August 13, 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 2, 2020 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 second quarter of 2020, which was performed in April 2020. This report discusses the analytical results of the quarterly groundwater monitoring event. Additional groundwater monitoring events are scheduled to be performed each quarter in 2020.

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

Respectfully,

Dave Palmer, PG, PMP, EVMP
Manager, Remediation Projects
Ameren - Environmental Strategy & Analysis
T 314.554.2108
C 314.374.9032
E DPalmer2@ameren.com

Attachment 1

Attachment 1

Groundwater Monitoring Summary – Quarter 2 2020 – Champaign MGP

ERM

1701 Golf Road
Suite 1-700
Rolling Meadows, IL
60008-4242

Telephone: +1 314 733 4490
Fax: +1 314 754 8121

www.erm.com

August 3, 2020

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

Subject: Groundwater Monitoring Summary
Second Quarter 2020 Sampling Event
Champaign Former MGP Site, Champaign, Illinois

Dear Mr. Hall:

On behalf of Ameren Illinois, Environmental Resources Management, Inc. (ERM) has completed the second quarter 2020 groundwater sampling event at the Champaign Former Manufactured Gas Plant Site (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 April 2020.

INTRODUCTION

Groundwater sampling activities for the second quarter 2020 monitoring event were conducted from April 27 through 30. 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 on April 27, prior to initiation of sampling activities. 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 Manufactured Gas Plant (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 second quarter 2020 included the depth to water below each well's top of casing, and calculated groundwater elevation, and is provided in Table 1. Groundwater elevation contour maps for the shallow monitoring zone (100 series wells) and the intermediate depth unit (300 series wells) are provided on Figures 1 and 2, respectively.

The analytical results for groundwater samples collected during this event are summarized in Table 2. The concentrations reported in samples that exceed an applicable Illinois Environmental Protection Agency (IEPA) groundwater remedial objective (RO) are highlighted. The monitoring well locations where sample results exceeded a RO are also shown on Figure 3. The laboratory analytical reports prepared by Teklab are provided in Attachment 1.

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

Purge water that was collected from the monitoring wells during the second quarter 2020 groundwater sampling event was containerized in two 55-gallon poly drums. Approximately 100 gallons of purge water were generated during the April groundwater sampling event. This purge water was removed from the Site for disposal by Clean Harbors Environmental Services, Inc. on April 30th 2020, following completion of sampling activities.

GROUNDWATER MONITORING RESULTS

Groundwater Levels

The measured depths to groundwater and the calculated water level elevations at the Champaign Site for the April 2020 sampling event are shown on Table 1. The depth to groundwater in the shallow monitoring wells ranged from 1.43 to 7.86 feet below land surface (BLS). The shallowest occurrence of groundwater occurred at the on-site monitoring well locations, with depths ranging from 1.43 to 3.76 feet BLS.

As shown on Figure 1, the shallow groundwater at the 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 April 2020 were calculated to be 0.021 (UMW-124 to UMW-105), 0.011 (UMW-124 to UMW-116), and 0.015 (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 25.67 to 28.26 feet BLS. As shown on Figure 2, the intermediate groundwater flow direction generally slopes towards the south and southeast, with a groundwater gradient of approximately 0.0011 ft/ft across the Site from UMW-300 to UMW-308.

Analytical Results

Figure 3 summarizes the monitoring well locations where constituents reported in samples collected during the April 2020 sampling event exceeded at least one Class I or Class II ingestion RO, or groundwater (vapor) inhalation RO for indoor air at residential sites (inhalation 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 second quarter 2020 had at least one MGP-related constituent exceeding a respective Class I or II ingestion, or inhalation RO.

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

Monitoring well locations where concentrations of organic constituents (BTEX or PAHs) from the April sampling event exceeded their respective RO included shallow monitoring wells UMW-124 and UMW-126, and intermediate well UMW-302. Benzene concentrations of 0.0745 mg/L and 0.0742 mg/L were reported in shallow on-site monitoring wells UMW-124 and UMW-126, respectively, which exceed the Class II groundwater RO of 0.025 mg/L. Concentrations of other organic constituents measured in the other seventeen shallow monitoring wells located on-site or off-site were below their respective Class II RO.

Benzene, ethylbenzene, and naphthalene were reported in samples collected from intermediate well UMW-302, at concentrations of 0.426, 0.961, and 3.08 mg/L, respectively, exceeding the Class I groundwater ingestion ROs of 0.005, 0.7, and 0.14 mg/L. The benzene, ethylbenzene, and naphthalene constituent concentrations also exceed the groundwater inhalation ROs for indoor air at residential sites. This intermediate well is screened from 35 to 45 feet below land surface, and is separated by over 20 vertical feet of silty clay from the overlying shallow groundwater monitored in the co-located shallow well UMW-121. Of the nine intermediate monitoring wells screened in the lower groundwater source, UMW-302 is the only intermediate well location with a constituent concentration exceeding a Class I groundwater ingestion or inhalation RO.

Data Validation

A summary of the results of data validation is included with the analytical report in Attachment 1. ERM reviewed analytical data from the second quarter 2020 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-122-WG-20200429, UMW-124-WG-20200429, UMW-302-WG-20200429, UMW-307-WG-20200428, DUP-001-WG-20200429, and DUP 003-WG-20200429).

The results of the data validation indicated that data from the second quarter 2020 groundwater sampling event did not require modification, other than addition of qualifiers. Naphthalene was detected in equipment blank sample, EB-01-WQ-20200428, at a concentration above the reporting limit. An evaluation of equipment blank detections will be discussed in the year-end report for the fourth quarter of 2020. Results less than the blank concentration, but greater than the reporting limit were qualified as non-detect (U) at the sample concentration. Results within five times the blank concentration and greater than the reporting limit were qualified as estimated with a high bias (J+).

The data validation memorandum also discussed method blank contamination, high laboratory control sample recoveries, high matrix spike recoveries, high surrogate recoveries, and quality control sample results that resulted in a potential high bias; however, the validation process determined that these issues had no effect on data quality and no validation qualifiers were applied. The laboratory qualifiers applied for these issues

are therefore not displayed in Table 2. There were no numerical changes to the data as a result of the data validation. All of the data, including qualified data, can be used for decision-making purposes. However, the limitations indicated by the following applied qualifiers should be considered when using the data:

- U = Non-detect.
- UJ = Non-detect, estimated report limit.
- J+ = Detected results are estimated with a high bias.

CONCLUSIONS

Based on the data collected during the April sampling event, on-site monitoring wells UMW-124 and UMW-126 were the only shallow monitoring wells where constituent concentrations were detected in samples that exceeded a Class II groundwater ingestion RO. Benzene was the only constituent reported 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 intermediate groundwater unit had confirmed detections in one monitoring well location which exceeded groundwater ROs: monitoring well UMW-302, located south of the Site. Benzene, ethylbenzene, and naphthalene were reported in UMW-302 at concentrations exceeding the Class I groundwater ingestion ROs and the groundwater inhalation ROs for indoor air.

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

Sincerely,

Gregory Moore, PE
Consultant II, Engineer

Tom H. Stiegemeier, P.E.
Principal Consultant, Engineer

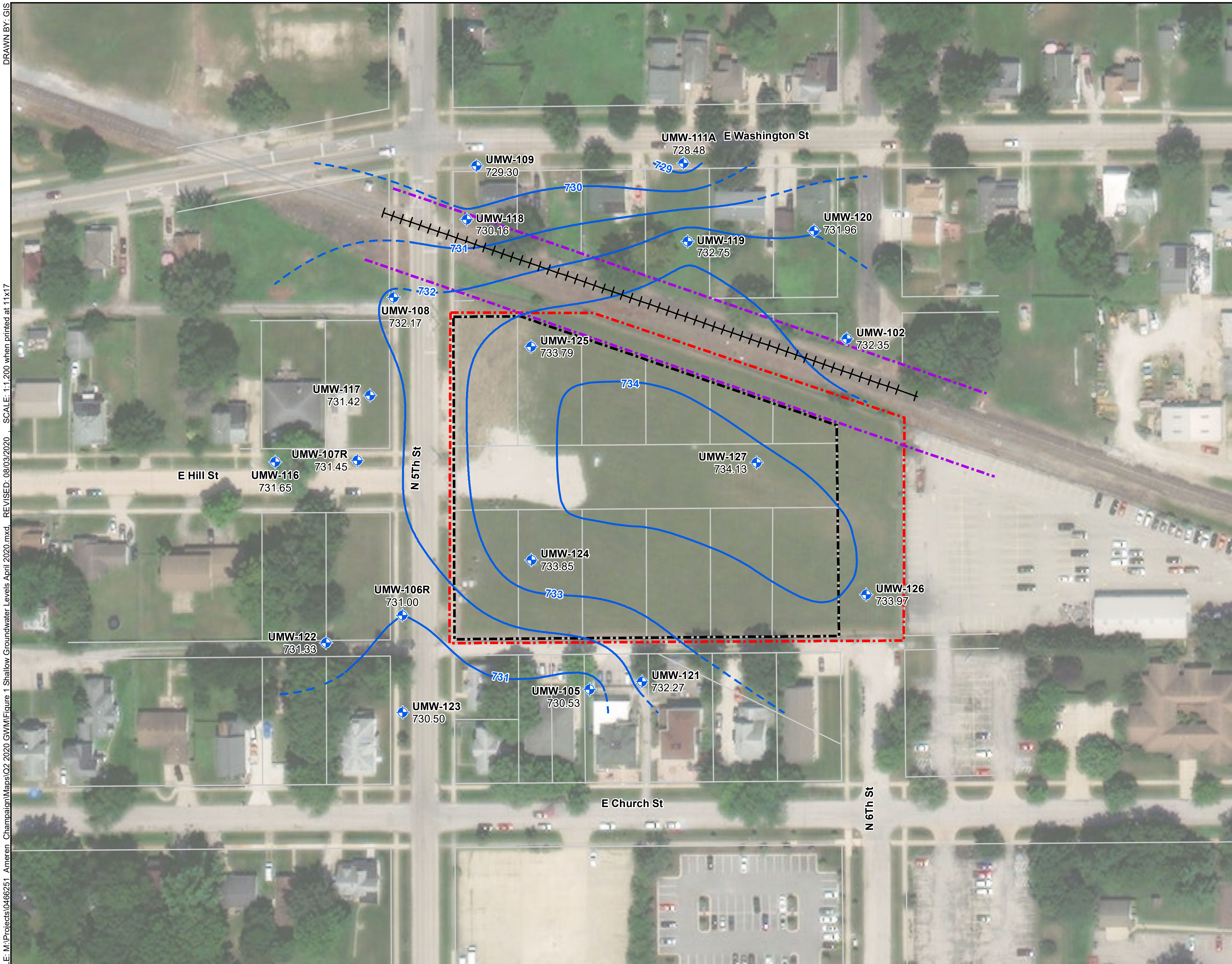
Attachments

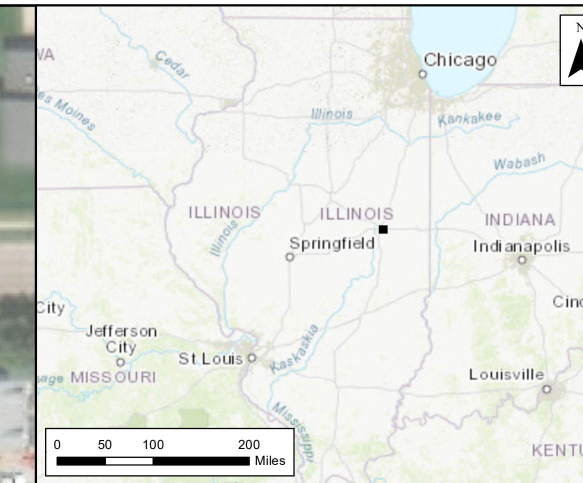
Figure 1 Shallow Groundwater Elevation Contours
Figure 2 Intermediate Groundwater Elevation Contours
Figure 3 Class I and II Groundwater RO Exceedances
Figure 4 Graphs of Concentration versus Time for Selected Monitoring Well Locations

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

Attachment 1 Laboratory Analytical Report and Data Validation Summary

Figures





Legend

- Shallow Monitoring Well with April 2020 Groundwater Elevation
- April 2020 Water Table Contour (Dashed Where Inferred)
- Railroad
- Ameren Property
- 2009 Remediation Site
- Norfolk Southern Railroad Property Boundary
- Parcel Lot Line

Notes:
All water levels in feet above NAVD88 datum.

N

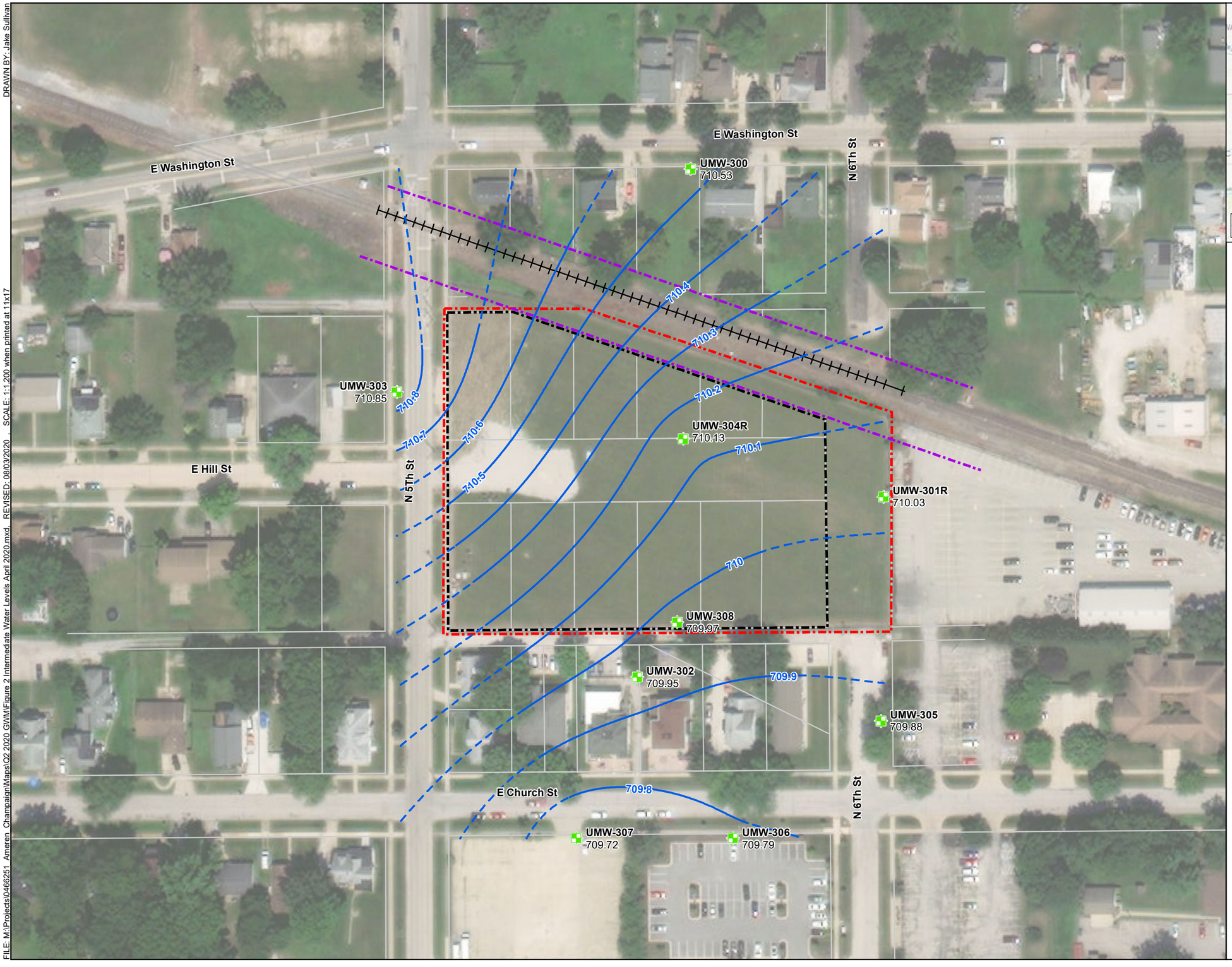
0 100 200
Feet

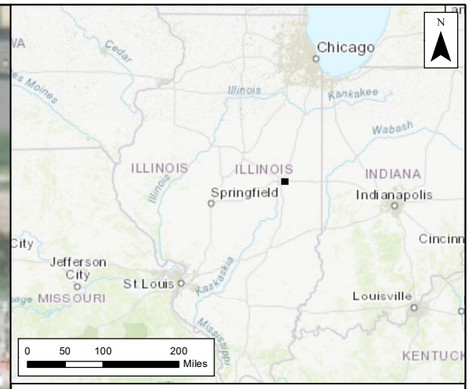
Figure 1
Shallow Groundwater Elevation Contours
April 27, 2020
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com
ERM

FILE: M:\Projects\0466251 Ameren Champaign\Maps\Q2 2020 GWM\Figure 1 Shallow Groundwater Levels April 2020.mxd, REVISED: 08/03/2020 SCALE: 1:1,200 when printed at 11x17 DRAWN BY: GIS

DRAWN BY: Jake Sullivan
SCALE: 1:1,200 when printed at 11x17
REVISED: 08/03/2020
FILE: M:\Projects\0466251 Ameren Champaign\Maps\Q2 2020 GWM\Figure 2 Intermediate Water Levels April 2020.mxd





Legend

- Intermediate Monitoring Well with April 2020 Groundwater Elevation
- April 2020 Potentiometric Surface Contour (Dashed Where Inferred)
- Railroad
- Ameren Property Boundary
- 2009 Remediation Site Boundary
- Norfolk Southern Railroad Property Boundary
- Parcel Lot Line

Notes:
All water levels in feet above NAVD88 datum.

N

0 100 200
Feet

Figure 2
Intermediate Groundwater Elevation Contours
April 27, 2020
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com
ERM

DRAWN BY: Tyler Harris

SCALE: 1:1,200 when printed at 11x17

FILE: M:\Projects\0466251_Ameren_Champaign\Maps\Q2 2020 GWM\Figure 3 April 2020 Exceedences.mxd REVISED: 07/31/2020

E Washington St

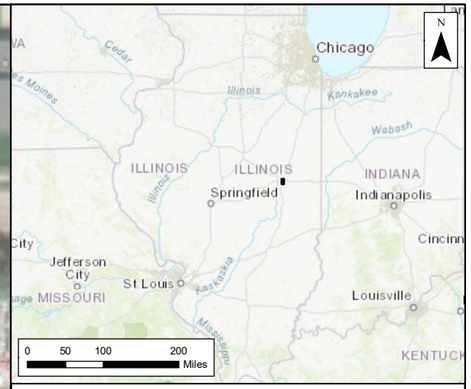
E Hill St

E Church St

N 5Th St

N 6Th St

UMW-109
UMW-111A
UMW-300
UMW-118
UMW-119
UMW-120
UMW-108
UMW-102
UMW-125
UMW-117
UMW-303
UMW-304R
UMW-116
UMW-107R
UMW-127
UMW-301R
UMW-124
Benzene: 0.0745
UMW-126
Benzene: 0.0742
UMW-106R
UMW-308
UMW-122
UMW-121
UMW-105
UMW-302
Benzene: 0.426
Naphthalene: 3.08
Ethylbenzene: 0.961
UMW-123
UMW-305
UMW-307
UMW-306



Legend

- Intermediate Monitoring Well with Exceedance
- Shallow Monitoring Well with Exceedance
- Intermediate Monitoring Well with No Exceedences
- Shallow Monitoring Well with No Exceedances
- Railroad
- Ameren Property Boundary
- 2009 Remediation Site Boundary
- Norfolk Southern Railroad Property Boundary
- Parcel Lot Line

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

N

0 100 200
Feet

Figure 3
Groundwater Ingestion and Inhalation RO Exceedances
April 27-29, 2020
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com
ERM

