2	0.001900	5.22	08/27/2019
Chrysene	0.000100		**0.00175**	0.00200	0	87.7	0.001864	6.13	08/27/2019
Dibenzo(a,h)anthracene	0.000100		**0.00191**	0.00200	0	95.6	0.002072	8.02	08/27/2019
Fluoranthene	0.000200		**0.00183**	0.00200	0	91.3	0.002001	9.10	08/27/2019
Fluorene	0.000100		**0.00166**	0.00200	0	83.1	0.001706	2.59	08/27/2019
Indeno(1,2,3-cd)pyrene	0.000100		**0.00211**	0.00200	0	105.6	0.002169	2.68	08/27/2019
Naphthalene	0.000200		**0.00154**	0.00200	0	77.1	0.001546	0.25	08/27/2019
Phenanthrene	0.000400		**0.00171**	0.00200	0	85.7	0.001961	13.40	08/27/2019
Pyrene	0.000200		**0.00181**	0.00200	0	90.7	0.001958	7.67	08/27/2019
Surr: 2-Fluorobiphenyl			**0.000849**	0.00100		84.9			08/27/2019
Surr: Nitrobenzene-d5			**0.000872**	0.00100		87.2			08/27/2019
Surr: p-Terphenyl-d14			**0.00108**	0.00100		107.6			08/27/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156688 **SampType:** MBLK Units µg/L

SampID: MBLK-T190823A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						08/23/2019
Ethylbenzene	2.0		ND						08/23/2019
Toluene	2.0		ND						08/23/2019
Xylenes, Total	4.0		ND						08/23/2019
Surr: 1,2-Dichloroethane-d4			50.3	50.00		100.7	79.6	118	08/23/2019
Surr: 4-Bromofluorobenzene			51.3	50.00		102.6	83.9	115	08/23/2019
Surr: Dibromofluoromethane			49.6	50.00		99.2	84.9	113	08/23/2019
Surr: Toluene-d8			50.0	50.00		99.9	86.7	112	08/23/2019

Batch 156688 **SampType:** LCSD Units µg/L RPD Limit **40**

SampID: LCSD-T190823A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		49.4	50.00	0	98.8	48.45	1.92	08/23/2019
Ethylbenzene	2.0		46.8	50.00	0	93.7	46.45	0.81	08/23/2019
Toluene	2.0		46.1	50.00	0	92.1	45.26	1.75	08/23/2019
Xylenes, Total	4.0		141	150.0	0	93.9	138.2	1.84	08/23/2019
Surr: 1,2-Dichloroethane-d4			50.5	50.00		100.9			08/23/2019
Surr: 4-Bromofluorobenzene			51.0	50.00		102.1			08/23/2019
Surr: Dibromofluoromethane			51.4	50.00		102.8			08/23/2019
Surr: Toluene-d8			48.6	50.00		97.2			08/23/2019

Batch 156688 **SampType:** LCS Units µg/L

SampID: LCS-T190823A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		48.4	50.00	0	96.9	75.8	121	08/23/2019
Ethylbenzene	2.0		46.4	50.00	0	92.9	80.7	114	08/23/2019
Toluene	2.0		45.3	50.00	0	90.5	78.3	112	08/23/2019
Xylenes, Total	4.0		138	150.0	0	92.2	80.2	113	08/23/2019
Surr: 1,2-Dichloroethane-d4			51.2	50.00		102.3	79.6	118	08/23/2019
Surr: 4-Bromofluorobenzene			49.9	50.00		99.8	83.9	115	08/23/2019
Surr: Dibromofluoromethane			50.8	50.00		101.7	84.9	113	08/23/2019
Surr: Toluene-d8			48.4	50.00		96.7	86.7	112	08/23/2019

Batch 156688 **SampType:** MS Units µg/L

SampID: 19081552-002DMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		48.7	50.00	0	97.3	62.5	121	08/23/2019
Ethylbenzene	2.0		47.0	50.00	0	94.0	74.4	130	08/23/2019
Toluene	2.0		44.9	50.00	0	89.8	69.5	118	08/23/2019
Xylenes, Total	4.0		93.4	100.0	0	93.4	71.1	125	08/23/2019
Surr: 1,2-Dichloroethane-d4			50.6	50.00		101.2	79.6	118	08/23/2019
Surr: 4-Bromofluorobenzene			52.0	50.00		103.9	83.9	115	08/23/2019
Surr: Dibromofluoromethane			50.2	50.00		100.5	84.9	113	08/23/2019
Surr: Toluene-d8			47.9	50.00		95.7	86.7	112	08/23/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156688 **SampType:** MSD Units µg/L RPD Limit 20

SampID: 19081552-002DMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**47.3**	50.00	0	94.6	48.66	2.81	08/23/2019
Ethylbenzene	2.0		**46.7**	50.00	0	93.4	46.99	0.60	08/23/2019
Toluene	2.0		**43.6**	50.00	0	87.2	44.89	2.94	08/23/2019
Xylenes, Total	4.0		**91.6**	100.0	0	91.6	93.40	1.99	08/23/2019
Surr: 1,2-Dichloroethane-d4			**49.8**	50.00		99.6			08/23/2019
Surr: 4-Bromofluorobenzene			**52.2**	50.00		104.4			08/23/2019
Surr: Dibromofluoromethane			**49.3**	50.00		98.6			08/23/2019
Surr: Toluene-d8			**46.4**	50.00		92.8			08/23/2019