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

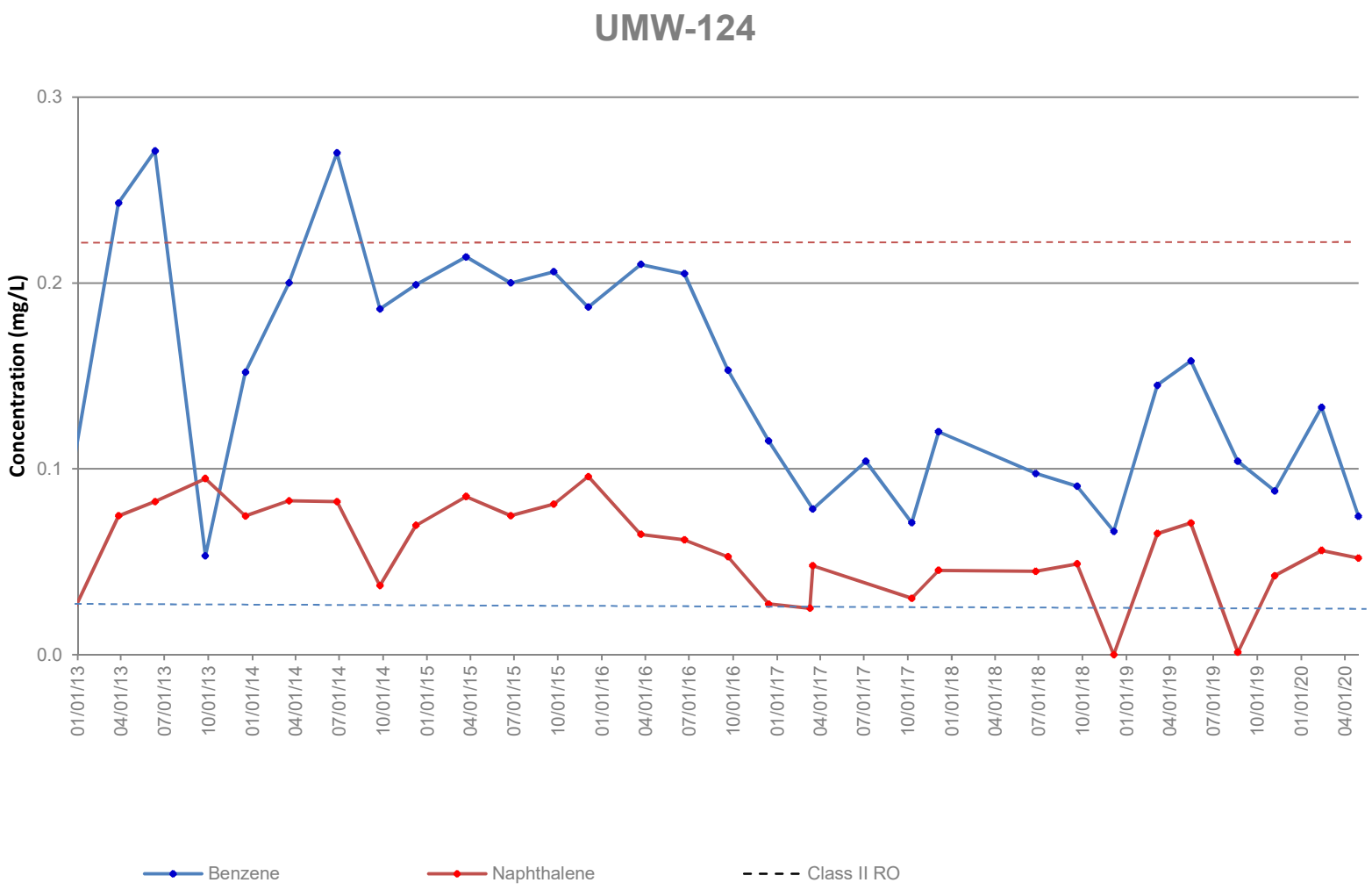


FIGURE 4B
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs

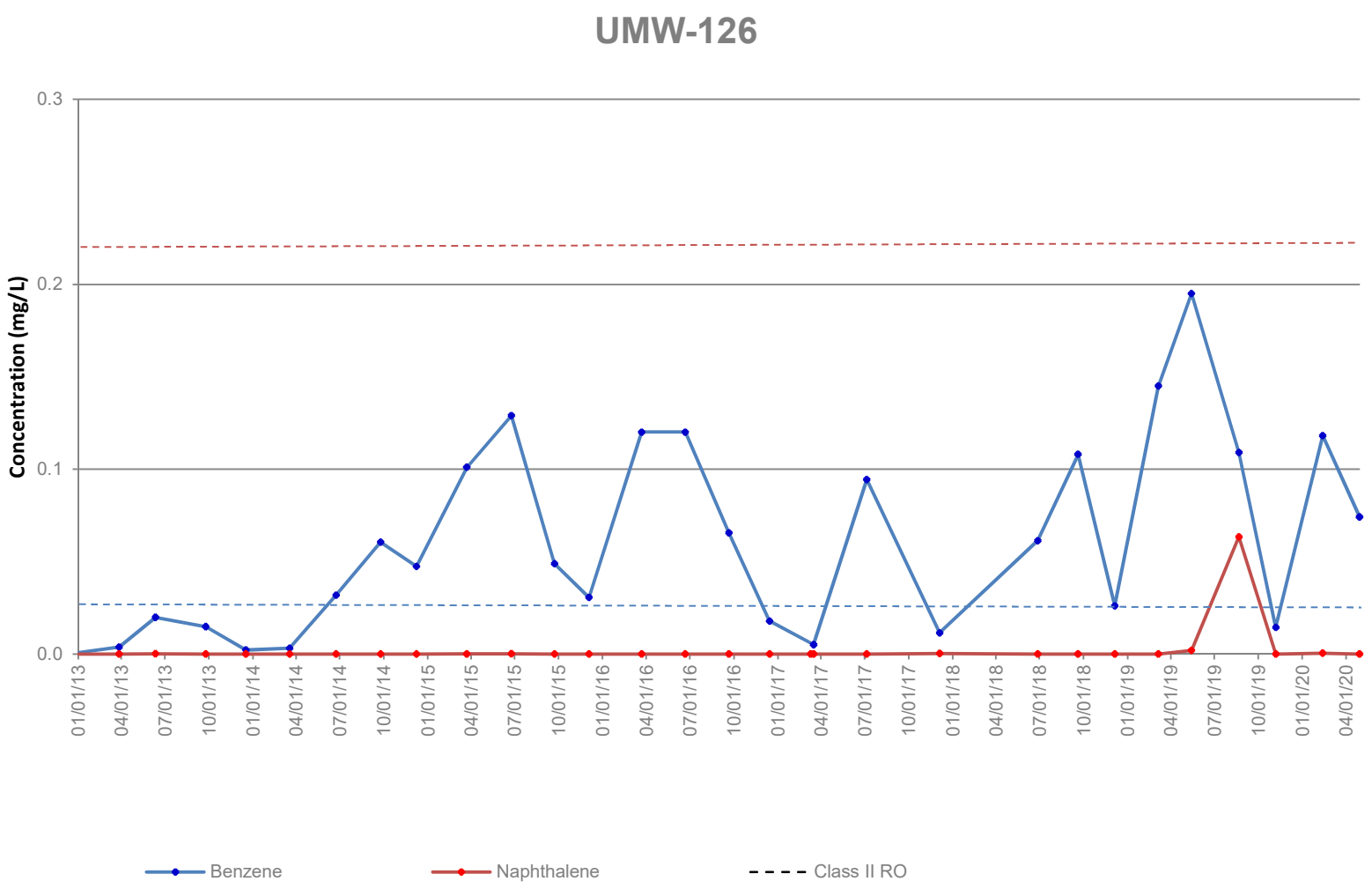
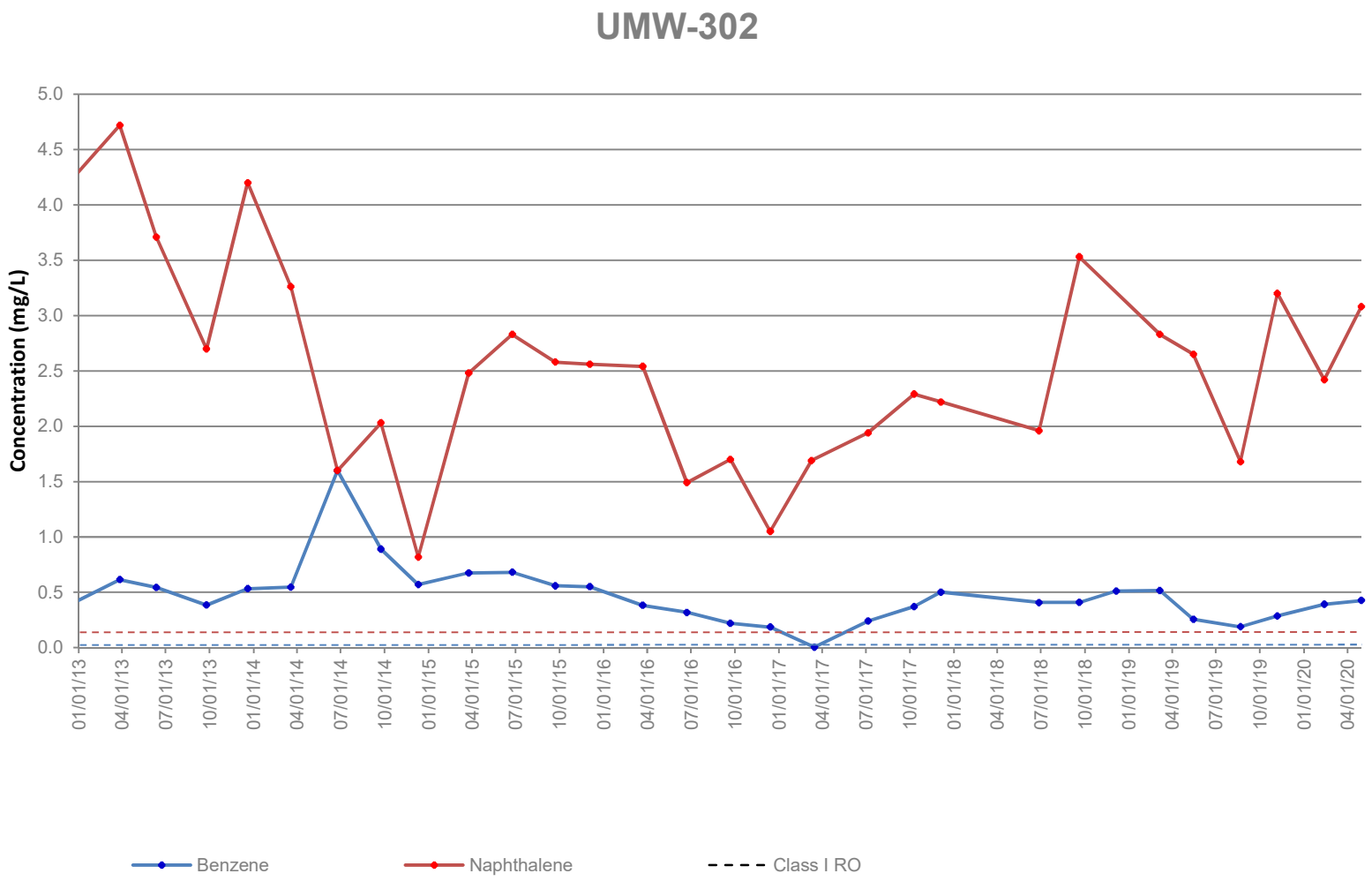


FIGURE 4C
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs



Tables

TABLE 1
Groundwater Elevation Data
April 2020
Ameren - Champaign FMGP Site
Champaign, Illinois

Monitoring Well Number	Total Depth (feet)	Monitored Interval (feet BLS)	Pump Intake Depth (+) (feet BLS)	Elevation (feet NAVD88)		4/27/2020			
				Top of Casing (TOC)	Land Surface (LS)	WL Below TOC (feet)	Elevation (feet NAVD88)	Purge Vol (Gallons)	Flow Rate (mL/min)
UMW-102	22.00	6.70 - 22.0	17	736.95	737.33	4.60	732.35	2.75	274
UMW-105	19.70	9.50 - 19.70	17	736.96	737.33	6.43	730.53	2.50	231
UMW-106R	17.00	7.00 - 17.00	15	736.81	737.06	5.81	731.00	2.00	303
UMW-107R	19.70	9.50 - 19.70	17.7	736.51	736.93	5.06	731.45	3.00	247
UMW-108	15.00	4.80 - 15.00	13	736.49	736.73	4.32	732.17	1.75	265
UMW-109	20.00	10.00 - 20.00	18	734.74	735.13	5.44	729.30	2.50	193
UMW-111A	22.80	9.00 - 22.80	17	736.34	736.63	7.86	728.48	2.50	169
UMW-116	20.00	10.00 - 20.00	18	735.86	736.13	4.21	731.65	2.50	158
UMW-117	15.00	5.00 - 15.00	13	737.16	737.44	5.74	731.42	1.50	270
UMW-118	15.00	5.00 - 15.00	13	735.83	736.06	5.67	730.16	1.75	201
UMW-119	15.00	5.00 - 15.00	13	736.43	736.72	3.68	732.75	2.00	315
UMW-120	15.00	5.00 - 15.00	13	736.65	737.16	4.69	731.96	1.75	265
UMW-121	15.00	5.00 - 15.00	13	738.09	738.43	5.82	732.27	2.00	291
UMW-122	19.75	5.00 - 15.00	13	738.78	739.07	7.45	731.33	2.25	185
UMW-123	15.89	5.89 - 15.89	13.9	736.87	737.16	6.37	730.50	1.75	350
UMW-124 *	15.27	4.97 - 15.02	13.3	736.73	736.91	2.88	733.85	2.50	278
UMW-125 *	15.33	5.06 - 15.11	13.1	737.55	737.68	3.76	733.79	2.25	218
UMW-126 *	15.40	5.13 - 15.18	13.4	736.01	736.18	2.04	733.97	2.50	473
UMW-127 *	15.38	5.11 - 15.16	13.4	735.56	735.77	1.43	734.13	3.00	300
UMW-300	45.00	35.00 - 45.00	42	736.20	736.42	25.67	710.53	3.25	351
UMW-301R *	46.65	36.50 - 46.05	44	735.74	735.83	25.71	710.03	3.50	480
UMW-302	45.00	35.00 - 45.00	43	738.21	738.51	28.26	709.95	3.00	631
UMW-303	45.00	35.00 - 45.00	43	736.68	737.01	25.83	710.85	3.25	480
UMW-304R *	46.16	36.01 - 45.56	44	736.11	736.35	25.98	710.13	3.75	405
UMW-305	45.00	35.00 - 45.00	43	737.14	737.37	27.26	709.88	3.25	492
UMW-306	47.00	37.00 - 47.00	45	736.53	736.81	26.74	709.79	4.00	309
UMW-307	47.00	37.00 - 47.00	44	736.55	736.82	26.83	709.72	3.50	490
UMW-308 *	45.29	35.14 - 44.69	42.7	736.84	737.02	26.87	709.97	3.50	442

Notes:

*	Onsite monitoring well location
R	Replacement monitoring well.
BLS	Below land surface.
NAVD88	North American Vertical Datum of 1988
+	Depth of the inlet of the pump

TABLE 2
Summary of Analytical Results
April 2020
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group	Shallow Wells (Class 2 Groundwater Ingestion)									
			Location ID	UMW-102	UMW-105	UMW-106R	UMW-107R	UMW-108	UMW-109	UMW-111A	UMW-116	UMW-117	UMW-118
			Sample Date	04/27/2020	04/29/2020	04/28/2020	04/28/2020	04/28/2020	04/28/2020	04/28/2020	04/28/2020	04/28/2020	04/28/2020
			Sample Type	N	N	N	N	N	N	N	N	N	N
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES										
Field Parameters													
pH				6.88	7.18	7.18	7.34	6.95	7.4	7.41	7.26	7.05	6.95
Temperature (C)				12.8	12.1	12.1	14.1	13.4	13.8	14.2	15	12.3	12.4
ORP (mV)				35.5	54.9	83	-113.4	33.9	-46.7	30.4	32.8	84.9	80.8
Dissolved Oxygen (mg/L)				2.71	0.98	6.68	0.05	4.04	7.82	4.21	1.52	6.3	2.39
Turbidity (NTU)				2.73	2.09	0.87	13	5.96	3.38	1.69	1.46	5.51	11.1
BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Xylene, Total	10	10	30	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040
PAH, mg/L													
Acenaphthene	0.42	2.1	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Acenaphthylene	0.21	1.05	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Anthracene	2.1	10.5	NS	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
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 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 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	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Fluorene	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
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**	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400
Phenanthrene	0.21	1.05	NS	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
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
General Chemistry, mg/L													
Cyanide CN-	0.2	0.6	NS	< 0.005	0.044	0.007	0.334	0.021	0.016	< 0.005	< 0.005	< 0.005	0.026
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	0.0601	0.0501	0.0940	0.131	0.138	0.0892	0.0513	0.0799	0.0900	0.101
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	0.0186	< 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	< 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 limit.
The laboratory reporting limit is shown.
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:
U = Nondetected
UJ = Non-detect, estimated report limit
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Ingestion
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ingestion
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater Inhalation Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 2
Summary of Analytical Results
April 2020
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	UMW-124	UMW-125	UMW-126	UMW-126
			Sample Date	04/28/2020	04/27/2020	04/29/2020	04/29/2020	04/28/2020	04/29/2020	04/29/2020	04/30/2020	04/29/2020	04/29/2020
			Sample Type	N	N	N	N	N	N	FD	N	N	FD
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES										
Field Parameters													
pH				7.17	7.46	6.99	7.13	7.36	11.44	11.44	8.89	7.78	7.78
Temperature (C)				11.1	11.4	11.4	10.8	12.1	10.5	10.5	10.1	11.5	11.5
ORP (mV)				86.9	47.8	97.1	116.8	76.3	-202.8	-202.8	56	41.1	41.1
Dissolved Oxygen (mg/L)				7	9.48	6.33	3.73	3.6	1.74	1.74	2.63	1.42	1.42
Turbidity (NTU)				11.6	7.28	2.97	1.49	1.72	2.35	2.35	2.64	6.47	6.47
BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0745	0.0727	< 0.0005	0.0742	0.0687
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0087	0.0096	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0500	0.0532	< 0.0020	0.0035	0.0036
Xylene, Total	10	10	30	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	0.0252	0.0274	< 0.0040	< 0.0040	< 0.0040
PAH, mg/L													
Acenaphthene	0.42	2.1	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000567	0.000797 J+	< 0.000100	< 0.000100	0.000117 J+
Acenaphthylene	0.21	1.05	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000337	0.000541 J+	< 0.000100	< 0.000100	< 0.000100 UJ
Anthracene	2.1	10.5	NS	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
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	0.000115	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100 UJ
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100	< 0.000100	< 0.000100	0.000107	< 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	0.000102	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Fluoranthene	0.28	1.4	NS	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Fluorene	0.28	1.4	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000229	0.000534 J+	< 0.000200	< 0.000200	< 0.000200 UJ
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000100	< 0.000100	< 0.000100	0.000105	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Naphthalene	0.14	0.22	**0.075**	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	0.0520	0.0482	< 0.000400	< 0.000887 U	< 0.00115 U
Phenanthrene	0.21	1.05	NS	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	0.00114	< 0.000600	< 0.000600	0.000708
Pyrene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000320	< 0.000200	< 0.000200	0.000230
General Chemistry, mg/L													
Cyanide CN-	0.2	0.6	NS	0.032	< 0.005	0.065	0.011	< 0.005	< 0.005	0.009	0.019	< 0.005	< 0.005
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	0.0853	0.0645	0.0876	0.0307	0.0210	0.0373	0.0365	0.0133	0.0421	0.0427
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	< 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 limit.
The laboratory reporting limit is shown.
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:
U = Nondetected
UJ = Non-detect, estimated report limit
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Ingestion
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ingestic
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater Inhalat
Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 2
Summary of Analytical Results
April 2020
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group		Intermediate Wells (Class 1 Groundwater Ingestion)			Intermediate Wells (Class 1 Groundwater Ingestion)					
			Location ID	UMW-127	UMW-300	UMW-301R	UMW-302	UMW-302	UMW-303	UMW-304R	UMW-305	UMW-306	UMW-307
			Sample Date	04/29/2020	04/28/2020	04/29/2020	04/29/2020	04/29/2020	04/28/2020	04/30/2020	04/29/2020	04/29/2020	04/28/2020
			Sample Type	N	N	N	N	FD	N	N	N	N	N
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES										
Field Parameters													
pH				13.01	7.41	7.65	7.52	7.52	7.31	8.16	7.57	7.68	7.59
Temperature (C)				10.3	14.7	14.1	14.3	14.3	15.2	12.7	14.4	14	15.2
ORP (mV)				-38.6	37.4	-57.3	-132.9	-132.9	-57.6	36	-23.9	-55.8	17
Dissolved Oxygen (mg/L)				1.35	2.08	1.05	0.1	0.1	0.18	2.33	1.2	1.33	1.52
Turbidity (NTU)				9.2	2.11	5.44	0.95	0.95	2.24	68.2	3.93	2.44	1.8
BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	0.0019	< 0.0005	< 0.0005	**0.426**	**0.458**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	< 0.0020	**0.961**	**1.06**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0020	< 0.0200	< 0.0200	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Xylene, Total	10	10	30	< 0.0040	< 0.0040	< 0.0040	0.268	0.281	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040
PAH, mg/L													
Acenaphthene	0.42	2.1	NS	0.000229	< 0.000100	0.00401	0.000770	0.000957	0.000136	0.000580	< 0.000100	< 0.000100	< 0.000100
Acenaphthylene	0.21	1.05	NS	< 0.000100	< 0.000100	0.00443	0.000721	0.000903	0.000112 J+	0.00117	< 0.000100	< 0.000100	0.000490
Anthracene	2.1	10.5	NS	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
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	0.000118
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
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	0.000172
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	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Fluorene	0.28	1.4	NS	< 0.000200	< 0.000200	0.000338	< 0.000200	< 0.000200	0.000225	0.000266	< 0.000200	< 0.000200	< 0.000200
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**	0.00188 J+	< 0.000400	< 0.000400	**3.08**	**3.43**	0.00306 J+	< 0.000441 U	< 0.000400	< 0.000400	< 0.000400
Phenanthrene	0.21	1.05	NS	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	0.000838	0.000894	< 0.000600	0.000608	< 0.000600
Pyrene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000254	0.000273	< 0.000200	< 0.000200	0.000211
General Chemistry, mg/L													
Cyanide CN-	0.2	0.6	NS	< 0.005	< 0.005	< 0.005	0.087	0.089	< 0.005	< 0.005	0.006	0.015	0.050
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	0.121	0.0901	0.0781	0.0592	0.0559	0.0420	0.0765	0.103	0.115	0.117
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	< 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 limit.
The laboratory reporting limit is shown.
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:
U = Nondetected
UJ = Non-detect, estimated report limit
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Ingestion
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ingestic
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater Inhalat
Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 2
Summary of Analytical Results
April 2020
Ameren - Champaign FMGP Site
Champaign, Illinois

				Location Group		Field Quality Control	
				Location ID	UMW-308	Equipment Blank	Trip Blank
				Sample Date	04/29/2020	04/28/2020	04/30/2020
				Sample Type	N	EB	TB
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES				
Field Parameters							
pH				8.05	7.05		
Temperature (C)				13.5	12.3		
ORP (mV)				-93.2	84.9		
Dissolved Oxygen (mg/L)				1.29	6.3		
Turbidity (NTU)				7.84	5.51		
BTEX, mg/L							
Benzene	0.005	0.025	**0.11**	< 0.0005	< 0.0005	< 0.0005	
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	< 0.0020	
Toluene	1	2.5	530	< 0.0020	< 0.0020	< 0.0020	
Xylene, Total	10	10	30	< 0.0040	< 0.0040	< 0.0040	
PAH, mg/L							
Acenaphthene	0.42	2.1	NS	0.000172	< 0.000100		
Acenaphthylene	0.21	1.05	NS	< 0.000100	< 0.000100		
Anthracene	2.1	10.5	NS	< 0.000300	< 0.000300		
Benzo(a)anthracene	0.00013	0.00065	NS	< 0.000100	< 0.000100		
Benzo(a)pyrene	0.0002	0.002	NS	< 0.000100	< 0.000100		
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100	< 0.000100		
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200	< 0.000200		
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.000100	< 0.000100		
Chrysene	0.0015	0.0075	NS	< 0.000100	< 0.000100		
Dibenzo(a,h)anthracene	0.0003	0.0015	NS	< 0.000100	< 0.000100		
Fluoranthene	0.28	1.4	NS	< 0.000300	< 0.000300		
Fluorene	0.28	1.4	NS	< 0.000200	< 0.000200		
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000100	< 0.000100		
Naphthalene	0.14	0.22	**0.075**	< 0.000400	0.00168		
Phenanthrene	0.21	1.05	NS	< 0.000600	< 0.000600		
Pyrene	0.21	1.05	NS	< 0.000200	< 0.000200		
General Chemistry, mg/L							
Cyanide CN-	0.2	0.6	NS	0.013	< 0.005		
Metals, mg/L							
Arsenic	0.05	0.2	NS	< 0.0250	< 0.0250		
Barium	2	2	NS	0.118	< 0.0025		
Cadmium	0.005	0.05	NS	< 0.0020	< 0.0020		
Chromium	0.1	1	NS	< 0.0050	< 0.0050		
Lead	0.0075	0.1	NS	< 0.0075	< 0.0075		
Mercury	0.002	0.01	0.053	< 0.00020	< 0.00020		
Selenium	0.05	0.05	NS	< 0.0400	< 0.0400		
Silver	0.05		NS	< 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 limit.
The laboratory reporting limit is shown.
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:
U = Nondetected
UJ = Non-detect, estimated report limit
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Ingestion
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ingestic
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater Inhalat
Diffusion & Advection at Residential Sites.
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/4/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	8/19/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0002
	11/6/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	0.000268	0.000131	0.000185	< 0.0002
	2/10/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/27/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200
UMW-105	6/27/2018	<0.0005	0.004	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/6/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	0.000135	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200
UMW-106R	6/25/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200
UMW-107R	6/27/2018	0.0076	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	0.0045	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0038	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	0.0021	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	0.0033	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	0.0006	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200
UMW-108	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200
UMW-109	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.002 BU	<0.005
	3/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	0.000116	<0.0002	<0.0004	<0.002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.002	<0.005
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.002	<0.005
	11/6/2019	<0.0001	0.000324	<0.0001	0.000413	<0.0001	<0.0001	<0.0002	<0.0004	0.000438	<0.005
	2/10/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/27/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-105	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.0162	<0.0004	<0.0001	0.057
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.049
	12/5/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.057
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.045
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.044
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.042
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.052
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.037
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.044
UMW-106R	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.017
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.022
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.018
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.014
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.007
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.024
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.041
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.014
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.007
UMW-107R	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.453
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.381
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.385
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.333
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.406
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.409
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.376
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.342
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.334
UMW-108	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.030
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0002	<0.0004	0.032
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.028
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.027
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.021
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.024
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.028
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.025
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.021
UMW-109	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.031
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.036
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.024
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.010
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.017
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.020
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000104	<0.0001	<0.0002	<0.0004	<0.0002	0.030
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.019
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.016

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200
UMW-116	6/25/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000200
UMW-117	6/25/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU UJ	<0.0001 BU UJ
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000192	<0.000385
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-118	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-119	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	0.000144	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/19/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-120	6/26/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.000167	<0.000167 UJ	<0.000167 BU	<0.000167	<0.000167	<0.000167	<0.000167
	3/6/2019	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/19/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/10/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/27/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/4/2019	<0.0001	<0.0001	<0.0001	0.000339	<0.0001	<0.0001	<0.0002	<0.0004	0.000245	<0.005
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-116	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000206	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0004	<0.0002	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-117	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001	<0.0001	0.000102	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/20/2019	<0.000192	<0.000192	<0.000192	<0.000385	<0.000192	<0.000192	<0.000385	<0.000769	<0.000385	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-118	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.031
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.034
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.043
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.028
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.028
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.029
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.041
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.028
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.026
UMW-119	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.036
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.033
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	0.026
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.031
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.027
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.035
	11/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.033
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.033
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.032
UMW-120	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.000167	<0.000167	<0.000167	<0.000333 BU	<0.000167	<0.000167	<0.000333	<0.000667	<0.000333 BU	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	2/10/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/27/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
Ameren - Champaign FMGP Site
Champaign, Illinois

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

Well ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene, total (mg/L)	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a) anthracene (mg/L)	Benzo(a) pyrene (mg/L)	Benzo(b) fluoranthene (mg/L)	Benzo(g,h,i) perylene (mg/L)
UMW-121	6/27/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/6/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-122	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
	9/18/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/5/2019	<0.0005	< 0.002	< 0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	0.000115	0.000107	< 0.000200
UMW-123	6/26/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/5/2019	<0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	<0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-124	6/25/2018	0.0975	0.0091	0.0469	0.024	0.000486	0.000272	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.0869	0.009	0.0415	0.0236	0.000469	0.000248	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0664	0.0067	0.0313	0.018	0.000326	0.000187	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	**0.145**	0.0128	0.0743	0.0364	0.000586	0.00033	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	**0.166**	0.0177	0.103	0.048	0.000667	0.000405	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.104	0.0029	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0881	0.0084	0.0483	0.0229	0.000448	0.000278	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	**0.133**	0.0148	0.0926	0.0423	0.000549	0.000340	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	0.0745	0.0087	0.0500	0.0252	0.000567	0.000337	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-125	6/27/2018	0.0091	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.0078	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0007	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/6/2019	0.0037	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	0.0040	<0.002	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.0065	<0.002	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0008	<0.002	<0.002	<0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/30/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-126	6/27/2018	0.061	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.108	<0.002	0.0034	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	0.0261	<0.002	<0.002	<0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	**0.142**	<0.002	0.0046	0.0022	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	**0.195**	0.0038	0.0337	0.0068	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.109	0.0143	0.0804	0.0391	0.000616	0.000382	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0144	<0.002	<0.002	<0.0040	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	**0.118**	< 0.0020	0.0060	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	0.0742	< 0.0020	0.0035	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.141
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.138
	12/5/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.108
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.122
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.098
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.099
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.117
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.101
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.065
UMW-122	6/27/2018	<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	0.027
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.028
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.017
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.013
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.013
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.018
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.015
	04/29/2020	< 0.000100	< 0.000100	0.000102	< 0.000300	< 0.000200	0.000105	< 0.000400	< 0.000600	< 0.000200	0.011
UMW-123	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-124	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000179	<0.0001	0.0449	<0.0004	<0.0001	0.010
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000142	<0.0001	0.0489	<0.0004	<0.0001	0.010
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000109	<0.0001	<0.00255 U	<0.0004	<0.0002	0.008
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000204	<0.0001	0.0652	<0.0004	<0.0002	0.011
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000253	<0.0001	0.0709	<0.0004	<0.0002	0.007
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00125	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000160	<0.0001	0.0425	<0.0004	<0.0002	<0.005
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	0.000201	< 0.000100	0.0561	< 0.000400	< 0.000200	0.013
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	0.000229	< 0.000100	0.0520	< 0.000600	< 0.000200	< 0.005
UMW-125	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000748	<0.0004	<0.0001	0.038
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00102	<0.0004	<0.0001	0.048
	12/5/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.055
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.041
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000338	<0.0004	<0.0002	0.033
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000517	<0.0004	<0.0002	0.031
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000239	<0.0004	<0.0002	0.061
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.036
	04/30/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.019
UMW-126	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000385	<0.0004	<0.0001	<0.005
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000505 U	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00195	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.0634	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	0.000476	< 0.000400	< 0.000200	< 0.005
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000887 U	< 0.000600	< 0.000200	< 0.005

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/27/2018	0.0031	< 0.002	< 0.002	< 0.002	0.00022	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	0.0029	< 0.002	< 0.002	< 0.002	0.000238	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	0.0021	< 0.002	< 0.002	< 0.002	0.000171	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/6/2019	0.0012	< 0.002	< 0.002	< 0.002	0.000149	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	0.0021	< 0.002	< 0.002	< 0.004	0.000202	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	0.0024	< 0.002	< 0.002	< 0.004	0.000199	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	0.0025	< 0.002	< 0.002	< 0.004	0.000216	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	0.0017	< 0.0020	< 0.0020	< 0.0040	0.000166 J	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000200 UJ
	04/29/2020	0.0019	< 0.0020	< 0.0020	< 0.0040	0.000229	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-300	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/17/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001 UJ	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/5/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/13/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/19/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/4/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-301R	6/27/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00411	0.00488	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00274	0.00337	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00349	0.00425	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	0.00407	0.00423	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.00317	0.00328	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.00317	0.00403	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.00396	0.00584	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00346	0.00375	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00401	0.00443	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-302	6/27/2018	**0.407**	**0.703**	<0.02	0.175	0.000349	0.000474	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	**0.409**	**0.751**	<0.02	0.198	0.000456	0.000652	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/5/2018	**0.511**	**0.886**	<0.02	0.238	0.000368	0.00053	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	**0.516**	**0.929**	<0.02	0.247	0.000469	0.000593	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	**0.288**	**0.751**	0.0094	0.228	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	**0.188**	**0.697**	<0.04	0.179	0.000467	0.000498	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	**0.286**	**0.687**	<0.04	0.188	0.000614	0.000743	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	**0.391**	**0.863**	< 0.0400	0.256	0.000542	0.000557	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	**0.426**	**0.961**	< 0.0200	0.268	0.000770	0.000721	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-303	6/25/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.000111	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/5/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000136	0.000112 J+	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-304R	6/27/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.000486	0.00108	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.000539	0.00127	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/3/2018	< 0.0005	< 0.002	< 0.002	< 0.002	0.00055	0.00139 J-	<0.0001 BU	<0.0001	<0.0001	<0.0001	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	0.000608	0.00131	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000348	0.000778	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000313	0.000697	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000379	0.000816	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000264	0.000613	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/30/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000580	0.00117	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
Ameren - Champaign FMGP Site
Champaign, Illinois

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

Well ID	Date Sampled	Benzo(k) fluoranthene (mg/L)	Chrysene (mg/L)	Dibenzo(a,h) anthracene (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno(1,2,3-cd) pyrene (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)	Cyanide, total (mg/L)
UMW-127	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000176	<0.0001	0.00192	0.000449	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.00017	<0.0001	<0.0022	0.000451	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	0.000134	<0.0001	<0.00169 U	<0.0004	<0.0002 BU	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.00011	<0.0001	<0.000631 U	<0.0004	<0.0002	<0.005
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000134	<0.0001	0.00138	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000159	<0.0001	0.00195	0.000445	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000156	<0.0001	<0.00208	0.000429	<0.0002	<0.005
	2/12/2020	< 0.000100 UJ	< 0.000100 UJ	< 0.000100 UJ	< 0.000200 UJ	< 0.000100 UJ	< 0.000100 UJ	0.00109 J	< 0.000400 UJ	< 0.000200 UJ	< 0.005
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	0.00188 J+	< 0.000600	< 0.000200	< 0.005
UMW-300	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/17/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	<0.005
	3/5/2019	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/13/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/19/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/4/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-301R	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000241	<0.0001	0.000294	<0.0004	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000142	<0.0001	0.000238	<0.0004	<0.0001	<0.005
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	0.000162	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000237	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000166	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000245	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000215	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	0.000214	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	0.000338	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-302	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**1.96**	<0.0004	<0.0001	0.091
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**3.53**	<0.0004	<0.0001	0.113
	12/5/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<2.2U	<0.0004	<0.0002	0.134
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**2.83**	<0.0004	<0.0002	0.120
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**2.65**	<0.0004	<0.0002	0.130
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**1.68**	<0.0004	<0.0002	0.152
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	**3.2**	<0.0004	<0.0002	0.135
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	**2.42**	< 0.000400	< 0.000200	0.070
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	**3.08**	< 0.000600	< 0.000200	0.087
UMW-303	6/25/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00188 U	<0.0004	<0.0002	<0.005
	3/5/2019	<0.0001 UJ	<0.0001 UJ	<0.0001 UJ	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 UJ	<0.005
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00238	<0.0004	<0.0002	<0.005
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00305 J+	<0.0004	<0.0002	<0.005
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	0.00372	< 0.000400	< 0.000200	< 0.005
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	0.000225	< 0.000100	0.00306 J+	0.000838	0.000254	< 0.005
UMW-304R	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.00576	<0.0004	<0.0001	<0.005
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	<0.005
	12/3/2018	<0.0001	<0.0001	<0.0001	<0.0002 BU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 BU	<0.005
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00106 U	<0.0004	<0.0002	<0.005
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000472	<0.0004	<0.0002	<0.005
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	<0.005
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.000233	<0.0004	<0.0002	<0.005
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	< 0.005
	04/30/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	0.000266	< 0.000100	< 0.000441 U	0.000894	0.000273	< 0.005

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0001 BU
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	< 0.0005	< 0.002	< 0.002	< 0.004	0.000283	0.000283	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-306	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200
	04/29/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200
UMW-307	6/26/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/18/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/14/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/20/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/5/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/11/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000400 UJ	< 0.000400 UJ	< 0.000400 UJ	< 0.000400 UJ	< 0.000400 UJ	< 0.000400 UJ	< 0.000800 UJ
	04/28/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	0.000490	< 0.000300	0.000118	0.000192	0.000172	< 0.000200
UMW-308	6/27/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	9/19/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	0.000134	<0.0001	<0.0001	<0.0001	<0.0001
	12/4/2018	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 UJ	<0.0001
	3/6/2019	< 0.0005	< 0.002	< 0.002	< 0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	5/15/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	8/21/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	11/6/2019	< 0.0005	< 0.002	< 0.002	< 0.004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002
	2/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000200 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000400 UJ
	04/29/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000172	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200

TABLE 3
Analytical Results by Parameter
June 2018 to April 2020
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	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000366	<0.0004	<0.0001	0.014
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.012
	12/4/2018	<0.0001 BU	<0.0001 BU	<0.0001 BU	<0.0002	<0.0001	<0.0001 BU	<0.0002	<0.0004	<0.0002	0.011
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002 UJ	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.007
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	0.000113	<0.0001	**0.910**	<0.0004	<0.0002	0.011
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.008
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.008
	2/12/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.008
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.006
UMW-306	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.018
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.019
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002 SU	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002 SU	0.014
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.014
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.000352	<0.0004	<0.0002	0.014
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.020
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.018
	2/11/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100	< 0.000200	< 0.000400	< 0.000200	0.011
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	0.000608	< 0.000200	0.015
UMW-307	6/26/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.048
	9/18/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.053
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.046
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.056
	5/14/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.046
	8/20/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.032
	11/5/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.029
	2/11/2020	< 0.000400 UJ	< 0.000400 UJ	< 0.000400 UJ	< 0.000800 UJ	< 0.000400 UJ	< 0.000400 UJ	< 0.000800 UJ	< 0.00160 UJ	< 0.000800 UJ	0.046
	04/28/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	0.000211	0.050
UMW-308	6/27/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0001	0.022
	9/19/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	0.005	<0.0004	0.000107	0.018
	12/4/2018	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.00025 U	<0.0004	<0.0002	0.018
	3/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.011
	5/15/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.022
	8/21/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.015
	11/6/2019	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0002	<0.0004	<0.0002	0.012
	2/12/2020	< 0.000200 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000400 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000400 UJ	< 0.000800 UJ	< 0.000400 UJ	0.006
	04/29/2020	< 0.000100	< 0.000100	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.013

Notes:
< = Compound not detected at concentrations above the laboratory reporting detection limit.
The laboratory reporting detection limit is shown.
mg/L = milligrams per liter
Qualifiers:
BU = Compound was found in the blank and sample; analyte was analyzed but not detected.
U = Non-detect
J = Detected results are estimated
UJ = Non-detect, estimated report limit
SU = Non-detect, spike recovery outside recovery limits
J- = Detected Results are estimated with a low bias
J+ = Detected Results are estimated with a high bias
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I GROUNDWATER 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

May 07, 2020

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

RE: Champaign GW

WorkOrder: 20041763

Dear Greg Moore:

TEKLAB, INC received 33 samples on 4/30/2020 3:16:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Elizabeth A. Hurley

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

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

This reporting package includes the following:

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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: 20041763
Report Date: 07-May-2020

Cooler Receipt Temp: 5.1 °C

Locations

Collinsville

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

Springfield

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

Kansas City

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

Collinsville Air

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

Chicago

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

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2021	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2021	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		3/14/2021	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		1/31/2021	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-001 **Client Sample ID:** UMW-102-WG-20200427