Batch 156712 **SampType:** MBLK Units µg/L

SampID: MBLK-AE190823A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**ND**						08/23/2019
Ethylbenzene	2.0		**ND**						08/23/2019
Toluene	2.0		**ND**						08/23/2019
Xylenes, Total	4.0		**ND**						08/23/2019
Surr: 1,2-Dichloroethane-d4			**51.0**	50.00		102.1	79.6	118	08/23/2019
Surr: 4-Bromofluorobenzene			**50.4**	50.00		100.9	83.9	115	08/23/2019
Surr: Dibromofluoromethane			**48.1**	50.00		96.2	84.9	113	08/23/2019
Surr: Toluene-d8			**52.1**	50.00		104.2	86.7	112	08/23/2019

Batch 156712 **SampType:** LCS Units µg/L

SampID: LCS-AE190823A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**43.6**	50.00	0	87.2	75.8	121	08/23/2019
Ethylbenzene	2.0		**45.2**	50.00	0	90.3	80.7	114	08/23/2019
Toluene	2.0		**44.7**	50.00	0	89.4	78.3	112	08/23/2019
Xylenes, Total	4.0		**135**	150.0	0	90.2	80.2	113	08/23/2019
Surr: 1,2-Dichloroethane-d4			**51.1**	50.00		102.2	79.6	118	08/23/2019
Surr: 4-Bromofluorobenzene			**50.4**	50.00		100.7	83.9	115	08/23/2019
Surr: Dibromofluoromethane			**48.5**	50.00		96.9	84.9	113	08/23/2019
Surr: Toluene-d8			**51.1**	50.00		102.3	86.7	112	08/23/2019

Batch 156712 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-AE190823A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**47.5**	50.00	0	95.0	43.59	8.56	08/23/2019
Ethylbenzene	2.0		**49.3**	50.00	0	98.5	45.16	8.68	08/23/2019
Toluene	2.0		**48.7**	50.00	0	97.4	44.72	8.52	08/23/2019
Xylenes, Total	4.0		**148**	150.0	0	98.4	135.3	8.71	08/23/2019
Surr: 1,2-Dichloroethane-d4			**51.9**	50.00		103.8			08/23/2019
Surr: 4-Bromofluorobenzene			**51.1**	50.00		102.2			08/23/2019
Surr: Dibromofluoromethane			**49.1**	50.00		98.1			08/23/2019
Surr: Toluene-d8			**51.2**	50.00		102.4			08/23/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156712 **SampType:** MS Units µg/L

SampID: 19081552-013DMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**45.9**	50.00	0	91.9	62.5	121	08/24/2019
Ethylbenzene	2.0		**49.3**	50.00	0	98.6	74.4	130	08/24/2019
Toluene	2.0		**47.3**	50.00	0	94.7	69.5	118	08/24/2019
Xylenes, Total	4.0		**95.5**	100.0	0	95.5	71.1	125	08/24/2019
Surr: 1,2-Dichloroethane-d4			**50.8**	50.00		101.6	79.6	118	08/24/2019
Surr: 4-Bromofluorobenzene			**49.8**	50.00		99.7	83.9	115	08/24/2019
Surr: Dibromofluoromethane			**48.2**	50.00		96.4	84.9	113	08/24/2019
Surr: Toluene-d8			**51.3**	50.00		102.6	86.7	112	08/24/2019

Batch 156712 **SampType:** MSD Units µg/L RPD Limit **20**

SampID: 19081552-013DMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**43.0**	50.00	0	86.0	45.93	6.61	08/24/2019
Ethylbenzene	2.0		**46.2**	50.00	0	92.4	49.31	6.49	08/24/2019
Toluene	2.0		**44.6**	50.00	0	89.1	47.33	6.01	08/24/2019
Xylenes, Total	4.0		**89.7**	100.0	0	89.7	95.50	6.30	08/24/2019
Surr: 1,2-Dichloroethane-d4			**50.6**	50.00		101.2			08/24/2019
Surr: 4-Bromofluorobenzene			**50.1**	50.00		100.2			08/24/2019
Surr: Dibromofluoromethane			**47.9**	50.00		95.8			08/24/2019
Surr: Toluene-d8			**51.4**	50.00		102.9			08/24/2019

Batch 156726 **SampType:** MBLK Units µg/L

SampID: MBLK-AE190826A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**ND**						08/26/2019
Ethylbenzene	2.0		**ND**						08/26/2019
Toluene	2.0		**ND**						08/26/2019
Xylenes, Total	4.0		**ND**						08/26/2019
Surr: 1,2-Dichloroethane-d4			**50.8**	50.00		101.6	79.6	118	08/26/2019
Surr: 4-Bromofluorobenzene			**50.2**	50.00		100.4	83.9	115	08/26/2019
Surr: Dibromofluoromethane			**48.4**	50.00		96.8	84.9	113	08/26/2019
Surr: Toluene-d8			**51.6**	50.00		103.1	86.7	112	08/26/2019

Batch 156726 **SampType:** LCS Units µg/L

SampID: LCS-AE190826A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**52.6**	50.00	0	105.2	75.8	121	08/26/2019
Ethylbenzene	2.0		**56.0**	50.00	0	112.0	80.7	114	08/26/2019
Toluene	2.0		**55.3**	50.00	0	110.5	78.3	112	08/26/2019
Xylenes, Total	4.0		**167**	150.0	0	111.3	80.2	113	08/26/2019
Surr: 1,2-Dichloroethane-d4			**51.4**	50.00		102.7	79.6	118	08/26/2019
Surr: 4-Bromofluorobenzene			**50.2**	50.00		100.4	83.9	115	08/26/2019
Surr: Dibromofluoromethane			**48.5**	50.00		96.9	84.9	113	08/26/2019
Surr: Toluene-d8			**51.5**	50.00		103.1	86.7	112	08/26/2019

Client: ERM **Work Order:** 19081552

Client Project: Champaign GW **Report Date:** 29-Aug-2019

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

Batch 156726 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-AE190826A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**48.6**	50.00	0	97.3	52.62	7.88	08/26/2019
Ethylbenzene	2.0		**51.3**	50.00	0	102.6	55.99	8.72	08/26/2019
Toluene	2.0		**50.8**	50.00	0	101.6	55.26	8.39	08/26/2019
Xylenes, Total	4.0		**153**	150.0	0	102.3	167.0	8.44	08/26/2019
Surr: 1,2-Dichloroethane-d4			**51.8**	50.00		103.5			08/26/2019
Surr: 4-Bromofluorobenzene			**50.8**	50.00		101.6			08/26/2019
Surr: Dibromofluoromethane			**48.8**	50.00		97.6			08/26/2019
Surr: Toluene-d8			**51.7**	50.00		103.4			08/26/2019

Batch 156759 **SampType:** MBLK Units µg/L

SampID: MBLK-T190827A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**ND**						08/27/2019
Ethylbenzene	2.0		**ND**						08/27/2019
Toluene	2.0		**ND**						08/27/2019
Xylenes, Total	4.0		**ND**						08/27/2019
Surr: 1,2-Dichloroethane-d4			**51.2**	50.00		102.5	79.6	118	08/27/2019
Surr: 4-Bromofluorobenzene			**52.8**	50.00		105.5	83.9	115	08/27/2019
Surr: Dibromofluoromethane			**51.9**	50.00		103.9	84.9	113	08/27/2019
Surr: Toluene-d8			**52.3**	50.00		104.6	86.7	112	08/27/2019

Batch 156759 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-T190827A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		**50.4**	50.00	0	100.9	51.43	1.94	08/27/2019
Ethylbenzene	2.0		**48.1**	50.00	0	96.2	49.02	1.85	08/27/2019
Toluene	2.0		**52.5**	50.00	0	105.0	48.52	7.88	08/27/2019
Xylenes, Total	4.0		**144**	150.0	0	96.2	147.7	2.37	08/27/2019
Surr: 1,2-Dichloroethane-d4			**50.4**	50.00		100.7			08/27/2019
Surr: 4-Bromofluorobenzene			**49.6**	50.00		99.2			08/27/2019
Surr: Dibromofluoromethane			**51.3**	50.00		102.6			08/27/2019
Surr: Toluene-d8			**51.9**	50.00		103.7			08/27/2019

Batch 156759 **SampType:** LCS Units µg/L

SampID: LCS-T190827A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**51.4**	50.00	0	102.9	75.8	121	08/27/2019
Ethylbenzene	2.0		**49.0**	50.00	0	98.0	80.7	114	08/27/2019
Toluene	2.0		**48.5**	50.00	0	97.0	78.3	112	08/27/2019
Xylenes, Total	4.0		**148**	150.0	0	98.5	80.2	113	08/27/2019
Surr: 1,2-Dichloroethane-d4			**49.9**	50.00		99.9	79.6	118	08/27/2019
Surr: 4-Bromofluorobenzene			**49.4**	50.00		98.9	83.9	115	08/27/2019
Surr: Dibromofluoromethane			**51.2**	50.00		102.4	84.9	113	08/27/2019
Surr: Toluene-d8			**47.7**	50.00		95.5	86.7	112	08/27/2019

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: ERM

Client Project: Champaign GW

Work Order: 19081552

Report Date: 29-Aug-2019

Carrier: Jacob Wilson

Received By: EEP

Completed by: Amber M. Dilallo
On: 22-Aug-2019

Reviewed by: Emily Pohlman
On: 22-Aug-2019

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C **2.4**
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 (69997) was needed in UMW-106R-WG-20190820 upon arrival at the laboratory. - epohlman - 8/22/2019 4:56:08 PM

Headspace was present in the UMW-300-WG-20190819, UMW-307-WG-20190820 and TB-01-WQ-201908 volatile vials. Greg Moore was notified of this error via work order summary. - adilallo - 8/22/2019 5:04:12 PM

Trip Blank collection date and time will be reported as the received date and time (end of trip). - ehurley - 8/29/2019 2:32:45 PM

CHAIN OF CUSTODY

pg. 1 of 4 Work order # 19081552

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 2.4 °C LTC3
Preserved in: [X] LAB [ ] FIELD **FOR LAB USE ONLY**
Lab Notes: added NaOH C2997 to UMW-106R-WG-20190820 UMW-121-WG-20190821 - 1 HCL vial damaged in lab 8/22/19 8/22/19