Matrix: GROUNDWATER **Collection Date:** 04/27/2020 16:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 15:50	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 15:24	164740
Barium	NELAP	0.0025		**0.0601**	mg/L	1	05/01/2020 15:24	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 15:24	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 15:24	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 15:24	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 15:24	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 15:24	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:33	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 19:42	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 19:42	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 19:42	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 19:42	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 19:42	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/03/2020 19:42	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/03/2020 19:42	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 19:42	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**89.4**	%REC	1	05/03/2020 19:42	164770
Surr: Nitrobenzene-d5	*	15-163		**88.6**	%REC	1	05/03/2020 19:42	164770
Surr: p-Terphenyl-d14	*	10-173		**100.8**	%REC	1	05/03/2020 19:42	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 19:51	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 19:51	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 19:51	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 19:51	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**91.7**	%REC	1	04/30/2020 19:51	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**97.9**	%REC	1	04/30/2020 19:51	164754
Surr: Dibromofluoromethane	*	87.4-111		**103.1**	%REC	1	04/30/2020 19:51	164754
Surr: Toluene-d8	*	86.1-110		**93.1**	%REC	1	04/30/2020 19:51	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-002 **Client Sample ID:** UMW-105-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 12:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.044**	mg/L	1	05/04/2020 13:27	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 15:27	164740
Barium	NELAP	0.0025		**0.0501**	mg/L	1	05/01/2020 15:27	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 15:27	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 15:27	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 15:27	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 15:27	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 15:27	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:36	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 20:22	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 20:22	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 20:22	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 20:22	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 20:22	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/03/2020 20:22	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/03/2020 20:22	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 20:22	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**87.1**	%REC	1	05/03/2020 20:22	164770
Surr: Nitrobenzene-d5	*	15-163		**89.2**	%REC	1	05/03/2020 20:22	164770
Surr: p-Terphenyl-d14	*	10-173		**98.9**	%REC	1	05/03/2020 20:22	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 20:18	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 20:18	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 20:18	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 20:18	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**91.8**	%REC	1	04/30/2020 20:18	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**99.1**	%REC	1	04/30/2020 20:18	164754
Surr: Dibromofluoromethane	*	87.4-111		**103.4**	%REC	1	04/30/2020 20:18	164754
Surr: Toluene-d8	*	86.1-110		**94.9**	%REC	1	04/30/2020 20:18	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-003 **Client Sample ID:** UMW-106R-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 16:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.007**	mg/L	1	05/04/2020 13:31	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 15:42	164740
Barium	NELAP	0.0025		**0.0940**	mg/L	1	05/01/2020 15:42	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 15:42	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 15:42	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 15:42	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 15:42	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 15:42	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:43	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 21:03	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 21:03	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 21:03	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 21:03	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:03	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/03/2020 21:03	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/03/2020 21:03	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 21:03	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**92.1**	%REC	1	05/03/2020 21:03	164770
Surr: Nitrobenzene-d5	*	15-163		**92.9**	%REC	1	05/03/2020 21:03	164770
Surr: p-Terphenyl-d14	*	10-173		**105.5**	%REC	1	05/03/2020 21:03	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 20:45	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 20:45	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 20:45	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 20:45	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**89.4**	%REC	1	04/30/2020 20:45	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**99.0**	%REC	1	04/30/2020 20:45	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.2**	%REC	1	04/30/2020 20:45	164754
Surr: Toluene-d8	*	86.1-110		**94.6**	%REC	1	04/30/2020 20:45	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-004 **Client Sample ID:** UMW-107R-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.100		**0.334**	mg/L	20	05/04/2020 17:08	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 15:46	164740
Barium	NELAP	0.0025		**0.131**	mg/L	1	05/01/2020 15:46	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 15:46	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 15:46	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 15:46	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 15:46	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 15:46	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:45	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 21:45	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 21:45	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 21:45	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 21:45	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 21:45	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/03/2020 21:45	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/03/2020 21:45	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 21:45	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**97.7**	%REC	1	05/03/2020 21:45	164770
Surr: Nitrobenzene-d5	*	15-163		**98.5**	%REC	1	05/03/2020 21:45	164770
Surr: p-Terphenyl-d14	*	10-173		**101.3**	%REC	1	05/03/2020 21:45	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 21:12	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 21:12	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 21:12	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 21:12	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**90.3**	%REC	1	04/30/2020 21:12	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**98.1**	%REC	1	04/30/2020 21:12	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.0**	%REC	1	04/30/2020 21:12	164754
Surr: Toluene-d8	*	86.1-110		**97.2**	%REC	1	04/30/2020 21:12	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-005 **Client Sample ID:** UMW-108-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.021**	mg/L	1	05/04/2020 13:44	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 15:49	164740
Barium	NELAP	0.0025		**0.138**	mg/L	1	05/01/2020 15:49	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 15:49	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 15:49	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 15:49	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 15:49	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 15:49	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:48	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 22:25	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 22:25	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 22:25	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 22:25	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 22:25	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/03/2020 22:25	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/03/2020 22:25	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 22:25	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**83.6**	%REC	1	05/03/2020 22:25	164770
Surr: Nitrobenzene-d5	*	15-163		**85.3**	%REC	1	05/03/2020 22:25	164770
Surr: p-Terphenyl-d14	*	10-173		**97.1**	%REC	1	05/03/2020 22:25	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 21:39	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 21:39	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 21:39	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 21:39	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**90.9**	%REC	1	04/30/2020 21:39	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**98.6**	%REC	1	04/30/2020 21:39	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.4**	%REC	1	04/30/2020 21:39	164754
Surr: Toluene-d8	*	86.1-110		**95.3**	%REC	1	04/30/2020 21:39	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-006 **Client Sample ID:** UMW-109-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 10:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.016**	mg/L	1	05/04/2020 11:43	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 15:53	164740
Barium	NELAP	0.0025		**0.0892**	mg/L	1	05/01/2020 15:53	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 15:53	164740
Chromium	NELAP	0.0050		**0.0186**	mg/L	1	05/01/2020 15:53	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 15:53	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 15:53	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 15:53	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:50	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 23:06	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 23:06	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 23:06	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 23:06	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:06	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/03/2020 23:06	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/03/2020 23:06	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 23:06	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**92.7**	%REC	1	05/03/2020 23:06	164770
Surr: Nitrobenzene-d5	*	15-163		**95.0**	%REC	1	05/03/2020 23:06	164770
Surr: p-Terphenyl-d14	*	10-173		**111.1**	%REC	1	05/03/2020 23:06	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 22:05	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 22:05	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 22:05	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 22:05	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**93.0**	%REC	1	04/30/2020 22:05	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**98.5**	%REC	1	04/30/2020 22:05	164754
Surr: Dibromofluoromethane	*	87.4-111		**103.8**	%REC	1	04/30/2020 22:05	164754
Surr: Toluene-d8	*	86.1-110		**94.4**	%REC	1	04/30/2020 22:05	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-007 **Client Sample ID:** UMW-111A-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 13:49	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 15:57	164740
Barium	NELAP	0.0025		**0.0513**	mg/L	1	05/01/2020 15:57	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 15:57	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 15:57	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 15:57	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 15:57	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 15:57	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:52	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 23:48	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 23:48	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/03/2020 23:48	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 23:48	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/03/2020 23:48	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/03/2020 23:48	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/03/2020 23:48	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/03/2020 23:48	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**91.2**	%REC	1	05/03/2020 23:48	164770
Surr: Nitrobenzene-d5	*	15-163		**89.2**	%REC	1	05/03/2020 23:48	164770
Surr: p-Terphenyl-d14	*	10-173		**101.9**	%REC	1	05/03/2020 23:48	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 22:32	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 22:32	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 22:32	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 22:32	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**93.2**	%REC	1	04/30/2020 22:32	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**96.6**	%REC	1	04/30/2020 22:32	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.1**	%REC	1	04/30/2020 22:32	164754
Surr: Toluene-d8	*	86.1-110		**93.6**	%REC	1	04/30/2020 22:32	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-008 **Client Sample ID:** UMW-116-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 14:15	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:00	164740
Barium	NELAP	0.0025		**0.0799**	mg/L	1	05/01/2020 16:00	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:00	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:00	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:00	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:00	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:00	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:54	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 0:30	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 0:30	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 0:30	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 0:30	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 0:30	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 0:30	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 0:30	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 0:30	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**88.5**	%REC	1	05/04/2020 0:30	164770
Surr: Nitrobenzene-d5	*	15-163		**86.9**	%REC	1	05/04/2020 0:30	164770
Surr: p-Terphenyl-d14	*	10-173		**100.0**	%REC	1	05/04/2020 0:30	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 22:58	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 22:58	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 22:58	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 22:58	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**91.5**	%REC	1	04/30/2020 22:58	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**97.7**	%REC	1	04/30/2020 22:58	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.8**	%REC	1	04/30/2020 22:58	164754
Surr: Toluene-d8	*	86.1-110		**96.0**	%REC	1	04/30/2020 22:58	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-009 **Client Sample ID:** UMW-117-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 15:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 14:19	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:11	164740
Barium	NELAP	0.0025		**0.0900**	mg/L	1	05/01/2020 16:11	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:11	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:11	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:11	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:11	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:11	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 8:57	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 9:40	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 9:40	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 9:40	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 9:40	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 9:40	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 9:40	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 9:40	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 9:40	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**80.4**	%REC	1	05/04/2020 9:40	164770
Surr: Nitrobenzene-d5	*	15-163		**83.8**	%REC	1	05/04/2020 9:40	164770
Surr: p-Terphenyl-d14	*	10-173		**97.1**	%REC	1	05/04/2020 9:40	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 23:26	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 23:26	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 23:26	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 23:26	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**91.3**	%REC	1	04/30/2020 23:26	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**98.0**	%REC	1	04/30/2020 23:26	164754
Surr: Dibromofluoromethane	*	87.4-111		**101.8**	%REC	1	04/30/2020 23:26	164754
Surr: Toluene-d8	*	86.1-110		**95.4**	%REC	1	04/30/2020 23:26	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-010 **Client Sample ID:** UMW-118-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 11:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.026**	mg/L	1	05/04/2020 14:23	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:15	164740
Barium	NELAP	0.0025		**0.101**	mg/L	1	05/01/2020 16:15	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:15	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:15	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:15	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:15	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:15	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:04	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 10:21	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 10:21	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 10:21	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 10:21	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 10:21	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 10:21	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 10:21	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 10:21	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**89.2**	%REC	1	05/04/2020 10:21	164770
Surr: Nitrobenzene-d5	*	15-163		**93.8**	%REC	1	05/04/2020 10:21	164770
Surr: p-Terphenyl-d14	*	10-173		**103.0**	%REC	1	05/04/2020 10:21	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	04/30/2020 23:53	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 23:53	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	04/30/2020 23:53	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	04/30/2020 23:53	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**93.4**	%REC	1	04/30/2020 23:53	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**99.5**	%REC	1	04/30/2020 23:53	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.5**	%REC	1	04/30/2020 23:53	164754
Surr: Toluene-d8	*	86.1-110		**95.1**	%REC	1	04/30/2020 23:53	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-011 **Client Sample ID:** UMW-119-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 8:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.032**	mg/L	1	05/04/2020 14:32	164773
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:30	164740
Barium	NELAP	0.0025		**0.0853**	mg/L	1	05/01/2020 16:30	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:30	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:30	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:30	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:30	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:30	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:11	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 11:01	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 11:01	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 11:01	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 11:01	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:01	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 11:01	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 11:01	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 11:01	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**87.3**	%REC	1	05/04/2020 11:01	164770
Surr: Nitrobenzene-d5	*	15-163		**81.2**	%REC	1	05/04/2020 11:01	164770
Surr: p-Terphenyl-d14	*	10-173		**94.0**	%REC	1	05/04/2020 11:01	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 0:19	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 0:19	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 0:19	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 0:19	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**94.1**	%REC	1	05/01/2020 0:19	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**98.7**	%REC	1	05/01/2020 0:19	164754
Surr: Dibromofluoromethane	*	87.4-111		**101.3**	%REC	1	05/01/2020 0:19	164754
Surr: Toluene-d8	*	86.1-110		**94.9**	%REC	1	05/01/2020 0:19	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-012 **Client Sample ID:** UMW-120-WG-20200427

Matrix: GROUNDWATER **Collection Date:** 04/27/2020 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	05/04/2020 14:36	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:33	164740
Barium	NELAP	0.0025		**0.0645**	mg/L	1	05/01/2020 16:33	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:33	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:33	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:33	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:33	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:33	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:13	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 11:42	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 11:42	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 11:42	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 11:42	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 11:42	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 11:42	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 11:42	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 11:42	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**75.4**	%REC	1	05/04/2020 11:42	164770
Surr: Nitrobenzene-d5	*	15-163		**80.2**	%REC	1	05/04/2020 11:42	164770
Surr: p-Terphenyl-d14	*	10-173		**95.1**	%REC	1	05/04/2020 11:42	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 0:46	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 0:46	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 0:46	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 0:46	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**94.4**	%REC	1	05/01/2020 0:46	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**97.7**	%REC	1	05/01/2020 0:46	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.0**	%REC	1	05/01/2020 0:46	164754
Surr: Toluene-d8	*	86.1-110		**94.7**	%REC	1	05/01/2020 0:46	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-013 **Client Sample ID:** UMW-121-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.065**	mg/L	5	05/04/2020 17:12	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:37	164740
Barium	NELAP	0.0025		**0.0876**	mg/L	1	05/01/2020 16:37	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:37	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:37	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:37	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:37	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:37	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:16	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 12:22	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 12:22	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 12:22	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 12:22	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 12:22	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 12:22	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 12:22	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 12:22	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**88.9**	%REC	1	05/04/2020 12:22	164770
Surr: Nitrobenzene-d5	*	15-163		**85.4**	%REC	1	05/04/2020 12:22	164770
Surr: p-Terphenyl-d14	*	10-173		**93.5**	%REC	1	05/04/2020 12:22	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 1:14	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 1:14	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 1:14	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 1:14	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**93.8**	%REC	1	05/01/2020 1:14	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**98.6**	%REC	1	05/01/2020 1:14	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.1**	%REC	1	05/01/2020 1:14	164754
Surr: Toluene-d8	*	86.1-110		**95.9**	%REC	1	05/01/2020 1:14	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-014 **Client Sample ID:** UMW-122-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 8:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.011**	mg/L	1	05/04/2020 14:45	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:41	164740
Barium	NELAP	0.0025		**0.0307**	mg/L	1	05/01/2020 16:41	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:41	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:41	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:41	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:41	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:41	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:18	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:03	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:03	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 13:03	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:03	164770
Benzo(a)pyrene	NELAP	0.000100		**0.000115**	mg/L	1	05/04/2020 13:03	164770
Benzo(b)fluoranthene	NELAP	0.000100		**0.000107**	mg/L	1	05/04/2020 13:03	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 13:03	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:03	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:03	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**0.000102**	mg/L	1	05/04/2020 13:03	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 13:03	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 13:03	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**0.000105**	mg/L	1	05/04/2020 13:03	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 13:03	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 13:03	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 13:03	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**81.8**	%REC	1	05/04/2020 13:03	164770
Surr: Nitrobenzene-d5	*	15-163		**84.4**	%REC	1	05/04/2020 13:03	164770
Surr: p-Terphenyl-d14	*	10-173		**91.7**	%REC	1	05/04/2020 13:03	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 1:41	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 1:41	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 1:41	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 1:41	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**93.7**	%REC	1	05/01/2020 1:41	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**99.0**	%REC	1	05/01/2020 1:41	164754
Surr: Dibromofluoromethane	*	87.4-111		**101.8**	%REC	1	05/01/2020 1:41	164754
Surr: Toluene-d8	*	86.1-110		**94.6**	%REC	1	05/01/2020 1:41	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-015 **Client Sample ID:** UMW-123-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 17:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 14:54	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:44	164740
Barium	NELAP	0.0025		**0.0210**	mg/L	1	05/01/2020 16:44	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:44	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:44	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:44	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:44	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:44	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:20	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 13:43	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 13:43	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 13:43	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 13:43	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 13:43	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 13:43	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 13:43	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 13:43	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**92.9**	%REC	1	05/04/2020 13:43	164770
Surr: Nitrobenzene-d5	*	15-163		**90.6**	%REC	1	05/04/2020 13:43	164770
Surr: p-Terphenyl-d14	*	10-173		**109.6**	%REC	1	05/04/2020 13:43	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 2:08	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 2:08	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 2:08	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 2:08	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**94.1**	%REC	1	05/01/2020 2:08	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**100.5**	%REC	1	05/01/2020 2:08	164754
Surr: Dibromofluoromethane	*	87.4-111		**103.5**	%REC	1	05/01/2020 2:08	164754
Surr: Toluene-d8	*	86.1-110		**95.3**	%REC	1	05/01/2020 2:08	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-016 **Client Sample ID:** UMW-124-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 14:58	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:48	164740
Barium	NELAP	0.0025		**0.0373**	mg/L	1	05/01/2020 16:48	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:48	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:48	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:48	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:48	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:48	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:22	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000567**	mg/L	1	05/04/2020 14:23	164770
Acenaphthylene	NELAP	0.000100		**0.000337**	mg/L	1	05/04/2020 14:23	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 14:23	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 14:23	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 14:23	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 14:23	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 14:23	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 14:23	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 14:23	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 14:23	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 14:23	164770
Fluorene	NELAP	0.000200		**0.000229**	mg/L	1	05/04/2020 14:23	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 14:23	164770
Naphthalene	NELAP	0.0200		**0.0520**	mg/L	50	05/07/2020 10:16	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 14:23	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 14:23	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**92.9**	%REC	1	05/04/2020 14:23	164770
Surr: Nitrobenzene-d5	*	15-163		**90.6**	%REC	1	05/04/2020 14:23	164770
Surr: p-Terphenyl-d14	*	10-173		**97.7**	%REC	1	05/04/2020 14:23	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**74.5**	µg/L	1	05/01/2020 2:36	164754
Ethylbenzene	NELAP	2.0		**8.7**	µg/L	1	05/01/2020 2:36	164754
Toluene	NELAP	2.0		**50.0**	µg/L	1	05/01/2020 2:36	164754
Xylenes, Total	NELAP	4.0		**25.2**	µg/L	1	05/01/2020 2:36	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**93.6**	%REC	1	05/01/2020 2:36	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**97.7**	%REC	1	05/01/2020 2:36	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.5**	%REC	1	05/01/2020 2:36	164754
Surr: Toluene-d8	*	86.1-110		**93.5**	%REC	1	05/01/2020 2:36	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-017 **Client Sample ID:** UMW-125-WG-20200430

Matrix: GROUNDWATER **Collection Date:** 04/30/2020 8:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.019**	mg/L	1	05/04/2020 15:02	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:52	164740
Barium	NELAP	0.0025		**0.0133**	mg/L	1	05/01/2020 16:52	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:52	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:52	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:52	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:52	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:52	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:10	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 15:04	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 15:04	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 15:04	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 15:04	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:04	164770
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/04/2020 15:04	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 15:04	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 15:04	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**84.8**	%REC	1	05/04/2020 15:04	164770
Surr: Nitrobenzene-d5	*	15-163		**82.6**	%REC	1	05/04/2020 15:04	164770
Surr: p-Terphenyl-d14	*	10-173		**98.8**	%REC	1	05/04/2020 15:04	164770

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 3:02	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 3:02	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 3:02	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 3:02	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**94.3**	%REC	1	05/01/2020 3:02	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**99.0**	%REC	1	05/01/2020 3:02	164754
Surr: Dibromofluoromethane	*	87.4-111		**101.4**	%REC	1	05/01/2020 3:02	164754
Surr: Toluene-d8	*	86.1-110		**95.0**	%REC	1	05/01/2020 3:02	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-018 **Client Sample ID:** UMW-126-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 14:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 16:12	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:55	164740
Barium	NELAP	0.0025		**0.0421**	mg/L	1	05/01/2020 16:55	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:55	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:55	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:55	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:55	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:55	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:13	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 15:44	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 15:44	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 15:44	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 15:44	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 15:44	164770
Naphthalene	NELAP	0.000400		**0.000887**	mg/L	1	05/04/2020 15:44	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 15:44	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 15:44	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**77.9**	%REC	1	05/04/2020 15:44	164770
Surr: Nitrobenzene-d5	*	15-163		**75.5**	%REC	1	05/04/2020 15:44	164770
Surr: p-Terphenyl-d14	*	10-173		**93.3**	%REC	1	05/04/2020 15:44	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**74.2**	µg/L	1	05/01/2020 3:29	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 3:29	164754
Toluene	NELAP	2.0		**3.5**	µg/L	1	05/01/2020 3:29	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 3:29	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**93.6**	%REC	1	05/01/2020 3:29	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**98.9**	%REC	1	05/01/2020 3:29	164754
Surr: Dibromofluoromethane	*	87.4-111		**103.8**	%REC	1	05/01/2020 3:29	164754
Surr: Toluene-d8	*	86.1-110		**96.3**	%REC	1	05/01/2020 3:29	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-019 **Client Sample ID:** UMW-127-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 15:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/04/2020 12:13	164774
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 16:59	164740
Barium	NELAP	0.0025		**0.121**	mg/L	1	05/01/2020 16:59	164740
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 16:59	164740
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 16:59	164740
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 16:59	164740
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 16:59	164740
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/01/2020 16:59	164740
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:16	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000229**	mg/L	1	05/04/2020 16:25	164770
Acenaphthylene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 16:25	164770
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 16:25	164770
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/04/2020 16:25	164770
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 16:25	164770
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/04/2020 16:25	164770
Naphthalene	NELAP	0.000400		**0.00188**	mg/L	1	05/04/2020 16:25	164770
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/04/2020 16:25	164770
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/04/2020 16:25	164770
Surr: 2-Fluorobiphenyl	*	21.4-142		**79.5**	%REC	1	05/04/2020 16:25	164770
Surr: Nitrobenzene-d5	*	15-163		**68.9**	%REC	1	05/04/2020 16:25	164770
Surr: p-Terphenyl-d14	*	10-173		**92.0**	%REC	1	05/04/2020 16:25	164770
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**1.9**	µg/L	1	05/01/2020 3:57	164754
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 3:57	164754
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 3:57	164754
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 3:57	164754
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**92.9**	%REC	1	05/01/2020 3:57	164754
Surr: 4-Bromofluorobenzene	*	88.3-109		**96.4**	%REC	1	05/01/2020 3:57	164754
Surr: Dibromofluoromethane	*	87.4-111		**102.4**	%REC	1	05/01/2020 3:57	164754
Surr: Toluene-d8	*	86.1-110		**95.8**	%REC	1	05/01/2020 3:57	164754

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-020 **Client Sample ID:** UMW-300-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 9:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/05/2020 11:07	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:25	164745
Barium	NELAP	0.0025		**0.0901**	mg/L	1	05/01/2020 17:25	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:25	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:25	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:25	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:25	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:08	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:25	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Acenaphthylene	NELAP	0.000100	B	**ND**	mg/L	1	05/05/2020 19:46	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 19:46	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 19:46	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 19:46	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 19:46	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 19:46	164814
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/05/2020 19:46	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/05/2020 19:46	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 19:46	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**86.3**	%REC	1	05/05/2020 19:46	164814
Surr: Nitrobenzene-d5	*	15-163		**88.4**	%REC	1	05/05/2020 19:46	164814
Surr: p-Terphenyl-d14	*	10-173		**100.1**	%REC	1	05/05/2020 19:46	164814

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 10:08	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 10:08	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 10:08	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 10:08	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**101.8**	%REC	1	05/01/2020 10:08	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**105.0**	%REC	1	05/01/2020 10:08	164767
Surr: Dibromofluoromethane	*	87.4-111		**101.9**	%REC	1	05/01/2020 10:08	164767
Surr: Toluene-d8	*	86.1-110		**98.7**	%REC	1	05/01/2020 10:08	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-021 **Client Sample ID:** UMW-301R-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 17:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/05/2020 11:11	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:29	164745
Barium	NELAP	0.0025		**0.0781**	mg/L	1	05/01/2020 17:29	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:29	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:29	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:29	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:29	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:12	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:18	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.00401**	mg/L	1	05/05/2020 20:27	164814
Acenaphthylene	NELAP	0.000100	B	**0.00443**	mg/L	1	05/05/2020 20:27	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 20:27	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 20:27	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 20:27	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 20:27	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 20:27	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 20:27	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 20:27	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 20:27	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 20:27	164814
Fluorene	NELAP	0.000200		**0.000338**	mg/L	1	05/05/2020 20:27	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 20:27	164814
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/05/2020 20:27	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/05/2020 20:27	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 20:27	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**95.7**	%REC	1	05/05/2020 20:27	164814
Surr: Nitrobenzene-d5	*	15-163		**93.3**	%REC	1	05/05/2020 20:27	164814
Surr: p-Terphenyl-d14	*	10-173		**104.6**	%REC	1	05/05/2020 20:27	164814
Contamination present in the MBLK for Acenaphthylene. Insufficient sample to re-extract.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 10:34	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 10:34	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 10:34	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 10:34	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**102.9**	%REC	1	05/01/2020 10:34	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**107.0**	%REC	1	05/01/2020 10:34	164767
Surr: Dibromofluoromethane	*	87.4-111		**101.2**	%REC	1	05/01/2020 10:34	164767
Surr: Toluene-d8	*	86.1-110		**100.1**	%REC	1	05/01/2020 10:34	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-022 **Client Sample ID:** UMW-302-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 14:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.087**	mg/L	5	05/05/2020 13:30	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:32	164745
Barium	NELAP	0.0025		**0.0592**	mg/L	1	05/01/2020 17:32	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:32	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:32	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:32	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:32	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:15	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:20	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000770**	mg/L	1	05/05/2020 21:09	164814
Acenaphthylene	NELAP	0.000100	B	**0.000721**	mg/L	1	05/05/2020 21:09	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 21:09	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:09	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:09	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:09	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 21:09	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:09	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:09	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:09	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 21:09	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 21:09	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:09	164814
Naphthalene	NELAP	0.400		**3.08**	mg/L	1000	05/07/2020 12:17	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/05/2020 21:09	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 21:09	164814
Surr: 2-Fluorobiphenyl	*	21.4-142	S	**0**	%REC	1000	05/07/2020 12:17	164814
Surr: Nitrobenzene-d5	*	15-163		**80.0**	%REC	1000	05/07/2020 12:17	164814
Surr: p-Terphenyl-d14	*	10-173		**92.2**	%REC	1	05/05/2020 21:09	164814

Surrogate recovery is outside control limits due to matrix interference.