Client Comments: Lower 0.0075 mg/L detection limit for Pb
UMW-300, UMW-307 & TB-01 HS present. OK HS in all other vials 8/22/19
Teklab, Inc. Courier Pick Up

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

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	Matrix: Groundwater	BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
19081552-001	UMW-102-WG-20190819	8/19/19, 1640	1	1	1	2	X	X	X	X	X
002	UMW-105-WG-20190821	8/21/19, 1120	1	1	1	2	X	X	X	X	X
003	UMW-106R-WG-20190820	8/20/19, 1900	1	1	1	2	X	X	X	X	X
004	UMW-107R-WG-20190820	8/20/19, 1550	1	1	1	2	X	X	X	X	X
005	UMW-108-WG-20190820	8/20/19, 1040	1	1	1	2	X	X	X	X	X
006	UMW-109-WG-20190820	8/20/19, 0955	1	1	1	2	X	X	X	X	X
007	UMW-111A-WG-20190820	8/20/19, 0915	1	1	1	2	X	X	X	X	X
008	UMW-116-WG-20190820	8/20/19, 1615	1	1	1	2	X	X	X	X	X
009	UMW-117-WG-20190820	8/20/19, 1445	1	1	1	2	X	X	X	X	X
010	UMW-118-WG-20190820	8/20/19, 1120	1	1	1	2	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
G. Moore (ERM)	8/22/19, 1410	[signature]	8/22/19 1410
[signature]	8/22/19 1600	[signature]	8/22/19 1600

BottleOrder: 52647

CHAIN OF CUSTODY

pg. 2 of 4 Work order # 19081552

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	G. Moore

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											
19081552 01	UMW-119-WG-20190819	8/19/19, 1820	1	1	1	2					X						X	X	X	X											
02	UMW-120-WG20190819	8/19/19, 1700	1	1	1	2					X						X	X	X	X											
013	UMW-121-WG-20190821	8/21/19, 1220	1	1	1	2					X						X	X	X	X											
014	UMW-122-WG-20190820	8/20/19, 1745	1	1	1	2					X						X	X	X	X											
015	UMW-123-WG-20190820	8/20/19, 1715	1	1	1	2					X						X	X	X	X											
016	UMW-124-WG-20190821	8/21/19, 1440	1	1	1	2					X						X	X	X	X											
017	UMW-125-WG-20190821	8/21/19, 0810	1	1	1	2					X						X	X	X	X											
018	UMW-126-WG-20190821	8/21/19, 1415	1	1	1	2					X						X	X	X	X											
019	UMW-127-WG-20190821	8/21/19, 1045	1	1	1	2					X						X	X	X	X											
020	UMW-300-WG-20190819	8/19/19, 1830	1	1	1	2					X						X	X	X	X											

Relinquished By	Date/Time	Received By	Date/Time
G. Moore (ERM)	8/22/19, 1410		8/22/19 1415
	8/22/19 1600		8/22/19 1600

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: 52647

CHAIN OF CUSTODY

pg. 3 of 4 Work order # 19081552

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	G. Moore

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												
19081552-021	UMW-301R-WG-20190821	8/21/19, 1150	1	1	1	2					X						X	X	X	X												
022	UMW-302-WG-20190821	8/21/19, 1300	1	1	1	2					X						X	X	X	X												
023	UMW-303-WG-20190820	8/20/19, 1430	1	1	1	2					X						X	X	X	X												
024	UMW-304R-WG-20190821	8/21/19, 0915	1	1	1	2					X						X	X	X	X												
025	UMW-305-WG-20190821	8/21/19, 0930	1	1	1	2					X						X	X	X	X												
026	UMW-306-WG-20190821	8/21/19, 0820	1	1	1	2					X						X	X	X	X												
027	UMW-307-WG-20190820	8/20/19, 1820	1	1	1	2					X						X	X	X	X												
028	UMW-308-WG-20190821	8/21/19, 1310	1	1	1	2					X						X	X	X	X												
029	DUP 001-WG-20190820	8/20/19	1	1	1	2					X						X	X	X	X												
030	DUP 002-WG-20190821	8/21/19	1	1	1	2					X						X	X	X	X												

Relinquished By	Date/Time	Received By	Date/Time
M. Moore (ERM)	8/22/19, 1410		8/22/19 1410
	8/22/19 1600		8/22/19 1600

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: 52647

CHAIN OF CUSTODY

pg. 4 of 4 Work order # 19081552

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	G. Moore

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
19081552-031	DUP 003-WG-20190821	8/21/19	1	1	1	2	X	X	X	X	X
032	EB-01-WQ-20190821	8/21/19, 0855	1	1	1	2	X	X	X	X	X
033	TB-01-WQ-20190821	—				2	X	X			
002	~~MS/MSD 1~~ UMW-105-WG-20190821	8/21/19, 1120	2	1	1	4	X	X	X	X	X
013	~~MS/MSD 2~~ UMW-121-WG-20190821	8/21/19, 1220	2	1	1	4	X	X	X	X	X
	~~EXTRA SET 1 Composite~~	~~8/21/19~~	~~1~~	~~1~~	~~1~~	~~2~~	X	X	X	X	X
	EXTRA SET 2		1	1	1	2	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
A. Moore (ERM)	8/22/19, 1410		8/22/19 1410
	8/22/19 1600		8/22/19 1600

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: 52647

October 04, 2019

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

RE: Champaign GW **WorkOrder:** 19100345

Dear Greg Moore:

TEKLAB, INC received 2 samples on 8/22/2019 4:00:00 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

Report Contents

http://www.teklabinc.com/

Client: ERM
Work Order: 19100345
Client Project: Champaign GW
Report Date: 04-Oct-2019

This reporting package includes the following:

Client: ERM **Work Order:** 19100345

Client Project: Champaign GW **Report Date:** 04-Oct-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: 19100345
Report Date: 04-Oct-2019

Cooler Receipt Temp: °C

Re-analysis of WO#19081552.

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:** 19100345

Client Project: Champaign GW **Report Date:** 04-Oct-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		5/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2020	Collinsville

Client: ERM
Work Order: 19100345
Client Project: Champaign GW
Report Date: 04-Oct-2019
Lab ID: 19100345-001
Client Sample ID: UMW-124-WG-20190821
Matrix: GROUNDWATER
Collection Date: 08/21/2019 14:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5	H	**105**	µg/L	1	10/03/2019 11:38	157986
Ethylbenzene	NELAP	2.0	H	**3.0**	µg/L	1	10/03/2019 11:38	157986
Naphthalene	NELAP	5.0	H	**ND**	µg/L	1	10/03/2019 11:38	157986
Toluene	NELAP	2.0	H	**ND**	µg/L	1	10/03/2019 11:38	157986
Xylenes, Total	NELAP	4.0	H	**ND**	µg/L	1	10/03/2019 11:38	157986
Surr: 1,2-Dichloroethane-d4	*	79.6-118	H	**96.7**	%REC	1	10/03/2019 11:38	157986
Surr: 4-Bromofluorobenzene	*	83.9-115	H	**98.9**	%REC	1	10/03/2019 11:38	157986
Surr: Dibromofluoromethane	*	84.9-113	H	**97.6**	%REC	1	10/03/2019 11:38	157986
Surr: Toluene-d8	*	86.7-112	H	**101.0**	%REC	1	10/03/2019 11:38	157986

Client: ERM
Work Order: 19100345
Client Project: Champaign GW
Report Date: 04-Oct-2019
Lab ID: 19100345-002
Client Sample ID: UMW-126-WG-20190821
Matrix: GROUNDWATER
Collection Date: 08/21/2019 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5	H	**104**	µg/L	1	10/03/2019 11:12	157986
Ethylbenzene	NELAP	2.0	H	**13.8**	µg/L	1	10/03/2019 11:12	157986
Naphthalene	NELAP	5.0	H	**81.5**	µg/L	1	10/03/2019 11:12	157986
Toluene	NELAP	2.0	H	**75.2**	µg/L	1	10/03/2019 11:12	157986
Xylenes, Total	NELAP	4.0	H	**37.3**	µg/L	1	10/03/2019 11:12	157986
Surr: 1,2-Dichloroethane-d4	*	79.6-118	H	**95.9**	%REC	1	10/03/2019 11:12	157986
Surr: 4-Bromofluorobenzene	*	83.9-115	H	**97.3**	%REC	1	10/03/2019 11:12	157986
Surr: Dibromofluoromethane	*	84.9-113	H	**97.7**	%REC	1	10/03/2019 11:12	157986
Surr: Toluene-d8	*	86.7-112	H	**101.6**	%REC	1	10/03/2019 11:12	157986

Client: ERM **Work Order:** 19100345

Client Project: Champaign GW **Report Date:** 04-Oct-2019

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

Batch 157986 **SampType:** MBLK Units µg/L

SampID: MBLK-AE191003A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						10/03/2019
Ethylbenzene	2.0		ND						10/03/2019
Naphthalene	5.0		ND						10/03/2019
Toluene	2.0		ND						10/03/2019
Xylenes, Total	4.0		ND						10/03/2019
Surr: 1,2-Dichloroethane-d4			48.5	50.00		97.0	79.6	118	10/03/2019
Surr: 4-Bromofluorobenzene			49.3	50.00		98.6	83.9	115	10/03/2019
Surr: Dibromofluoromethane			48.6	50.00		97.3	84.9	113	10/03/2019
Surr: Toluene-d8			50.3	50.00		100.6	86.7	112	10/03/2019

Batch 157986 **SampType:** LCS Units µg/L

SampID: LCS-AE191003A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		46.1	50.00	0	92.2	75.8	121	10/03/2019
Ethylbenzene	2.0		48.2	50.00	0	96.3	80.7	114	10/03/2019
Naphthalene	5.0		48.1	50.00	0	96.3	76.1	129	10/03/2019
Toluene	2.0		47.9	50.00	0	95.7	78.3	112	10/03/2019
Xylenes, Total	4.0		145	150.0	0	96.4	80.2	113	10/03/2019
Surr: 1,2-Dichloroethane-d4			48.9	50.00		97.8	79.6	118	10/03/2019
Surr: 4-Bromofluorobenzene			49.2	50.00		98.4	83.9	115	10/03/2019
Surr: Dibromofluoromethane			49.4	50.00		98.9	84.9	113	10/03/2019
Surr: Toluene-d8			49.8	50.00		99.6	86.7	112	10/03/2019