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	5.0		**426**	µg/L	10	05/01/2020 11:00	164767
Ethylbenzene	NELAP	20.0		**961**	µg/L	10	05/01/2020 11:00	164767
Toluene	NELAP	20.0		**ND**	µg/L	10	05/01/2020 11:00	164767
Xylenes, Total	NELAP	40.0		**268**	µg/L	10	05/01/2020 11:00	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**99.2**	%REC	10	05/01/2020 11:00	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**101.8**	%REC	10	05/01/2020 11:00	164767
Surr: Dibromofluoromethane	*	87.4-111		**96.5**	%REC	10	05/01/2020 11:00	164767
Surr: Toluene-d8	*	86.1-110		**100.5**	%REC	10	05/01/2020 11:00	164767

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

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-023 **Client Sample ID:** UMW-303-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 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	05/05/2020 11:59	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:36	164745
Barium	NELAP	0.0025		**0.0420**	mg/L	1	05/01/2020 17:36	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:36	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:36	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:36	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:36	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:19	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:27	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000136**	mg/L	1	05/05/2020 21:50	164814
Acenaphthylene	NELAP	0.000100	B	**0.000112**	mg/L	1	05/05/2020 21:50	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 21:50	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:50	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:50	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:50	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 21:50	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:50	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:50	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:50	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 21:50	164814
Fluorene	NELAP	0.000200		**0.000225**	mg/L	1	05/05/2020 21:50	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 21:50	164814
Naphthalene	NELAP	0.000400		**0.00306**	mg/L	1	05/05/2020 21:50	164814
Phenanthrene	NELAP	0.000600		**0.000838**	mg/L	1	05/05/2020 21:50	164814
Pyrene	NELAP	0.000200		**0.000254**	mg/L	1	05/05/2020 21:50	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**85.4**	%REC	1	05/05/2020 21:50	164814
Surr: Nitrobenzene-d5	*	15-163		**89.2**	%REC	1	05/05/2020 21:50	164814
Surr: p-Terphenyl-d14	*	10-173		**94.7**	%REC	1	05/05/2020 21:50	164814
Contamination present in the MBLK for Acenaphthylene. Insufficient sample to re-extract.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 11:26	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 11:26	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 11:26	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 11:26	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**102.3**	%REC	1	05/01/2020 11:26	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**108.5**	%REC	1	05/01/2020 11:26	164767
Surr: Dibromofluoromethane	*	87.4-111		**100.9**	%REC	1	05/01/2020 11:26	164767
Surr: Toluene-d8	*	86.1-110		**98.6**	%REC	1	05/01/2020 11:26	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-024 **Client Sample ID:** UMW-304R-WG-20200430

Matrix: GROUNDWATER **Collection Date:** 04/30/2020 9:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/05/2020 12:03	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:40	164745
Barium	NELAP	0.0025		**0.0765**	mg/L	1	05/01/2020 17:40	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:40	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:40	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:40	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:40	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:23	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:22	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000580**	mg/L	1	05/05/2020 22:31	164814
Acenaphthylene	NELAP	0.000100	B	**0.00117**	mg/L	1	05/05/2020 22:31	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 22:31	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 22:31	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 22:31	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 22:31	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 22:31	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 22:31	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 22:31	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 22:31	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 22:31	164814
Fluorene	NELAP	0.000200		**0.000266**	mg/L	1	05/05/2020 22:31	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 22:31	164814
Naphthalene	NELAP	0.000400		**0.000441**	mg/L	1	05/05/2020 22:31	164814
Phenanthrene	NELAP	0.000600		**0.000894**	mg/L	1	05/05/2020 22:31	164814
Pyrene	NELAP	0.000200		**0.000273**	mg/L	1	05/05/2020 22:31	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**91.8**	%REC	1	05/05/2020 22:31	164814
Surr: Nitrobenzene-d5	*	15-163		**89.8**	%REC	1	05/05/2020 22:31	164814
Surr: p-Terphenyl-d14	*	10-173		**97.0**	%REC	1	05/05/2020 22:31	164814

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 11:51	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 11:51	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 11:51	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 11:51	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**101.6**	%REC	1	05/01/2020 11:51	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**106.2**	%REC	1	05/01/2020 11:51	164767
Surr: Dibromofluoromethane	*	87.4-111		**100.1**	%REC	1	05/01/2020 11:51	164767
Surr: Toluene-d8	*	86.1-110		**100.8**	%REC	1	05/01/2020 11:51	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-025 **Client Sample ID:** UMW-305-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 10:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.006**	mg/L	1	05/05/2020 12:08	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:43	164745
Barium	NELAP	0.0025		**0.103**	mg/L	1	05/01/2020 17:43	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:43	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:43	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:43	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:43	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:26	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:29	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Acenaphthylene	NELAP	0.000100	B	**ND**	mg/L	1	05/05/2020 23:13	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 23:13	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 23:13	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 23:13	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 23:13	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:13	164814
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/05/2020 23:13	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/05/2020 23:13	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 23:13	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**86.2**	%REC	1	05/05/2020 23:13	164814
Surr: Nitrobenzene-d5	*	15-163		**85.9**	%REC	1	05/05/2020 23:13	164814
Surr: p-Terphenyl-d14	*	10-173		**91.5**	%REC	1	05/05/2020 23:13	164814

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 12:17	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 12:17	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 12:17	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 12:17	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**101.8**	%REC	1	05/01/2020 12:17	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**105.1**	%REC	1	05/01/2020 12:17	164767
Surr: Dibromofluoromethane	*	87.4-111		**100.6**	%REC	1	05/01/2020 12:17	164767
Surr: Toluene-d8	*	86.1-110		**99.4**	%REC	1	05/01/2020 12:17	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-026 **Client Sample ID:** UMW-306-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 8:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.015**	mg/L	1	05/06/2020 8:36	164867
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 18:05	164745
Barium	NELAP	0.0025		**0.115**	mg/L	1	05/01/2020 18:05	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 18:05	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 18:05	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 18:05	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 18:05	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:30	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:32	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:54	164814
Acenaphthylene	NELAP	0.000100	B	**ND**	mg/L	1	05/05/2020 23:54	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 23:54	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:54	164814
Benzo(a)pyrene	NELAP	0.000100	S	**ND**	mg/L	1	05/05/2020 23:54	164814
Benzo(b)fluoranthene	NELAP	0.000100	S	**ND**	mg/L	1	05/05/2020 23:54	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 23:54	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:54	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:54	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:54	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/05/2020 23:54	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 23:54	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/05/2020 23:54	164814
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/05/2020 23:54	164814
Phenanthrene	NELAP	0.000600		**0.000608**	mg/L	1	05/05/2020 23:54	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/05/2020 23:54	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**88.9**	%REC	1	05/05/2020 23:54	164814
Surr: Nitrobenzene-d5	*	15-163		**95.0**	%REC	1	05/05/2020 23:54	164814
Surr: p-Terphenyl-d14	*	10-173		**106.9**	%REC	1	05/05/2020 23:54	164814

Matrix spike did not recover within control limits due to matrix interference.

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 12:43	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 12:43	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 12:43	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 12:43	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**102.8**	%REC	1	05/01/2020 12:43	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**104.4**	%REC	1	05/01/2020 12:43	164767
Surr: Dibromofluoromethane	*	87.4-111		**99.6**	%REC	1	05/01/2020 12:43	164767
Surr: Toluene-d8	*	86.1-110		**99.7**	%REC	1	05/01/2020 12:43	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-027 **Client Sample ID:** UMW-307-WG-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 16:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.010		**0.050**	mg/L	2	05/05/2020 13:12	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 18:16	164745
Barium	NELAP	0.0025		**0.117**	mg/L	1	05/01/2020 18:16	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 18:16	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 18:16	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 18:16	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 18:16	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:56	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:29	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 1:56	164814
Acenaphthylene	NELAP	0.000100	B	**0.000490**	mg/L	1	05/06/2020 1:56	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 1:56	164814
Benzo(a)anthracene	NELAP	0.000100		**0.000118**	mg/L	1	05/06/2020 1:56	164814
Benzo(a)pyrene	NELAP	0.000100		**0.000192**	mg/L	1	05/06/2020 1:56	164814
Benzo(b)fluoranthene	NELAP	0.000100		**0.000172**	mg/L	1	05/06/2020 1:56	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 1:56	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 1:56	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 1:56	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 1:56	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 1:56	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 1:56	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 1:56	164814
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/06/2020 1:56	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/06/2020 1:56	164814
Pyrene	NELAP	0.000200		**0.000211**	mg/L	1	05/06/2020 1:56	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**86.0**	%REC	1	05/06/2020 1:56	164814
Surr: Nitrobenzene-d5	*	15-163		**82.1**	%REC	1	05/06/2020 1:56	164814
Surr: p-Terphenyl-d14	*	10-173		**97.0**	%REC	1	05/06/2020 1:56	164814
Contamination present in the MBLK for Acenaphthylene. Insufficient sample to re-extract.								
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 14:00	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 14:00	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 14:00	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 14:00	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**103.2**	%REC	1	05/01/2020 14:00	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**105.8**	%REC	1	05/01/2020 14:00	164767
Surr: Dibromofluoromethane	*	87.4-111		**99.8**	%REC	1	05/01/2020 14:00	164767
Surr: Toluene-d8	*	86.1-110		**99.1**	%REC	1	05/01/2020 14:00	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-028 **Client Sample ID:** UMW-308-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 17:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.013**	mg/L	1	05/05/2020 12:16	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:47	164745
Barium	NELAP	0.0025		**0.118**	mg/L	1	05/01/2020 17:47	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:47	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:47	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:47	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:47	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 15:41	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:39	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000172**	mg/L	1	05/06/2020 4:00	164814
Acenaphthylene	NELAP	0.000100	B	**ND**	mg/L	1	05/06/2020 4:00	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 4:00	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 4:00	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 4:00	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 4:00	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 4:00	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 4:00	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 4:00	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 4:00	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 4:00	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 4:00	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 4:00	164814
Naphthalene	NELAP	0.000400		**ND**	mg/L	1	05/06/2020 4:00	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/06/2020 4:00	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 4:00	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**82.5**	%REC	1	05/06/2020 4:00	164814
Surr: Nitrobenzene-d5	*	15-163		**86.9**	%REC	1	05/06/2020 4:00	164814
Surr: p-Terphenyl-d14	*	10-173		**100.6**	%REC	1	05/06/2020 4:00	164814

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 15:17	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 15:17	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 15:17	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 15:17	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**102.1**	%REC	1	05/01/2020 15:17	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**104.2**	%REC	1	05/01/2020 15:17	164767
Surr: Dibromofluoromethane	*	87.4-111		**99.3**	%REC	1	05/01/2020 15:17	164767
Surr: Toluene-d8	*	86.1-110		**98.9**	%REC	1	05/01/2020 15:17	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-029 **Client Sample ID:** DUP 001-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**0.009**	mg/L	1	05/05/2020 12:21	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 17:51	164745
Barium	NELAP	0.0025		**0.0365**	mg/L	1	05/01/2020 17:51	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 17:51	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 17:51	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 17:51	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 17:51	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 16:07	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:41	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000797**	mg/L	1	05/06/2020 18:31	164814
Acenaphthylene	NELAP	0.000100	B	**0.000541**	mg/L	1	05/06/2020 18:31	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 18:31	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 18:31	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 18:31	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 18:31	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 18:31	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 18:31	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 18:31	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 18:31	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 18:31	164814
Fluorene	NELAP	0.000200		**0.000534**	mg/L	1	05/06/2020 18:31	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 18:31	164814
Naphthalene	NELAP	0.0100		**0.0482**	mg/L	25	05/07/2020 11:37	164814
Phenanthrene	NELAP	0.000600		**0.00114**	mg/L	1	05/06/2020 18:31	164814
Pyrene	NELAP	0.000200		**0.000320**	mg/L	1	05/06/2020 18:31	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**51.5**	%REC	25	05/07/2020 11:37	164814
Surr: Nitrobenzene-d5	*	15-163	S	**0**	%REC	25	05/07/2020 11:37	164814
Surr: p-Terphenyl-d14	*	10-173		**122.0**	%REC	1	05/06/2020 18:31	164814

Surrogate recovery is outside control limits due to matrix interference.

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**72.7**	µg/L	1	05/01/2020 15:43	164767
Ethylbenzene	NELAP	2.0		**9.6**	µg/L	1	05/01/2020 15:43	164767
Toluene	NELAP	2.0		**53.2**	µg/L	1	05/01/2020 15:43	164767
Xylenes, Total	NELAP	4.0		**27.4**	µg/L	1	05/01/2020 15:43	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**102.7**	%REC	1	05/01/2020 15:43	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**104.4**	%REC	1	05/01/2020 15:43	164767
Surr: Dibromofluoromethane	*	87.4-111		**100.6**	%REC	1	05/01/2020 15:43	164767
Surr: Toluene-d8	*	86.1-110		**98.8**	%REC	1	05/01/2020 15:43	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-030 **Client Sample ID:** DUP 002-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	05/05/2020 12:25	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 18:27	164745
Barium	NELAP	0.0025		**0.0427**	mg/L	1	05/01/2020 18:27	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 18:27	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 18:27	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 18:27	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 18:27	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 16:11	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:44	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100	I	**0.000117**	mg/L	1	05/07/2020 13:38	164814
Acenaphthylene	NELAP	0.000100	BI	**ND**	mg/L	1	05/07/2020 13:38	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/07/2020 10:57	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/07/2020 10:57	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/07/2020 10:57	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/07/2020 10:57	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/07/2020 10:57	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/07/2020 10:57	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/07/2020 10:57	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/07/2020 10:57	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/07/2020 10:57	164814
Fluorene	NELAP	0.000200	I	**ND**	mg/L	1	05/07/2020 13:38	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/07/2020 10:57	164814
Naphthalene	NELAP	0.000400		**0.00115**	mg/L	1	05/07/2020 10:57	164814
Phenanthrene	NELAP	0.000600		**0.000708**	mg/L	1	05/07/2020 10:57	164814
Pyrene	NELAP	0.000200		**0.000230**	mg/L	1	05/07/2020 10:57	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**109.7**	%REC	1	05/07/2020 10:57	164814
Surr: Nitrobenzene-d5	*	15-163		**108.3**	%REC	1	05/07/2020 10:57	164814
Surr: p-Terphenyl-d14	*	10-173		**117.0**	%REC	1	05/07/2020 10:57	164814

The associated internal standard was outside method criteria. Subsequent analysis produced similar results. Results of "I" flagged analytes should be considered estimated.

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**68.7**	µg/L	1	05/01/2020 16:09	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 16:09	164767
Toluene	NELAP	2.0		**3.6**	µg/L	1	05/01/2020 16:09	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 16:09	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**102.6**	%REC	1	05/01/2020 16:09	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**104.1**	%REC	1	05/01/2020 16:09	164767
Surr: Dibromofluoromethane	*	87.4-111		**97.5**	%REC	1	05/01/2020 16:09	164767
Surr: Toluene-d8	*	86.1-110		**99.7**	%REC	1	05/01/2020 16:09	164767

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-031 **Client Sample ID:** DUP 003-WG-20200429

Matrix: GROUNDWATER **Collection Date:** 04/29/2020 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.025		**0.089**	mg/L	5	05/05/2020 13:34	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 18:31	164745
Barium	NELAP	0.0025		**0.0559**	mg/L	1	05/01/2020 18:31	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 18:31	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 18:31	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 18:31	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 18:31	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 16:14	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/01/2020 10:51	164748
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**0.000957**	mg/L	1	05/06/2020 11:50	164814
Acenaphthylene	NELAP	0.000100	B	**0.000903**	mg/L	1	05/06/2020 11:50	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 11:50	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 11:50	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 11:50	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 11:50	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 11:50	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 11:50	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 11:50	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 11:50	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 11:50	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 11:50	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 11:50	164814
Naphthalene	NELAP	0.400		**3.43**	mg/L	1000	05/07/2020 12:57	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/06/2020 11:50	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 11:50	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**50.0**	%REC	1000	05/07/2020 12:57	164814
Surr: Nitrobenzene-d5	*	15-163	S	**320.0**	%REC	1000	05/07/2020 12:57	164814
Surr: p-Terphenyl-d14	*	10-173		**98.3**	%REC	1	05/06/2020 11:50	164814

Surrogate recovery is outside control limits due to matrix interference.