Batch 157986 **SampType:** LCSD Units µg/L RPD Limit 40

SampID: LCSD-AE191003A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		44.9	50.00	0	89.7	46.12	2.75	10/03/2019
Ethylbenzene	2.0		47.8	50.00	0	95.7	48.15	0.62	10/03/2019
Naphthalene	5.0		47.2	50.00	0	94.5	48.14	1.89	10/03/2019
Toluene	2.0		47.1	50.00	0	94.2	47.87	1.66	10/03/2019
Xylenes, Total	4.0		143	150.0	0	95.5	144.6	0.95	10/03/2019
Surr: 1,2-Dichloroethane-d4			47.8	50.00		95.6			10/03/2019
Surr: 4-Bromofluorobenzene			50.0	50.00		99.9			10/03/2019
Surr: Dibromofluoromethane			49.2	50.00		98.4			10/03/2019
Surr: Toluene-d8			50.7	50.00		101.3			10/03/2019

Client: ERM **Work Order:** 19100345

Client Project: Champaign GW **Report Date:** 04-Oct-2019

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

Batch 157986 **SampType:** MS Units **µg/L**

SampID: 19100086-004AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	5.0		**1020**	500.0	574.0	88.8	37	151	10/03/2019
Ethylbenzene	20.0		**632**	500.0	149.6	96.4	37	162	10/03/2019
Naphthalene	50.0		**470**	500.0	18.50	90.4	40	160	10/03/2019
Toluene	20.0	E	**2100**	500.0	1689	81.4	47	150	10/03/2019
Xylenes, Total	40.0		**2130**	1500	698.3	95.6	40	160	10/03/2019
Surr: 1,2-Dichloroethane-d4			**468**	500.0		93.6	79.6	118	10/03/2019
Surr: 4-Bromofluorobenzene			**495**	500.0		99.0	83.9	115	10/03/2019
Surr: Dibromofluoromethane			**491**	500.0		98.2	84.9	113	10/03/2019
Surr: Toluene-d8			**503**	500.0		100.5	86.7	112	10/03/2019

Batch 157986 **SampType:** MSD Units **µg/L** RPD Limit **61**

SampID: 19100086-004AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	5.0		**1000**	500.0	574.0	85.6	1018	1.60	10/03/2019
Ethylbenzene	20.0		**618**	500.0	149.6	93.7	631.5	2.11	10/03/2019
Naphthalene	50.0		**484**	500.0	18.50	93.2	470.4	2.95	10/03/2019
Toluene	20.0	E	**2050**	500.0	1689	72.8	2096	2.08	10/03/2019
Xylenes, Total	40.0		**2090**	1500	698.3	92.5	2132	2.22	10/03/2019
Surr: 1,2-Dichloroethane-d4			**468**	500.0		93.7			10/03/2019
Surr: 4-Bromofluorobenzene			**492**	500.0		98.4			10/03/2019
Surr: Dibromofluoromethane			**491**	500.0		98.3			10/03/2019
Surr: Toluene-d8			**500**	500.0		100.1			10/03/2019

Batch 157986 **SampType:** MS Units **mg/L**

SampID: 19100132-001AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.050		**4.65**	5.000	0	93.1	81.5	113	10/03/2019
Surr: 1,2-Dichloroethane-d4			**4.78**	5.000		95.7	79.6	118	10/03/2019
Surr: 4-Bromofluorobenzene			**4.95**	5.000		99.1	83.9	115	10/03/2019
Surr: Dibromofluoromethane			**4.91**	5.000		98.2	84.9	113	10/03/2019
Surr: Toluene-d8			**5.03**	5.000		100.5	86.7	112	10/03/2019

Batch 157986 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 19100132-001AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.050		**4.58**	5.000	0	91.7	4.653	1.52	10/03/2019
Surr: 1,2-Dichloroethane-d4			**4.75**	5.000		95.0			10/03/2019
Surr: 4-Bromofluorobenzene			**4.87**	5.000		97.3			10/03/2019
Surr: Dibromofluoromethane			**4.87**	5.000		97.4			10/03/2019
Surr: Toluene-d8			**5.04**	5.000		100.8			10/03/2019

19100345

TEKLAB, INC
5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
TEL: (618) 344-1004
FAX: (618) 344-1005

CHAIN-OF-CUSTODY RECORD

WorkOrder: 19100345

Client:
ERM
2 CityPlace Drive, Suite 70
St. Louis, MO 63141

TEL: (314) 682-3980
FAX:
Project: Champaign GW

04-Oct-2019

					Requested Tests						
Sample ID	**ClientSampID**	**Matrix**	**Date Collected**	**Bottle**	**SW8260B**						
19100345-001	UMW-124-WG-201908 21	Groundwater	8/21/2019 2:40:00 PM		A						
19100345-002	UMW-126-WG-201908 21	Groundwater	8/21/2019 2:15:00 PM		A						

Comments: send data in excel for all projects
Excel_STD (Test Code Tabs) and ERM_EQUIS EDD's required.
Email to: erm_global@equisonline.com (Equis Files only) and all reports and EDD's to: edd@erm.com.
Lead CRQL <0.0075)
Per Greg Moore, additional analysis requested for WO #19081552. EAH 10/3/19

	Date/Time		**Date/Time**
Relinquished by:		**Received by:** D. Dalla	10/4/19 1013
Relinquished by:		**Received by:**	
Relinquished by:		**Received by:**	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

ERM

1050 SW 6th Avenue
Suite 1650
Portland, OR 97204

Telephone: (503) 488-5282
Fax: (503) 488-5124

www.erm.com

Memo

To	Lacy Smith
From	Rachel James
Date	07 October 2019
Reference	0500957
Subject	Revised Data Review of Ameren Champaign Groundwater Samples Third Quarter 2019: Teklab, Inc. Data Package 19081552R.