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	5.0		**458**	µg/L	10	05/01/2020 16:35	164767
Ethylbenzene	NELAP	20.0		**1060**	µg/L	10	05/01/2020 16:35	164767
Toluene	NELAP	20.0		**ND**	µg/L	10	05/01/2020 16:35	164767
Xylenes, Total	NELAP	40.0		**281**	µg/L	10	05/01/2020 16:35	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**103.9**	%REC	10	05/01/2020 16:35	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**104.3**	%REC	10	05/01/2020 16:35	164767
Surr: Dibromofluoromethane	*	87.4-111		**100.4**	%REC	10	05/01/2020 16:35	164767
Surr: Toluene-d8	*	86.1-110		**100.7**	%REC	10	05/01/2020 16:35	164767

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

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Lab ID: 20041763-032 **Client Sample ID:** EB-01-WQ-20200428

Matrix: GROUNDWATER **Collection Date:** 04/28/2020 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	05/05/2020 12:55	164826
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		**< 0.0250**	mg/L	1	05/01/2020 18:34	164745
Barium	NELAP	0.0025		**< 0.0025**	mg/L	1	05/01/2020 18:34	164745
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/01/2020 18:34	164745
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/01/2020 18:34	164745
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/01/2020 18:34	164745
Selenium	NELAP	0.0400		**< 0.0400**	mg/L	1	05/01/2020 18:34	164745
Silver	NELAP	0.0070		**< 0.0070**	mg/L	1	05/05/2020 16:18	164825
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/04/2020 9:42	164747
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Acenaphthylene	NELAP	0.000100	B	**ND**	mg/L	1	05/06/2020 12:30	164814
Anthracene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 12:30	164814
Benzo(a)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Benzo(a)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Benzo(b)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Benzo(g,h,i)perylene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 12:30	164814
Benzo(k)fluoranthene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Chrysene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Dibenzo(a,h)anthracene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Fluoranthene	NELAP	0.000300		**ND**	mg/L	1	05/06/2020 12:30	164814
Fluorene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 12:30	164814
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		**ND**	mg/L	1	05/06/2020 12:30	164814
Naphthalene	NELAP	0.000400		**0.00168**	mg/L	1	05/06/2020 12:30	164814
Phenanthrene	NELAP	0.000600		**ND**	mg/L	1	05/06/2020 12:30	164814
Pyrene	NELAP	0.000200		**ND**	mg/L	1	05/06/2020 12:30	164814
Surr: 2-Fluorobiphenyl	*	21.4-142		**87.6**	%REC	1	05/06/2020 12:30	164814
Surr: Nitrobenzene-d5	*	15-163		**90.6**	%REC	1	05/06/2020 12:30	164814
Surr: p-Terphenyl-d14	*	10-173		**100.8**	%REC	1	05/06/2020 12:30	164814

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

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.5		**ND**	µg/L	1	05/01/2020 9:16	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 9:16	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 9:16	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 9:16	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**101.9**	%REC	1	05/01/2020 9:16	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**103.1**	%REC	1	05/01/2020 9:16	164767
Surr: Dibromofluoromethane	*	87.4-111		**100.1**	%REC	1	05/01/2020 9:16	164767
Surr: Toluene-d8	*	86.1-110		**97.3**	%REC	1	05/01/2020 9:16	164767

Client: ERM
Work Order: 20041763
Client Project: Champaign GW
Report Date: 07-May-2020
Lab ID: 20041763-033
Client Sample ID: TB-01-WQ-202004
Matrix: TRIP BLANK
Collection Date: 04/30/2020 15:16

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	05/01/2020 9:42	164767
Ethylbenzene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 9:42	164767
Toluene	NELAP	2.0		**ND**	µg/L	1	05/01/2020 9:42	164767
Xylenes, Total	NELAP	4.0		**ND**	µg/L	1	05/01/2020 9:42	164767
Surr: 1,2-Dichloroethane-d4	*	80.9-113		**101.4**	%REC	1	05/01/2020 9:42	164767
Surr: 4-Bromofluorobenzene	*	88.3-109		**101.0**	%REC	1	05/01/2020 9:42	164767
Surr: Dibromofluoromethane	*	87.4-111		**100.5**	%REC	1	05/01/2020 9:42	164767
Surr: Toluene-d8	*	86.1-110		**102.2**	%REC	1	05/01/2020 9:42	164767

Client: ERM
Client Project: Champaign GW

Work Order: 20041763
Report Date: 07-May-2020

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
20041763-001	UMW-102-WG-20200427	Groundwater	4	04/27/2020 16:00
20041763-002	UMW-105-WG-20200429	Groundwater	4	04/29/2020 12:30
20041763-003	UMW-106R-WG-20200428	Groundwater	4	04/28/2020 16:15
20041763-004	UMW-107R-WG-20200428	Groundwater	4	04/28/2020 13:15
20041763-005	UMW-108-WG-20200428	Groundwater	4	04/28/2020 11:45
20041763-006	UMW-109-WG-20200428	Groundwater	4	04/28/2020 10:20
20041763-007	UMW-111A-WG-20200428	Groundwater	4	04/28/2020 10:15
20041763-008	UMW-116-WG-20200428	Groundwater	4	04/28/2020 13:30
20041763-009	UMW-117-WG-20200428	Groundwater	4	04/28/2020 15:15
20041763-010	UMW-118-WG-20200428	Groundwater	4	04/28/2020 11:35
20041763-011	UMW-119-WG-20200428	Groundwater	4	04/28/2020 8:30
20041763-012	UMW-120-WG-20200427	Groundwater	4	04/27/2020 17:00
20041763-013	UMW-121-WG-20200429	Groundwater	4	04/29/2020 13:30
20041763-014	UMW-122-WG-20200429	Groundwater	4	04/29/2020 8:45
20041763-015	UMW-123-WG-20200428	Groundwater	4	04/28/2020 17:30
20041763-016	UMW-124-WG-20200429	Groundwater	4	04/29/2020 10:15
20041763-017	UMW-125-WG-20200430	Groundwater	4	04/30/2020 8:10
20041763-018	UMW-126-WG-20200429	Groundwater	4	04/29/2020 14:05
20041763-019	UMW-127-WG-20200429	Groundwater	4	04/29/2020 15:40
20041763-020	UMW-300-WG-20200428	Groundwater	4	04/28/2020 9:00
20041763-021	UMW-301R-WG-20200429	Groundwater	4	04/29/2020 17:50
20041763-022	UMW-302-WG-20200429	Groundwater	4	04/29/2020 14:30
20041763-023	UMW-303-WG-20200428	Groundwater	4	04/28/2020 14:30
20041763-024	UMW-304R-WG-20200430	Groundwater	4	04/30/2020 9:20
20041763-025	UMW-305-WG-20200429	Groundwater	4	04/29/2020 10:45
20041763-026	UMW-306-WG-20200429	Groundwater	4	04/29/2020 8:45
20041763-027	UMW-307-WG-20200428	Groundwater	4	04/28/2020 16:55
20041763-028	UMW-308-WG-20200429	Groundwater	4	04/29/2020 17:00
20041763-029	DUP 001-WG-20200429	Groundwater	4	04/29/2020 0:00
20041763-030	DUP 002-WG-20200429	Groundwater	4	04/29/2020 0:00
20041763-031	DUP 003-WG-20200429	Groundwater	4	04/29/2020 0:00
20041763-032	EB-01-WQ-20200428	Groundwater	4	04/28/2020 14:40
20041763-033	TB-01-WQ-202004	Trip Blank	1	04/30/2020 15:16

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
20041763-001A	UMW-102-WG-20200427	04/27/2020 16:00	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 13:34	05/03/2020 19:42
20041763-001B	UMW-102-WG-20200427	04/27/2020 16:00	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 15:24
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:33
20041763-001C	UMW-102-WG-20200427	04/27/2020 16:00	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 15:50
20041763-001D	UMW-102-WG-20200427	04/27/2020 16:00	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 19:51
20041763-002A	UMW-105-WG-20200429	04/29/2020 12:30	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 13:34	05/03/2020 20:22
20041763-002B	UMW-105-WG-20200429	04/29/2020 12:30	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 15:27
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:36
20041763-002C	UMW-105-WG-20200429	04/29/2020 12:30	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 13:27
20041763-002D	UMW-105-WG-20200429	04/29/2020 12:30	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 20:18
20041763-003A	UMW-106R-WG-20200428	04/28/2020 16:15	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 14:24	05/03/2020 21:03
20041763-003B	UMW-106R-WG-20200428	04/28/2020 16:15	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 15:42
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:43
20041763-003C	UMW-106R-WG-20200428	04/28/2020 16:15	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 13:31
20041763-003D	UMW-106R-WG-20200428	04/28/2020 16:15	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 20:45
20041763-004A	UMW-107R-WG-20200428	04/28/2020 13:15	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 14:24	05/03/2020 21:45
20041763-004B	UMW-107R-WG-20200428	04/28/2020 13:15	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 15:46
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:45
20041763-004C	UMW-107R-WG-20200428	04/28/2020 13:15	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 17:08
20041763-004D	UMW-107R-WG-20200428	04/28/2020 13:15	04/30/2020 15:16		

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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				04/30/2020 21:12
20041763-005A	UMW-108-WG-20200428	04/28/2020 11:45	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 14:24	05/03/2020 22:25
20041763-005B	UMW-108-WG-20200428	04/28/2020 11:45	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 15:49
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:48
20041763-005C	UMW-108-WG-20200428	04/28/2020 11:45	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 13:44
20041763-005D	UMW-108-WG-20200428	04/28/2020 11:45	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 21:39
20041763-006A	UMW-109-WG-20200428	04/28/2020 10:20	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 14:24	05/03/2020 23:06
20041763-006B	UMW-109-WG-20200428	04/28/2020 10:20	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 15:53
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:50
20041763-006C	UMW-109-WG-20200428	04/28/2020 10:20	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 11:43
20041763-006D	UMW-109-WG-20200428	04/28/2020 10:20	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 22:05
20041763-007A	UMW-111A-WG-20200428	04/28/2020 10:15	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 14:24	05/03/2020 23:48
20041763-007B	UMW-111A-WG-20200428	04/28/2020 10:15	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 15:57
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:52
20041763-007C	UMW-111A-WG-20200428	04/28/2020 10:15	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 13:49
20041763-007D	UMW-111A-WG-20200428	04/28/2020 10:15	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 22:32
20041763-008A	UMW-116-WG-20200428	04/28/2020 13:30	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 14:24	05/04/2020 0:30
20041763-008B	UMW-116-WG-20200428	04/28/2020 13:30	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:00
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:54
20041763-008C	UMW-116-WG-20200428	04/28/2020 13:30	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:15

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
20041763-008D	UMW-116-WG-20200428	04/28/2020 13:30	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 22:58
20041763-009A	UMW-117-WG-20200428	04/28/2020 15:15	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 16:40	05/04/2020 9:40
20041763-009B	UMW-117-WG-20200428	04/28/2020 15:15	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:11
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 8:57
20041763-009C	UMW-117-WG-20200428	04/28/2020 15:15	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:19
20041763-009D	UMW-117-WG-20200428	04/28/2020 15:15	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 23:26
20041763-010A	UMW-118-WG-20200428	04/28/2020 11:35	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 16:40	05/04/2020 10:21
20041763-010B	UMW-118-WG-20200428	04/28/2020 11:35	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:15
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:04
20041763-010C	UMW-118-WG-20200428	04/28/2020 11:35	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:23
20041763-010D	UMW-118-WG-20200428	04/28/2020 11:35	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				04/30/2020 23:53
20041763-011A	UMW-119-WG-20200428	04/28/2020 8:30	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 16:40	05/04/2020 11:01
20041763-011B	UMW-119-WG-20200428	04/28/2020 8:30	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:30
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:11
20041763-011C	UMW-119-WG-20200428	04/28/2020 8:30	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:32
20041763-011D	UMW-119-WG-20200428	04/28/2020 8:30	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 0:19
20041763-012A	UMW-120-WG-20200427	04/27/2020 17:00	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 16:40	05/04/2020 11:42
20041763-012B	UMW-120-WG-20200427	04/27/2020 17:00	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:33
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:13
20041763-012C	UMW-120-WG-20200427	04/27/2020 17:00	04/30/2020 15:16		

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:36
20041763-012D	UMW-120-WG-20200427	04/27/2020 17:00	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 0:46
20041763-013A	UMW-121-WG-20200429	04/29/2020 13:30	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 16:40	05/04/2020 12:22
20041763-013B	UMW-121-WG-20200429	04/29/2020 13:30	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:37
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:16
20041763-013C	UMW-121-WG-20200429	04/29/2020 13:30	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 17:12
20041763-013D	UMW-121-WG-20200429	04/29/2020 13:30	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 1:14
20041763-014A	UMW-122-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 16:40	05/04/2020 13:03
20041763-014B	UMW-122-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:41
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:18
20041763-014C	UMW-122-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:45
20041763-014D	UMW-122-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 1:41
20041763-015A	UMW-123-WG-20200428	04/28/2020 17:30	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 17:14	05/04/2020 13:43
20041763-015B	UMW-123-WG-20200428	04/28/2020 17:30	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:44
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:20
20041763-015C	UMW-123-WG-20200428	04/28/2020 17:30	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:54
20041763-015D	UMW-123-WG-20200428	04/28/2020 17:30	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 2:08
20041763-016A	UMW-124-WG-20200429	04/29/2020 10:15	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 17:14	05/04/2020 14:23
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 17:14	05/07/2020 10:16
20041763-016B	UMW-124-WG-20200429	04/29/2020 10:15	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:48

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:22
20041763-016C	UMW-124-WG-20200429	04/29/2020 10:15	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 14:58
20041763-016D	UMW-124-WG-20200429	04/29/2020 10:15	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 2:36
20041763-017A	UMW-125-WG-20200430	04/30/2020 8:10	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 17:14	05/04/2020 15:04
20041763-017B	UMW-125-WG-20200430	04/30/2020 8:10	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:52
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:10
20041763-017C	UMW-125-WG-20200430	04/30/2020 8:10	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 15:02
20041763-017D	UMW-125-WG-20200430	04/30/2020 8:10	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 3:02
20041763-018A	UMW-126-WG-20200429	04/29/2020 14:05	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 17:14	05/04/2020 15:44
20041763-018B	UMW-126-WG-20200429	04/29/2020 14:05	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:55
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:13
20041763-018C	UMW-126-WG-20200429	04/29/2020 14:05	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 16:12
20041763-018D	UMW-126-WG-20200429	04/29/2020 14:05	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 3:29
20041763-019A	UMW-127-WG-20200429	04/29/2020 15:40	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/01/2020 17:14	05/04/2020 16:25
20041763-019B	UMW-127-WG-20200429	04/29/2020 15:40	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 17:36	05/01/2020 16:59
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:16
20041763-019C	UMW-127-WG-20200429	04/29/2020 15:40	04/30/2020 15:16		
	SW-846 9012A (Total)			05/01/2020 17:23	05/04/2020 12:13
20041763-019D	UMW-127-WG-20200429	04/29/2020 15:40	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 3:57
20041763-020A	UMW-300-WG-20200428	04/28/2020 9:00	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 12:06	05/05/2020 19:46
20041763-020B	UMW-300-WG-20200428	04/28/2020 9:00	04/30/2020 15:16		

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:25
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:08
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:25
20041763-020C	UMW-300-WG-20200428	04/28/2020 9:00	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 11:07
20041763-020D	UMW-300-WG-20200428	04/28/2020 9:00	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 10:08
20041763-021A	UMW-301R-WG-20200429	04/29/2020 17:50	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 12:06	05/05/2020 20:27
20041763-021B	UMW-301R-WG-20200429	04/29/2020 17:50	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:29
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:12
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:18
20041763-021C	UMW-301R-WG-20200429	04/29/2020 17:50	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 11:11
20041763-021D	UMW-301R-WG-20200429	04/29/2020 17:50	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 10:34
20041763-022A	UMW-302-WG-20200429	04/29/2020 14:30	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 12:06	05/05/2020 21:09
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 12:06	05/07/2020 12:17
20041763-022B	UMW-302-WG-20200429	04/29/2020 14:30	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:32
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:15
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:20
20041763-022C	UMW-302-WG-20200429	04/29/2020 14:30	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 13:30
20041763-022D	UMW-302-WG-20200429	04/29/2020 14:30	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 11:00
20041763-023A	UMW-303-WG-20200428	04/28/2020 14:30	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 13:06	05/05/2020 21:50
20041763-023B	UMW-303-WG-20200428	04/28/2020 14:30	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:36
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:19
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:27
20041763-023C	UMW-303-WG-20200428	04/28/2020 14:30	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 11:59

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
20041763-023D	UMW-303-WG-20200428	04/28/2020 14:30	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 11:26
20041763-024A	UMW-304R-WG-20200430	04/30/2020 9:20	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 13:06	05/05/2020 22:31
20041763-024B	UMW-304R-WG-20200430	04/30/2020 9:20	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:40
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:23
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:22
20041763-024C	UMW-304R-WG-20200430	04/30/2020 9:20	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 12:03
20041763-024D	UMW-304R-WG-20200430	04/30/2020 9:20	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 11:51
20041763-025A	UMW-305-WG-20200429	04/29/2020 10:45	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 13:06	05/05/2020 23:13
20041763-025B	UMW-305-WG-20200429	04/29/2020 10:45	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:43
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:26
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:29
20041763-025C	UMW-305-WG-20200429	04/29/2020 10:45	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 12:08
20041763-025D	UMW-305-WG-20200429	04/29/2020 10:45	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 12:17
20041763-026A	UMW-306-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 13:06	05/05/2020 23:54
20041763-026B	UMW-306-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 18:05
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:30
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:32
20041763-026C	UMW-306-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 9012A (Total)			05/05/2020 16:19	05/06/2020 8:36
20041763-026D	UMW-306-WG-20200429	04/29/2020 8:45	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 12:43
20041763-027A	UMW-307-WG-20200428	04/28/2020 16:55	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 14:03	05/06/2020 1:56
20041763-027B	UMW-307-WG-20200428	04/28/2020 16:55	04/30/2020 15:16		

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 18:16
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:56
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:29
20041763-027C	UMW-307-WG-20200428	04/28/2020 16:55	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 13:12
20041763-027D	UMW-307-WG-20200428	04/28/2020 16:55	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 14:00
20041763-028A	UMW-308-WG-20200429	04/29/2020 17:00	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 14:03	05/06/2020 4:00
20041763-028B	UMW-308-WG-20200429	04/29/2020 17:00	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:47
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 15:41
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:39
20041763-028C	UMW-308-WG-20200429	04/29/2020 17:00	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 12:16
20041763-028D	UMW-308-WG-20200429	04/29/2020 17:00	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 15:17
20041763-029A	DUP 001-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 14:03	05/06/2020 18:31
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 14:03	05/07/2020 11:37
20041763-029B	DUP 001-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 17:51
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 16:07
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:41
20041763-029C	DUP 001-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 12:21
20041763-029D	DUP 001-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 15:43
20041763-030A	DUP 002-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 14:03	05/07/2020 10:57
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 14:03	05/07/2020 13:38
20041763-030B	DUP 002-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 18:27
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 16:11
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:44
20041763-030C	DUP 002-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 12:25
20041763-030D	DUP 002-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 16:09
20041763-031A	DUP 003-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 16:24	05/06/2020 11:50
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 16:24	05/07/2020 12:57
20041763-031B	DUP 003-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 18:31
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 16:14
	SW-846 7470A (Total)			04/30/2020 22:10	05/01/2020 10:51
20041763-031C	DUP 003-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 13:34
20041763-031D	DUP 003-WG-20200429	04/29/2020 0:00	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 16:35
20041763-032A	EB-01-WQ-20200428	04/28/2020 14:40	04/30/2020 15:16		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			05/04/2020 16:24	05/06/2020 12:30
20041763-032B	EB-01-WQ-20200428	04/28/2020 14:40	04/30/2020 15:16		
	SW-846 3005A, 6010B, Metals by ICP (Total)			04/30/2020 19:55	05/01/2020 18:34
	SW-846 3005A, 6010B, Metals by ICP (Total)			05/04/2020 14:58	05/05/2020 16:18
	SW-846 7470A (Total)			04/30/2020 21:18	05/04/2020 9:42
20041763-032C	EB-01-WQ-20200428	04/28/2020 14:40	04/30/2020 15:16		
	SW-846 9012A (Total)			05/04/2020 16:35	05/05/2020 12:55
20041763-032D	EB-01-WQ-20200428	04/28/2020 14:40	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 9:16
20041763-033A	TB-01-WQ-202004	04/30/2020 15:16	04/30/2020 15:16		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				05/01/2020 9:42

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

SW-846 9012A (TOTAL)

Batch 164773 **SampType:** MBLK Units **mg/L**
SampID: MBLK 200501 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**< 0.005**	0.0030	0	0	-100	100	05/04/2020

Batch 164773 **SampType:** LCS Units **mg/L**
SampID: LCS 200501 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.024**	0.0250	0	97.8	90	110	05/04/2020

Batch 164773 **SampType:** MS Units **mg/L**
SampID: 20041763-006CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.041**	0.0250	0.01612	97.9	75	125	05/04/2020

Batch 164773 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 20041763-006CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005		**0.041**	0.0250	0.01612	100.7	0.04059	1.75	05/04/2020

Batch 164774 **SampType:** MBLK Units **mg/L**
SampID: MBLK 200501 TCN2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**< 0.005**	0.0030	0	0	-100	100	05/04/2020

Batch 164774 **SampType:** LCS Units **mg/L**
SampID: LCS 200501 TCN2

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.027**	0.0250	0	106.6	85	115	05/04/2020

Batch 164774 **SampType:** MS Units **mg/L**
SampID: 20041763-019CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.025**	0.0250	0	98.3	75	125	05/04/2020

Batch 164774 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 20041763-019CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005		**0.025**	0.0250	0	99.1	0.02456	0.89	05/04/2020

Batch 164826 **SampType:** MBLK Units **mg/L**
SampID: MBLK 200504 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**< 0.005**	0.0030	0	0	-100	100	05/05/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

SW-846 9012A (TOTAL)

Batch 164826 **SampType:** LCS Units **mg/L**

SampID: LCS 200504 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.024**	0.0250	0	97.3	90	110	05/05/2020

Batch 164826 **SampType:** MS Units **mg/L**

SampID: 20041763-027CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.010		**0.073**	0.0250	0.04988	93.7	75	125	05/05/2020

Batch 164826 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 20041763-027CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.010		**0.078**	0.0250	0.04988	112.8	0.07329	6.32	05/05/2020

Batch 164867 **SampType:** MBLK Units **mg/L**

SampID: MBLK 200505 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**< 0.005**	0.0030	0	0	-100	100	05/06/2020

Batch 164867 **SampType:** LCS Units **mg/L**

SampID: LCS 200505 TCN1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.023**	0.0250	0	91.6	90	110	05/06/2020

Batch 164867 **SampType:** MS Units **mg/L**

SampID: 20041763-026CMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide	0.005		**0.038**	0.0250	0.01474	92.7	75	125	05/06/2020

Batch 164867 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 20041763-026CMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide	0.005		**0.037**	0.0250	0.01474	89.9	0.03792	1.88	05/06/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164740 **SampType:** MBLK Units **mg/L**

SampID: MBLK-164740

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**< 0.0250**	0.0087	0	0	-100	100	05/01/2020
Barium	0.0025		**< 0.0025**	0.0007	0	0	-100	100	05/01/2020
Cadmium	0.0020		**< 0.0020**	0.0005	0	0	-100	100	05/01/2020
Chromium	0.0050		**< 0.0050**	0.0028	0	0	-100	100	05/01/2020
Lead	0.0150		**< 0.0150**	0.0040	0	0	-100	100	05/01/2020
Selenium	0.0400		**< 0.0400**	0.0170	0	0	-100	100	05/01/2020
Silver	0.0070		**< 0.0070**	0.0027	0	0	-100	100	05/01/2020

Batch 164740 **SampType:** LCS Units **mg/L**

SampID: LCS-164740

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.541**	0.5000	0	108.2	85	115	05/01/2020
Barium	0.0025		**2.06**	2.000	0	103.2	85	115	05/01/2020
Cadmium	0.0020		**0.0516**	0.0500	0	103.2	85	115	05/01/2020
Chromium	0.0050		**0.201**	0.2000	0	100.4	85	115	05/01/2020
Lead	0.0150		**0.518**	0.5000	0	103.6	85	115	05/01/2020
Selenium	0.0400		**0.513**	0.5000	0	102.7	85	115	05/01/2020
Silver	0.0070		**0.0432**	0.0500	0	86.4	85	115	05/01/2020

Batch 164740 **SampType:** MS Units **mg/L**

SampID: 20041763-008BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.548**	0.5000	0	109.6	75	125	05/01/2020
Barium	0.0025		**2.14**	2.000	0.07990	103.2	75	125	05/01/2020
Cadmium	0.0020		**0.0510**	0.0500	0	102.0	75	125	05/01/2020
Chromium	0.0050		**0.201**	0.2000	0	100.7	75	125	05/01/2020
Lead	0.0150		**0.512**	0.5000	0	102.4	75	125	05/01/2020
Selenium	0.0400		**0.517**	0.5000	0	103.4	75	125	05/01/2020
Silver	0.0070		**0.0434**	0.0500	0	86.8	75	125	05/01/2020

Batch 164740 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 20041763-008BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.550**	0.5000	0	109.9	0.5480	0.31	05/01/2020
Barium	0.0025		**2.15**	2.000	0.07990	103.6	2.143	0.42	05/01/2020
Cadmium	0.0020		**0.0515**	0.0500	0	103.0	0.05100	0.98	05/01/2020
Chromium	0.0050		**0.201**	0.2000	0	100.5	0.2013	0.20	05/01/2020
Lead	0.0150		**0.517**	0.5000	0	103.4	0.5122	0.93	05/01/2020
Selenium	0.0400		**0.518**	0.5000	0	103.7	0.5171	0.23	05/01/2020
Silver	0.0070		**0.0440**	0.0500	0	88.0	0.04340	1.37	05/01/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164745 **SampType:** MBLK Units **mg/L**

SampID: MBLK-164745

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**< 0.0250**	0.0087	0	0	-100	100	05/01/2020
Barium	0.0025		**< 0.0025**	0.0007	0	0	-100	100	05/01/2020
Cadmium	0.0020		**< 0.0020**	0.0005	0	0	-100	100	05/01/2020
Chromium	0.0050		**< 0.0050**	0.0028	0	0	-100	100	05/01/2020
Lead	0.0150		**< 0.0150**	0.0014	0	0	-100	100	05/01/2020
Selenium	0.0400		**< 0.0400**	0.0170	0	0	-100	100	05/01/2020
Silver	0.0070		**< 0.0070**	0.0027	0	0	-100	100	05/01/2020

Batch 164745 **SampType:** LCS Units **mg/L**

SampID: LCS-164745

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.564**	0.5000	0	112.7	85	115	05/01/2020
Barium	0.0025		**2.14**	2.000	0	106.8	85	115	05/01/2020
Cadmium	0.0020		**0.0534**	0.0500	0	106.8	85	115	05/01/2020
Chromium	0.0050		**0.207**	0.2000	0	103.5	85	115	05/01/2020
Lead	0.0150		**0.534**	0.5000	0	106.9	85	115	05/01/2020
Selenium	0.0400		**0.530**	0.5000	0	106.1	85	115	05/01/2020

Batch 164745 **SampType:** MS Units **mg/L**

SampID: 20041763-026BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.559**	0.5000	0	111.8	75	125	05/01/2020
Barium	0.0025		**2.24**	2.000	0.1152	106.4	75	125	05/01/2020
Cadmium	0.0020		**0.0523**	0.0500	0	104.6	75	125	05/01/2020
Chromium	0.0050		**0.206**	0.2000	0	102.8	75	125	05/01/2020
Lead	0.0150		**0.525**	0.5000	0	105.0	75	125	05/01/2020
Selenium	0.0400		**0.520**	0.5000	0	104.1	75	125	05/01/2020

Batch 164745 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 20041763-026BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.561**	0.5000	0	112.3	0.5590	0.43	05/01/2020
Barium	0.0025		**2.23**	2.000	0.1152	105.9	2.243	0.40	05/01/2020
Cadmium	0.0020		**0.0521**	0.0500	0	104.2	0.05230	0.38	05/01/2020
Chromium	0.0050		**0.205**	0.2000	0	102.4	0.2057	0.39	05/01/2020
Lead	0.0150		**0.524**	0.5000	0	104.8	0.5248	0.15	05/01/2020
Selenium	0.0400		**0.522**	0.5000	0	104.4	0.5203	0.29	05/01/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164745 **SampType:** MS Units **mg/L**

SampID: 20041763-027BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.570**	0.5000	0	114.1	75	125	05/01/2020
Barium	0.0025		**2.28**	2.000	0.1174	108.2	75	125	05/01/2020
Cadmium	0.0020		**0.0533**	0.0500	0	106.6	75	125	05/01/2020
Chromium	0.0050		**0.210**	0.2000	0	105.0	75	125	05/01/2020
Lead	0.0150		**0.535**	0.5000	0	107.0	75	125	05/01/2020
Selenium	0.0400		**0.529**	0.5000	0	105.8	75	125	05/01/2020

Batch 164745 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 20041763-027BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic	0.0250		**0.549**	0.5000	0	109.8	0.5704	3.84	05/01/2020
Barium	0.0025		**2.21**	2.000	0.1174	104.7	2.282	3.16	05/01/2020
Cadmium	0.0020		**0.0515**	0.0500	0	103.0	0.05330	3.44	05/01/2020
Chromium	0.0050		**0.202**	0.2000	0	100.8	0.2100	4.13	05/01/2020
Lead	0.0150		**0.516**	0.5000	0	103.2	0.5348	3.60	05/01/2020
Selenium	0.0400		**0.514**	0.5000	0	102.9	0.5288	2.76	05/01/2020

Batch 164825 **SampType:** MBLK Units **mg/L**

SampID: MBLK-164825

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**< 0.0250**	0.0087	0	0	-100	100	05/05/2020
Barium	0.0025		**< 0.0025**	0.0007	0	0	-100	100	05/05/2020
Cadmium	0.0020		**< 0.0020**	0.0005	0	0	-100	100	05/05/2020
Chromium	0.0050		**< 0.0050**	0.0028	0	0	-100	100	05/05/2020
Lead	0.0150		**< 0.0150**	0.0040	0	0	-100	100	05/05/2020
Selenium	0.0400		**< 0.0400**	0.0170	0	0	-100	100	05/05/2020
Silver	0.0070		**< 0.0070**	0.0027	0	0	-100	100	05/05/2020

Batch 164825 **SampType:** LCS Units **mg/L**

SampID: LCS-164825

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic	0.0250		**0.527**	0.5000	0	105.4	85	115	05/05/2020
Barium	0.0025		**2.04**	2.000	0	102.2	85	115	05/05/2020
Cadmium	0.0020		**0.0511**	0.0500	0	102.2	85	115	05/05/2020
Chromium	0.0050		**0.203**	0.2000	0	101.4	85	115	05/05/2020
Lead	0.0150		**0.516**	0.5000	0	103.3	85	115	05/05/2020
Selenium	0.0400		**0.509**	0.5000	0	101.7	85	115	05/05/2020
Silver	0.0070		**0.0504**	0.0500	0	100.8	85	115	05/05/2020

Batch 164825 **SampType:** MS Units **mg/L**

SampID: 20041763-026BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Silver	0.0070		**0.0507**	0.0500	0	101.4	75	125	05/05/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164825 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 20041763-026BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Silver	0.0070		**0.0515**	0.0500	0	103.0	0.05070	1.57	05/05/2020

Batch 164825 **SampType:** MS Units **mg/L**

SampID: 20041763-027BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Silver	0.0070		**0.0510**	0.0500	0	102.0	75	125	05/05/2020

Batch 164825 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 20041763-027BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Silver	0.0070		**0.0512**	0.0500	0	102.4	0.05100	0.39	05/05/2020

SW-846 7470A (TOTAL)

Batch 164747 **SampType:** MBLK Units **mg/L**

SampID: MBLK-164747

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**< 0.00020**	0.0001	0	0	-100	100	05/04/2020

Batch 164747 **SampType:** LCS Units **mg/L**

SampID: LCS-164747

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00478**	0.0050	0	95.6	85	115	05/04/2020

Batch 164747 **SampType:** MS Units **mg/L**

SampID: 20041763-009BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00484**	0.0050	0	96.8	75	125	05/04/2020

Batch 164747 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 20041763-009BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00487**	0.0050	0	97.5	0.004840	0.72	05/04/2020

Batch 164747 **SampType:** MS Units **mg/L**

SampID: 20041763-027BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00475**	0.0050	0	94.9	75	125	05/04/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

SW-846 7470A (TOTAL)

Batch 164747 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 20041763-027BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00493**	0.0050	0	98.6	0.004747	3.76	05/04/2020

Batch 164748 **SampType:** MBLK Units **mg/L**

SampID: MBLK-164748

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**< 0.00020**	0.0001	0	0	-100	100	05/01/2020

Batch 164748 **SampType:** LCS Units **mg/L**

SampID: LCS-164748

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00492**	0.0050	0	98.4	85	115	05/01/2020

Batch 164748 **SampType:** MS Units **mg/L**

SampID: 20041763-026BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00468**	0.0050	0	93.7	75	125	05/01/2020

Batch 164748 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 20041763-026BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00459**	0.0050	0	91.8	0.004685	2.02	05/01/2020

Batch 164748 **SampType:** MS Units **mg/L**

SampID: 20041763-030BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury	0.00020		**0.00467**	0.0050	0	93.4	75	125	05/01/2020

Batch 164748 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 20041763-030BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury	0.00020		**0.00475**	0.0050	0	94.9	0.004672	1.55	05/01/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164770 **SampType:** MBLK Units **mg/L**

SampID: MBLK-164770

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						05/03/2020
Acenaphthylene	0.000100		**ND**						05/03/2020
Anthracene	0.000300		**ND**						05/03/2020
Benzo(a)anthracene	0.000100		**ND**						05/03/2020
Benzo(a)pyrene	0.000100		**ND**						05/03/2020
Benzo(b)fluoranthene	0.000100		**ND**						05/03/2020
Benzo(g,h,i)perylene	0.000200		**ND**						05/03/2020
Benzo(k)fluoranthene	0.000100		**ND**						05/03/2020
Chrysene	0.000100		**ND**						05/03/2020
Dibenzo(a,h)anthracene	0.000100		**ND**						05/03/2020
Fluoranthene	0.000300		**ND**						05/03/2020
Fluorene	0.000200		**ND**						05/03/2020
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						05/03/2020
Naphthalene	0.000400		**ND**						05/03/2020
Phenanthrene	0.000600		**ND**						05/03/2020
Pyrene	0.000200		**ND**						05/03/2020
Surr: 2-Fluorobiphenyl			**0.00102**	0.0010		102.3	51.8	120	05/03/2020
Surr: Nitrobenzene-d5			**0.00102**	0.0010		102.2	48.3	123	05/03/2020
Surr: p-Terphenyl-d14			**0.00114**	0.0010		114.0	67.1	164	05/03/2020

Batch 164770 **SampType:** LCS Units **mg/L**

SampID: LCS-164770

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00243**	0.0020	0	121.5	47.2	128	05/03/2020
Acenaphthylene	0.000100		**0.00244**	0.0020	0	122.2	56	129	05/03/2020
Anthracene	0.000300		**0.00240**	0.0020	0	120.1	53.6	131	05/03/2020
Benzo(a)anthracene	0.000100		**0.00245**	0.0020	0	122.7	52.4	138	05/03/2020
Benzo(a)pyrene	0.000100		**0.00279**	0.0020	0	139.5	76.3	154	05/03/2020
Benzo(b)fluoranthene	0.000100		**0.00288**	0.0020	0	143.8	61.3	170	05/03/2020
Benzo(g,h,i)perylene	0.000200		**0.00265**	0.0020	0	132.6	65.3	138	05/03/2020
Benzo(k)fluoranthene	0.000100	S	**0.00253**	0.0020	0	126.7	61.9	126	05/03/2020
Chrysene	0.000100	S	**0.00258**	0.0020	0	129.2	59.6	127	05/03/2020
Dibenzo(a,h)anthracene	0.000100		**0.00289**	0.0020	0	144.7	68.4	166	05/03/2020
Fluoranthene	0.000300		**0.00241**	0.0020	0	120.7	66.7	131	05/03/2020
Fluorene	0.000200		**0.00258**	0.0020	0	128.9	54.6	132	05/03/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00276**	0.0020	0	137.9	63.2	154	05/03/2020
Naphthalene	0.000400		**0.00230**	0.0020	0	114.9	41.2	124	05/03/2020
Phenanthrene	0.000600		**0.00247**	0.0020	0	123.7	54	143	05/03/2020
Pyrene	0.000200		**0.00236**	0.0020	0	118.1	67.3	128	05/03/2020
Surr: 2-Fluorobiphenyl			**0.000924**	0.0010		92.4	51.8	120	05/03/2020
Surr: Nitrobenzene-d5			**0.00104**	0.0010		104.5	48.3	123	05/03/2020
Surr: p-Terphenyl-d14			**0.00101**	0.0010		101.0	67.1	164	05/03/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164770 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-164770

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00244**	0.0020	0	122.2	0.002430	0.60	05/03/2020
Acenaphthylene	0.000100		**0.00249**	0.0020	0	124.6	0.002444	1.96	05/03/2020
Anthracene	0.000300		**0.00254**	0.0020	0	126.9	0.002401	5.57	05/03/2020
Benzo(a)anthracene	0.000100		**0.00258**	0.0020	0	128.8	0.002453	4.85	05/03/2020
Benzo(a)pyrene	0.000100		**0.00284**	0.0020	0	141.9	0.002790	1.70	05/03/2020
Benzo(b)fluoranthene	0.000100		**0.00298**	0.0020	0	149.2	0.002875	3.71	05/03/2020
Benzo(g,h,i)perylene	0.000200		**0.00265**	0.0020	0	132.4	0.002653	0.20	05/03/2020
Benzo(k)fluoranthene	0.000100		**0.00246**	0.0020	0	123.2	0.002533	2.80	05/03/2020
Chrysene	0.000100	S	**0.00256**	0.0020	0	127.8	0.002585	1.09	05/03/2020
Dibenzo(a,h)anthracene	0.000100		**0.00295**	0.0020	0	147.4	0.002895	1.80	05/03/2020
Fluoranthene	0.000300		**0.00249**	0.0020	0	124.6	0.002413	3.24	05/03/2020
Fluorene	0.000200		**0.00257**	0.0020	0	128.5	0.002578	0.29	05/03/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00284**	0.0020	0	142.2	0.002757	3.07	05/03/2020
Naphthalene	0.000400		**0.00233**	0.0020	0	116.3	0.002299	1.16	05/03/2020
Phenanthrene	0.000600		**0.00256**	0.0020	0	128.0	0.002474	3.42	05/03/2020
Pyrene	0.000200		**0.00246**	0.0020	0	123.1	0.002362	4.14	05/03/2020
Surr: 2-Fluorobiphenyl			**0.000971**	0.0010		97.1			05/03/2020
Surr: Nitrobenzene-d5			**0.00108**	0.0010		108.2			05/03/2020
Surr: p-Terphenyl-d14			**0.00107**	0.0010		106.9			05/03/2020

Batch 164814 **SampType:** MBLK Units **mg/L**

SampID: MBLK-164814

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**ND**						05/05/2020
Acenaphthylene	0.000100		**ND**						05/05/2020
Anthracene	0.000300		**ND**						05/05/2020
Benzo(a)anthracene	0.000100		**ND**						05/05/2020
Benzo(a)pyrene	0.000100		**ND**						05/05/2020
Benzo(b)fluoranthene	0.000100		**ND**						05/05/2020
Benzo(g,h,i)perylene	0.000200		**ND**						05/05/2020
Benzo(k)fluoranthene	0.000100		**ND**						05/05/2020
Chrysene	0.000100		**ND**						05/05/2020
Dibenzo(a,h)anthracene	0.000100		**ND**						05/05/2020
Fluoranthene	0.000300		**ND**						05/05/2020
Fluorene	0.000200		**ND**						05/05/2020
Indeno(1,2,3-cd)pyrene	0.000100		**ND**						05/05/2020
Naphthalene	0.000400		**ND**						05/05/2020
Phenanthrene	0.000600		**ND**						05/05/2020
Pyrene	0.000200		**ND**						05/05/2020
Surr: 2-Fluorobiphenyl			**0.000892**	0.0010		89.2	51.8	120	05/05/2020
Surr: Nitrobenzene-d5			**0.000960**	0.0010		96.0	48.3	123	05/05/2020
Surr: p-Terphenyl-d14			**0.00108**	0.0010		108.4	67.1	164	05/05/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164814 **SampType:** LCS Units **mg/L**

SampID: LCS-164814

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00240**	0.0020	0	119.8	47.2	128	05/05/2020
Acenaphthylene	0.000100	B	**0.00243**	0.0020	0	121.5	56	129	05/05/2020
Anthracene	0.000300		**0.00243**	0.0020	0	121.6	53.6	131	05/05/2020
Benzo(a)anthracene	0.000100		**0.00243**	0.0020	0	121.3	52.4	138	05/05/2020
Benzo(a)pyrene	0.000100		**0.00267**	0.0020	0	133.6	76.3	154	05/05/2020
Benzo(b)fluoranthene	0.000100		**0.00283**	0.0020	0	141.5	61.3	170	05/05/2020
Benzo(g,h,i)perylene	0.000200		**0.00239**	0.0020	0	119.6	65.3	138	05/05/2020
Benzo(k)fluoranthene	0.000100		**0.00231**	0.0020	0	115.7	61.9	126	05/05/2020
Chrysene	0.000100		**0.00234**	0.0020	0	117.0	59.6	127	05/05/2020
Dibenzo(a,h)anthracene	0.000100		**0.00273**	0.0020	0	136.5	68.4	166	05/05/2020
Fluoranthene	0.000300		**0.00241**	0.0020	0	120.6	66.7	131	05/05/2020
Fluorene	0.000200		**0.00248**	0.0020	0	124.1	54.6	132	05/05/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00259**	0.0020	0	129.5	63.2	154	05/05/2020
Naphthalene	0.000400		**0.00228**	0.0020	0	114.0	41.2	124	05/05/2020
Phenanthrene	0.000600		**0.00270**	0.0020	0	135.1	54	143	05/05/2020
Pyrene	0.000200		**0.00241**	0.0020	0	120.4	67.3	128	05/05/2020
Surr: 2-Fluorobiphenyl			**0.00101**	0.0010		101.0	51.8	120	05/05/2020
Surr: Nitrobenzene-d5			**0.00102**	0.0010		102.3	48.3	123	05/05/2020
Surr: p-Terphenyl-d14			**0.00100**	0.0010		100.0	67.1	164	05/05/2020

Batch 164814 **SampType:** LCSD Units **mg/L** RPD Limit **40**

SampID: LCSD-164814

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00228**	0.0020	0	113.8	0.002397	5.14	05/05/2020
Acenaphthylene	0.000100	B	**0.00229**	0.0020	0	114.6	0.002430	5.84	05/05/2020
Anthracene	0.000300		**0.00238**	0.0020	0	119.0	0.002432	2.15	05/05/2020
Benzo(a)anthracene	0.000100		**0.00236**	0.0020	0	118.1	0.002425	2.63	05/05/2020
Benzo(a)pyrene	0.000100		**0.00260**	0.0020	0	129.8	0.002672	2.90	05/05/2020
Benzo(b)fluoranthene	0.000100		**0.00277**	0.0020	0	138.7	0.002830	1.96	05/05/2020
Benzo(g,h,i)perylene	0.000200		**0.00229**	0.0020	0	114.7	0.002391	4.18	05/05/2020
Benzo(k)fluoranthene	0.000100		**0.00227**	0.0020	0	113.4	0.002314	2.01	05/05/2020
Chrysene	0.000100		**0.00221**	0.0020	0	110.7	0.002340	5.56	05/05/2020
Dibenzo(a,h)anthracene	0.000100		**0.00265**	0.0020	0	132.3	0.002729	3.10	05/05/2020
Fluoranthene	0.000300		**0.00235**	0.0020	0	117.6	0.002411	2.44	05/05/2020
Fluorene	0.000200		**0.00241**	0.0020	0	120.3	0.002482	3.13	05/05/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00253**	0.0020	0	126.3	0.002590	2.47	05/05/2020
Naphthalene	0.000400		**0.00220**	0.0020	0	110.0	0.002279	3.49	05/05/2020
Phenanthrene	0.000600		**0.00264**	0.0020	0	132.1	0.002702	2.26	05/05/2020
Pyrene	0.000200		**0.00235**	0.0020	0	117.4	0.002407	2.50	05/05/2020
Surr: 2-Fluorobiphenyl			**0.000951**	0.0010		95.1			05/05/2020
Surr: Nitrobenzene-d5			**0.00100**	0.0010		100.1			05/05/2020
Surr: p-Terphenyl-d14			**0.000962**	0.0010		96.2			05/05/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164814 **SampType:** MS Units **mg/L**