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.

REVISION

This memo was revised to include additional details about samples UMW-124-WG-20190821 and UMW-126-WG-20190821 in the field duplicate section.

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-109-WG-20190820, UMW-124-WG-20190821, UMW-126-WG-20190821, UMW-127-WG-20190821, UMW-302-WG-20190821, and DUP 002-WG-20190821) 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 (LCS) %R, matrix spike/matrix spike duplicate (MS/MSD) %R, and all of the detected sample concentrations were recalculated.

The laboratory described that the chain of custody did not list a collection date and time for the trip blank sample. The laboratory logged the sample in with the date and time the sample was received.

HOLDING TIME AND PRESERVATION EVALUATION

The samples were prepared and analyzed within the method-prescribed time period from the date of collection. The sample shipments were received at the laboratory within the method-prescribed temperature preservation requirements of less than 6°C.

The pH was less than 12 for cyanide analysis in sample UMW-106R-WG-20190820 and the laboratory adjusted the pH with additional sodium hydroxide upon receipt. No qualifications were added to the cyanide result since the sample was preserved properly upon receipt. Additionally, headspace was present in the VOA vials for samples UMW-300-WG-20190819, UMW-307-WG-20190820, and TB-01-WQ-201908. VOC (volatile organic compounds) were non-detected in samples UMW-300-WG-20190819 and UMW-307-WG-20190820 and these results are consistent with the previous four quarters of sampling data. These results were qualified as estimated non-detects (UJ) based upon the headspace, but not rejected due to the agreement with historical results. VOCs were also non-detected in trip blank sample TB-01-WQ-201908 and the results were rejected (R) due to the headspace and lack of historical data for comparison. The samples with inadequate preservation are presented in Table 1.

BLANK EVALUATION

The method blank sample results were nondetected for each of the target analytes. The blank results indicate that no contaminants were introduced to the samples during processing or analysis in the laboratory.

The equipment blank sample results were nondetected for each of the target analyte with two exceptions. Barium and naphthalene were detected in equipment blank sample EB-01-WQ-20190821 at concentrations above the reporting limits. Associated detected sample results that were greater than the blank concentration were qualified as estimates with a high bias (J+). The equipment blank detections and associated sample qualifications are listed in Table 2.

The trip blank sample results were nondetected for each of the target analytes. The trip blank sample results were rejected due to headspace. Therefore, the trip blank results cannot be used to evaluate whether or not contaminants were introduced to the samples during shipment, handling, and storage.

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 laboratory control sample (LCS) and laboratory control sample duplicate (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 matrix spike (MS)/matrix spike duplicate (MSD) recoveries were within the laboratory's limits of acceptance for project samples, with one exception. The RPD for cyanide was above the control limit in the MS/MSD samples prepared from UMW-301R-WG-20190821. The percent recoveries were within control limits for both the MS and MSD samples; therefore, the cyanide result in the parent sample was not qualified due to the RPD result alone. The matrix spike outlier is presented in Table 3.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within acceptable limits with four exceptions. PAH (polynuclear aromatic hydrocarbon) surrogates 2-fluorobiphenyl and nitrobenzene-d5 were recovered below the control limits in sample UMW-302-WG-20190821 and its field duplicate sample DUP 003-WG-20190821; however the dilution factor was greater than 10 times and qualifications were not necessary. The surrogate outliers are presented in Table 4.

INTERNAL STANDARD EVALUATION

The internal standard responses were within acceptable limits.

CALIBRATION RANGE EXCEEDANCES

The cyanide results for MS/MSD samples prepared from UMW-105-WG-20190821 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. The USEPA has not established control criteria for field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision. It was noted that the RPDs for naphthalene and ethylbenzene in sample pair UMW-124-WG-20190821/DUP 002-WG-20190821 were 189 and 131, respectively. The parent sample result (UMW-124-WG-20190821) was inconsistent with VOC and PAH historical data. A comparison of historical results for other project samples was performed and it was found that sample UMW-126-WG-20190821 was also inconsistent with VOC and PAH historical data. The raw data for all three samples (UMW-124-WG-20190821, DUP 002-WG-20190821, and UMW-126-WG-20190821) were reviewed and no problems were found with analyte identification, dilution factors, or result calculations. The laboratory was contacted and was able to locate leftover containers that could be used for confirmation (although the analyses were out of hold and the containers had not been kept cold). The reanalysis results confirmed the original results. Since no errors or problems were discovered with these original results, they are reported as-is. The RPDs for detected results are presented in Table 6.

RECALCULATION

All result recalculations agreed with reported results.

OVERALL ASSESSMENT

The non-detected VOC results in the trip blank sample were determined to be unusable due to headspace in the sample vial. With exception of the rejected results, 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
Third Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Preservation Condition	Limits	ERM Qualifier
19081552	UMW-106R-WG-20190820	9012A	pH < 12	pH ≥ 12	--
	UMW-300-WG-20190819	8260B	Headspace	No headspace	UJ
	UMW-307-WG-20190820				UJ
	TB-01-WQ-201908				R

Lab package reviewed: 19081552

Notes:

R = Result is rejected

UJ = Nondetected, estimated report limit

Table 2
Blank and Associated Suspect Sample Detections
Third Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Blank ID	Associated Sample	Detected Compound	Reported Concentration	Report Limit	Units	ERM Qualifier
19081552	EB-01-WQ-20190821	See below	Barium	0.0056	0.0025	mg/L	--
		See below	Naphthalene	0.000401	0.000200	mg/L	--
	--	UMW-111A-WG-20190820	Barium	0.0506	0.0025	mg/L	J+
	--	UMW-120-WG-20190819		0.0337	0.0025	mg/L	J+
	--	UMW-122-WG-20190820		0.0450	0.0025	mg/L	J+
	--	UMW-123-WG-20190820		0.0217	0.0025	mg/L	J+
	--	UMW-124-WG-20190821		0.0495	0.0025	mg/L	J+
	--	UMW-125-WG-20190821		0.0219	0.0025	mg/L	J+
	--	UMW-126-WG-20190821		0.0303	0.0025	mg/L	J+
	--	UMW-303-WG-20190820		0.0408	0.0025	mg/L	J+
	--	DUP 002-WG-20190821		0.0310	0.0025	mg/L	J+
	--	UMW-124-WG-20190821	Naphthalene	0.00125	0.000200	mg/L	J+
	--	UMW-125-WG-20190821		0.000517	0.000200	mg/L	J+
	--	UMW-127-WG-20190821		0.00195	0.000200	mg/L	J+

Lab package reviewed: 19081552

Notes:

EB = Equipment blank

J+ = Detected results are estimated with a high bias

mg/L = Milligrams per liter

Table 3
Spike Recoveries Outside of Acceptable Limits
Third 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										
19081552	UMW-301R-WG-20190821 MS/MSD	UMW-301R-WG-20190821	Cyanide	80.8/106.2	75-125	27.23	15	--	--	--

Lab package reviewed: 19081552

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

Table 4
Surrogate Recovery Results out of Acceptable Limits
Third Quarter 2019 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Surrogate	Recovery (%)	Limit (%)	Affected Compound	Dilution Factor	ERM Qualifier
19081552	UMW-302-WG-20190821	8270C	2-Fluorobiphenyl	0	21.4-142	--	2000	--
			Nitrobenzene-d5	0	15-163			
	DUP 003-WG-20190821	8270C	2-Fluorobiphenyl	0	21.4-142	--	1000	--
			Nitrobenzene-d5	0	15-163			

Lab package reviewed: 19081552

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

Lab Package	Sample ID	Compound	Reported Concentration	Units	ERM Qualifier
19081552	UMW-105-WG-20190821 MS	Cyanide	0.069	mg/L	--
	UMW-105-WG-20190821 MSD		0.066	mg/L	--

Lab package reviewed: 19081552

Notes:

mg/L = Milligrams per liter

MS = Matrix spike

MSD = Matrix spike duplicate

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

Lab Package	Primary/Duplicate Sample ID	Compound	Concentration		Report Limit		Units	RPD
			Sample	Duplicate	Sample	Duplicate		
10981552	UMW-107R-WG-20190820/ DUP 001-WG-20190820	Cyanide	0.409	0.409	0.050	0.050	mg/L	0.0
		Barium	0.148	0.139	0.0025	0.0025	mg/L	6.3
		Benzene	ND	0.6	0.5	0.5	µg/L	NC
	UMW-124-WG-20190821/ DUP 002-WG-20190821	Cyanide	ND	0.012	0.005	0.005	mg/L	NC
		Barium	0.0495	0.0310	0.0025	0.0025	mg/L	46
		Acenaphthene	ND	0.000471	0.000100	0.000100	mg/L	NC
		Acenaphthylene	ND	0.000311	0.000100	0.000100	mg/L	NC
		Fluorene	ND	0.000167	0.000100	0.000100	mg/L	NC
		Naphthalene	0.00125	0.0436	0.0200	0.00500	mg/L	189
		Benzene	104	116	0.5	0.5	µg/L	10.9
		Ethylbenzene	2.9	13.8	2.0	2.0	µg/L	131
		Toluene	ND	76.7	2.0	2.0	µg/L	NC
		Xylenes, Total	ND	38.6	4.0	4.0	µg/L	NC
	UMW-302-WG-20190821/ DUP 003-WG-20190821	Cyanide	0.152	0.146	0.025	0.025	mg/L	4.0
		Barium	0.0608	0.0603	0.0025	0.0025	mg/L	0.83
		Acenaphthene	0.000467	0.000358	0.000100	0.000100	mg/L	26
		Acenaphthylene	0.000498	0.000370	0.000100	0.000100	mg/L	29
		Naphthalene	1.68	1.14	0.400	0.200	mg/L	38
		Benzene	188	215	10.0	10.0	µg/L	13
		Ethylbenzene	697	741	40.0	40.0	µg/L	6.1
		Toluene	ND	7.5	40.0	2.0	µg/L	NC
		Xylenes, Total	179	228	80.0	4.0	µg/L	24

Lab package reviewed: 19081552

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