SampID: 20041763-026AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00240**	0.0020	0.00009450	115.4	28.3	133	05/06/2020
Acenaphthylene	0.000100	B	**0.00248**	0.0020	0.00007340	120.5	5	176	05/06/2020
Anthracene	0.000300		**0.00244**	0.0020	0	121.9	34.6	131	05/06/2020
Benzo(a)anthracene	0.000100		**0.00253**	0.0020	0	126.6	40.3	132	05/06/2020
Benzo(a)pyrene	0.000100	S	**0.00265**	0.0020	0	132.7	40.8	132	05/06/2020
Benzo(b)fluoranthene	0.000100	S	**0.00288**	0.0020	0	143.9	41.9	132	05/06/2020
Benzo(g,h,i)perylene	0.000200		**0.00237**	0.0020	0	118.4	46	132	05/06/2020
Benzo(k)fluoranthene	0.000100		**0.00226**	0.0020	0	112.8	49.4	126	05/06/2020
Chrysene	0.000100		**0.00233**	0.0020	0	116.7	46.1	129	05/06/2020
Dibenzo(a,h)anthracene	0.000100		**0.00271**	0.0020	0	135.7	42.1	146	05/06/2020
Fluoranthene	0.000300		**0.00249**	0.0020	0	124.6	23.9	164	05/06/2020
Fluorene	0.000200		**0.00253**	0.0020	0.0001572	118.8	24.3	148	05/06/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00258**	0.0020	0	129.1	26.6	157	05/06/2020
Naphthalene	0.000400		**0.00241**	0.0020	0	120.4	24.2	132	05/06/2020
Phenanthrene	0.000600		**0.00281**	0.0020	0.0006080	110.1	36.6	139	05/06/2020
Pyrene	0.000200		**0.00247**	0.0020	0.0001834	114.6	14.6	169	05/06/2020
Surr: 2-Fluorobiphenyl			**0.00110**	0.0010		110.4	21.4	142	05/06/2020
Surr: Nitrobenzene-d5			**0.00103**	0.0010		103.4	15	163	05/06/2020
Surr: p-Terphenyl-d14			**0.00108**	0.0010		108.0	10	173	05/06/2020

Batch 164814 **SampType:** MSD Units **mg/L** RPD Limit **40**

SampID: 20041763-026AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00237**	0.0020	0.00009450	113.7	0.002402	1.43	05/06/2020
Acenaphthylene	0.000100	B	**0.00244**	0.0020	0.00007340	118.6	0.002483	1.55	05/06/2020
Anthracene	0.000300		**0.00235**	0.0020	0	117.3	0.002438	3.81	05/06/2020
Benzo(a)anthracene	0.000100		**0.00239**	0.0020	0	119.6	0.002533	5.71	05/06/2020
Benzo(a)pyrene	0.000100	S	**0.00265**	0.0020	0	132.5	0.002655	0.16	05/06/2020
Benzo(b)fluoranthene	0.000100	S	**0.00277**	0.0020	0	138.7	0.002878	3.69	05/06/2020
Benzo(g,h,i)perylene	0.000200		**0.00233**	0.0020	0	116.5	0.002368	1.58	05/06/2020
Benzo(k)fluoranthene	0.000100		**0.00224**	0.0020	0	111.9	0.002256	0.85	05/06/2020
Chrysene	0.000100		**0.00231**	0.0020	0	115.4	0.002334	1.12	05/06/2020
Dibenzo(a,h)anthracene	0.000100		**0.00270**	0.0020	0	135.0	0.002715	0.57	05/06/2020
Fluoranthene	0.000300		**0.00242**	0.0020	0	121.1	0.002492	2.83	05/06/2020
Fluorene	0.000200		**0.00252**	0.0020	0.0001572	118.0	0.002533	0.64	05/06/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00247**	0.0020	0	123.4	0.002581	4.48	05/06/2020
Naphthalene	0.000400		**0.00229**	0.0020	0	114.7	0.002408	4.85	05/06/2020
Phenanthrene	0.000600		**0.00280**	0.0020	0.0006080	109.4	0.002809	0.46	05/06/2020
Pyrene	0.000200		**0.00242**	0.0020	0.0001834	111.6	0.002474	2.42	05/06/2020
Surr: 2-Fluorobiphenyl			**0.00101**	0.0010		100.5			05/06/2020
Surr: Nitrobenzene-d5			**0.00104**	0.0010		103.6			05/06/2020
Surr: p-Terphenyl-d14			**0.000974**	0.0010		97.4			05/06/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164814 **SampType:** MS Units **mg/L**

SampID: 20041763-027AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		**0.00231**	0.0020	0.00008650	111.4	28.3	133	05/06/2020
Acenaphthylene	0.000100	B	**0.00243**	0.0020	0.0004902	96.9	5	176	05/06/2020
Anthracene	0.000300		**0.00237**	0.0020	0	118.4	34.6	131	05/06/2020
Benzo(a)anthracene	0.000100		**0.00230**	0.0020	0.0001176	108.9	40.3	132	05/06/2020
Benzo(a)pyrene	0.000100		**0.00255**	0.0020	0.0001921	117.7	40.8	132	05/06/2020
Benzo(b)fluoranthene	0.000100		**0.00265**	0.0020	0.0001720	123.8	41.9	132	05/06/2020
Benzo(g,h,i)perylene	0.000200		**0.00225**	0.0020	0.0001127	106.8	46	132	05/06/2020
Benzo(k)fluoranthene	0.000100		**0.00220**	0.0020	0	109.9	49.4	126	05/06/2020
Chrysene	0.000100		**0.00230**	0.0020	0.00008530	110.9	46.1	129	05/06/2020
Dibenzo(a,h)anthracene	0.000100		**0.00259**	0.0020	0	129.3	42.1	146	05/06/2020
Fluoranthene	0.000300		**0.00238**	0.0020	0	118.8	23.9	164	05/06/2020
Fluorene	0.000200		**0.00245**	0.0020	0.0001761	113.9	24.3	148	05/06/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00246**	0.0020	0.00008540	118.9	26.6	157	05/06/2020
Naphthalene	0.000400		**0.00231**	0.0020	0	115.3	24.2	132	05/06/2020
Phenanthrene	0.000600		**0.00267**	0.0020	0	133.5	36.6	139	05/06/2020
Pyrene	0.000200		**0.00237**	0.0020	0.0002106	108.1	14.6	169	05/06/2020
Surr: 2-Fluorobiphenyl			**0.00100**	0.0010		100.1	21.4	142	05/06/2020
Surr: Nitrobenzene-d5			**0.000989**	0.0010		98.9	15	163	05/06/2020
Surr: p-Terphenyl-d14			**0.000969**	0.0010		96.9	10	173	05/06/2020

Batch 164814 **SampType:** MSD Units **mg/L** RPD Limit **40**

SampID: 20041763-027AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		**0.00231**	0.0020	0.00008650	111.2	0.002314	0.10	05/06/2020
Acenaphthylene	0.000100	B	**0.00232**	0.0020	0.0004902	91.3	0.002429	4.74	05/06/2020
Anthracene	0.000300		**0.00233**	0.0020	0	116.4	0.002369	1.75	05/06/2020
Benzo(a)anthracene	0.000100		**0.00238**	0.0020	0.0001176	113.2	0.002296	3.69	05/06/2020
Benzo(a)pyrene	0.000100		**0.00256**	0.0020	0.0001921	118.3	0.002546	0.51	05/06/2020
Benzo(b)fluoranthene	0.000100		**0.00270**	0.0020	0.0001720	126.5	0.002648	2.00	05/06/2020
Benzo(g,h,i)perylene	0.000200		**0.00226**	0.0020	0.0001127	107.2	0.002249	0.37	05/06/2020
Benzo(k)fluoranthene	0.000100		**0.00222**	0.0020	0	111.2	0.002198	1.13	05/06/2020
Chrysene	0.000100		**0.00216**	0.0020	0.00008530	103.8	0.002304	6.41	05/06/2020
Dibenzo(a,h)anthracene	0.000100		**0.00261**	0.0020	0	130.3	0.002586	0.75	05/06/2020
Fluoranthene	0.000300		**0.00235**	0.0020	0	117.5	0.002375	1.04	05/06/2020
Fluorene	0.000200		**0.00243**	0.0020	0.0001761	112.7	0.002454	0.97	05/06/2020
Indeno(1,2,3-cd)pyrene	0.000100		**0.00248**	0.0020	0.00008540	119.8	0.002463	0.74	05/06/2020
Naphthalene	0.000400		**0.00232**	0.0020	0	116.1	0.002307	0.69	05/06/2020
Phenanthrene	0.000600		**0.00267**	0.0020	0	133.4	0.002669	0.02	05/06/2020
Pyrene	0.000200		**0.00245**	0.0020	0.0002106	112.1	0.002373	3.32	05/06/2020
Surr: 2-Fluorobiphenyl			**0.00100**	0.0010		100.1			05/06/2020
Surr: Nitrobenzene-d5			**0.00100**	0.0010		100.3			05/06/2020
Surr: p-Terphenyl-d14			**0.00102**	0.0010		102.4			05/06/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164754 **SampType:** MBLK Units µg/L

SampID: MBLK-N200430A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						04/30/2020
Ethylbenzene	2.0		ND						04/30/2020
Toluene	2.0		ND						04/30/2020
Xylenes, Total	4.0		ND						04/30/2020
Surr: 1,2-Dichloroethane-d4			44.9	50.00		89.7	80.9	113	04/30/2020
Surr: 4-Bromofluorobenzene			48.9	50.00		97.8	88.3	109	04/30/2020
Surr: Dibromofluoromethane			51.1	50.00		102.3	87.4	111	04/30/2020
Surr: Toluene-d8			47.4	50.00		94.7	86.1	110	04/30/2020

Batch 164754 **SampType:** LCSD Units µg/L RPD Limit **15.9**

SampID: LCSD-N200430A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		54.4	50.00	0	108.7	57.16	5.04	04/30/2020
Ethylbenzene	2.0		48.0	50.00	0	96.0	51.33	6.73	04/30/2020
Toluene	2.0		47.6	50.00	0	95.3	51.48	7.77	04/30/2020
Xylenes, Total	4.0		141	150.0	0	94.1	153.2	8.24	04/30/2020
Surr: 1,2-Dichloroethane-d4			45.2	50.00		90.4			04/30/2020
Surr: 4-Bromofluorobenzene			45.9	50.00		91.8			04/30/2020
Surr: Dibromofluoromethane			53.0	50.00		106.0			04/30/2020
Surr: Toluene-d8			45.8	50.00		91.6			04/30/2020

Batch 164754 **SampType:** LCS Units µg/L

SampID: LCS-N200430A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		57.2	50.00	0	114.3	78.5	119	04/30/2020
Ethylbenzene	2.0		51.3	50.00	0	102.7	78.2	114	04/30/2020
Toluene	2.0		51.5	50.00	0	103.0	78.6	112	04/30/2020
Xylenes, Total	4.0		153	150.0	0	102.1	78.3	114	04/30/2020
Surr: 1,2-Dichloroethane-d4			44.6	50.00		89.2	80.9	113	04/30/2020
Surr: 4-Bromofluorobenzene			47.5	50.00		94.9	88.3	109	04/30/2020
Surr: Dibromofluoromethane			51.9	50.00		103.9	87.4	111	04/30/2020
Surr: Toluene-d8			46.3	50.00		92.7	86.1	110	04/30/2020

Batch 164767 **SampType:** MBLK Units µg/L

SampID: MBLK-T200501A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						05/01/2020
Ethylbenzene	2.0		ND						05/01/2020
Toluene	2.0		ND						05/01/2020
Xylenes, Total	4.0		ND						05/01/2020
Surr: 1,2-Dichloroethane-d4			51.1	50.00		102.3	80.9	113	05/01/2020
Surr: 4-Bromofluorobenzene			51.0	50.00		101.9	88.3	109	05/01/2020
Surr: Dibromofluoromethane			50.5	50.00		100.9	87.4	111	05/01/2020
Surr: Toluene-d8			50.0	50.00		100.1	86.1	110	05/01/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164767 **SampType:** LCSD Units µg/L RPD Limit 15.9

SampID: LCSD-T200501A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		48.4	50.00	0	96.8	49.68	2.61	05/01/2020
Ethylbenzene	2.0		46.5	50.00	0	93.1	48.14	3.38	05/01/2020
Toluene	2.0		47.3	50.00	0	94.7	48.13	1.68	05/01/2020
Xylenes, Total	4.0		141	150.0	0	94.3	146.5	3.50	05/01/2020
Surr: 1,2-Dichloroethane-d4			51.2	50.00		102.3			05/01/2020
Surr: 4-Bromofluorobenzene			51.7	50.00		103.4			05/01/2020
Surr: Dibromofluoromethane			51.1	50.00		102.3			05/01/2020
Surr: Toluene-d8			50.2	50.00		100.5			05/01/2020

Batch 164767 **SampType:** LCS Units µg/L

SampID: LCS-T200501A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		49.7	50.00	0	99.4	78.5	119	05/01/2020
Ethylbenzene	2.0		48.1	50.00	0	96.3	78.2	114	05/01/2020
Toluene	2.0		48.1	50.00	0	96.3	78.6	112	05/01/2020
Xylenes, Total	4.0		146	150.0	0	97.7	78.3	114	05/01/2020
Surr: 1,2-Dichloroethane-d4			51.3	50.00		102.6	80.9	113	05/01/2020
Surr: 4-Bromofluorobenzene			51.3	50.00		102.6	88.3	109	05/01/2020
Surr: Dibromofluoromethane			51.2	50.00		102.4	87.4	111	05/01/2020
Surr: Toluene-d8			48.9	50.00		97.7	86.1	110	05/01/2020

Batch 164767 **SampType:** MS Units µg/L

SampID: 20041763-026DMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		52.2	50.00	0	104.3	72	120	05/01/2020
Ethylbenzene	2.0		53.9	50.00	0	107.9	74.8	115	05/01/2020
Toluene	2.0		50.9	50.00	0	101.7	70.6	109	05/01/2020
Xylenes, Total	4.0		107	100.0	0	106.8	72.1	113	05/01/2020
Surr: 1,2-Dichloroethane-d4			51.2	50.00		102.4	80.9	113	05/01/2020
Surr: 4-Bromofluorobenzene			52.0	50.00		104.0	88.3	109	05/01/2020
Surr: Dibromofluoromethane			50.3	50.00		100.7	87.4	111	05/01/2020
Surr: Toluene-d8			50.3	50.00		100.6	86.1	110	05/01/2020

Batch 164767 **SampType:** MSD Units µg/L RPD Limit 20

SampID: 20041763-026DMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		45.6	50.00	0	91.2	52.17	13.44	05/01/2020
Ethylbenzene	2.0		46.1	50.00	0	92.3	53.93	15.57	05/01/2020
Toluene	2.0		44.7	50.00	0	89.5	50.86	12.80	05/01/2020
Xylenes, Total	4.0		90.0	100.0	0	90.0	106.8	16.99	05/01/2020
Surr: 1,2-Dichloroethane-d4			51.7	50.00		103.5			05/01/2020
Surr: 4-Bromofluorobenzene			52.8	50.00		105.7			05/01/2020
Surr: Dibromofluoromethane			49.6	50.00		99.2			05/01/2020
Surr: Toluene-d8			50.4	50.00		100.8			05/01/2020

Client: ERM **Work Order:** 20041763

Client Project: Champaign GW **Report Date:** 07-May-2020

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

Batch 164767 **SampType:** MS Units **µg/L**

SampID: 20041763-027DMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		**49.3**	50.00	0	98.6	72	120	05/01/2020
Ethylbenzene	2.0		**49.8**	50.00	0	99.7	74.8	115	05/01/2020
Toluene	2.0		**47.8**	50.00	0	95.7	70.6	109	05/01/2020
Xylenes, Total	4.0		**95.8**	100.0	0	95.8	72.1	113	05/01/2020
Surr: 1,2-Dichloroethane-d4			**50.7**	50.00		101.3	80.9	113	05/01/2020
Surr: 4-Bromofluorobenzene			**51.2**	50.00		102.4	88.3	109	05/01/2020
Surr: Dibromofluoromethane			**49.6**	50.00		99.2	87.4	111	05/01/2020
Surr: Toluene-d8			**48.4**	50.00		96.9	86.1	110	05/01/2020

Batch 164767 **SampType:** MSD Units **µg/L** RPD Limit **20**

SampID: 20041763-027DMSD

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	49.29	2.29	05/01/2020
Ethylbenzene	2.0		**50.7**	50.00	0	101.3	49.83	1.67	05/01/2020
Toluene	2.0		**48.3**	50.00	0	96.6	47.84	0.96	05/01/2020
Xylenes, Total	4.0		**98.4**	100.0	0	98.4	95.75	2.77	05/01/2020
Surr: 1,2-Dichloroethane-d4			**52.7**	50.00		105.4			05/01/2020
Surr: 4-Bromofluorobenzene			**51.7**	50.00		103.4			05/01/2020
Surr: Dibromofluoromethane			**50.2**	50.00		100.5			05/01/2020
Surr: Toluene-d8			**51.0**	50.00		102.0			05/01/2020

Receiving Check List

http://www.teklabinc.com/

Client: ERM

Client Project: Champaign GW

Work Order: 20041763

Report Date: 07-May-2020

Carrier: Greg Moore

Received By: KMT

Completed by: Amanda R. Ham
On: 30-Apr-2020

Reviewed by: Elizabeth A. Hurley
On: 30-Apr-2020

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 5.1
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.

Trip Blank collection date and time will be reported as the received date and time (end of trip). - ehurley - 4/30/2020 4:42:44 PM

CHAIN OF CUSTODY

pg. 1 of 4 Work order # 200417163

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 5.1 °C LTGT

Preserved in: ☐ LAB ☒ FIELD KMT 4/30/20 **FOR LAB USE ONLY**

Lab Notes: per Greg Moore, VOA vials labeled 108 should be 107R, vials labeled 306 should be 108, times & dates are correct KMT 4/30/20

Client Comments Please analyze Pb @ lower RL

ØHS KMT 4/30/20

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	BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
200417163-001	UMW-102-WG-20200427	4/27/20, 1600	1	1	1	2	X	X	X	X	X
-002	UMW-105-WG-20200429	4/29/20, 1230	1	1	1	2	X	X	X	X	X
-003	UMW-106R-WG-20200428	4/28/20, 1615	1	1	1	2	X	X	X	X	X
-004	UMW-107R-WG-20200428	4/28/20, 1315	1	1	1	2	X	X	X	X	X
-005	UMW-108-WG-20200428	4/28/20 1145	1	1	1	2	X	X	X	X	X
-006	UMW-109-WG-20200428	4/28/20, 1020	1	1	1	2	X	X	X	X	X
-007	UMW-111A-WG-20200428	4/28/20, 1015	1	1	1	2	X	X	X	X	X
-008	UMW-116-WG-20200428	4/28/20, 1330	1	1	1	2	X	X	X	X	X
-009	UMW-117-WG-20200428	4/28/20, 1515	1	1	1	2	X	X	X	X	X
-010	UMW-118-WG-20200428	4/28/20, 1135	1	1	1	2	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
K. Moore (ERM)	4/30/20, 1515		4/30/20 1516

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: 57777

TK KMT 4/30/20

CHAIN OF CUSTODY

pg. 2 of 4 Work order # 200417163

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
Please analyze Pb @ lower RL

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: 8TEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
200417163-011	UMW-119-WG-20200428	4/28/20, 0830	1	1	1	2	X	X	X	X	X
-012	UMW-120-WG-20200427	4/27/20, 1700	1	1	1	2	X	X	X	X	X
-013	UMW-121-WG-20200429	4/29/20, 1330	1	1	1	2	X	X	X	X	X
-014	UMW-122-WG-20200429	4/29/20, 0845	1	1	1	2	X	X	X	X	X
-015	UMW-123-WG-20200428	4/28/20, 1730	1	1	1	2	X	X	X	X	X
-016	UMW-124-WG-20200429	4/29/20, 1015	1	1	1	2	X	X	X	X	X
-017	UMW-125-WG-20200430	4/30/20, 0810	1	1	1	2	X	X	X	X	X
-018	UMW-126-WG-20200429	4/29/20, 1405	1	1	1	2	X	X	X	X	X
-019	UMW-127-WG-20200429	4/29/20, 1540	1	1	1	2	X	X	X	X	X
-020	UMW-300-WG-20200428	4/28/20, 0900	1	1	1	2	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
D Moore (ERM)	4/30/20, 1515		4/30/20 1516

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: 57777

CHAIN OF CUSTODY

pg. 3 of 4 Work order # 20041763

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:

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

Client Comments

Please analyze Pb @ lower RL

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	BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
20041763-021	UMW-301R-WG-20200429	4/29/20, 1750	1	1	1	2	X	X	X	X	X
-022	UMW-302-WG-20200429	4/29/20, 1430	1	1	1	2	X	X	X	X	X
-023	UMW-303-WG-20200428	4/28/20, 1430	1	1	1	2	X	X	X	X	X
-024	UMW-304R-WG-20200430	4/30/20, 0920	1	1	1	2	X	X	X	X	X
-025	UMW-305-WG-20200429	4/29/20, 1045	1	1	1	2	X	X	X	X	X
-026	UMW-306-WG-20200429	4/29/20, 0845	1	1	1	2	X	X	X	X	X
-027	UMW-307-WG-20200428	4/28/20, 1655	1	1	1	2	X	X	X	X	X
-028	UMW-308-WG-20200429	4/29/20, 1700	1	1	1	2	X	X	X	X	X
-029	DUP 001-WG-20200429	4/29/20 —	1	1	1	2	X	X	X	X	X
-030	DUP 002-WG-20200429	4/29/20 —	1	1	1	2	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
D. Moore (ERM)	4/30/20, 1515		4/30/20 1516

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: 57777

CHAIN OF CUSTODY

pg. 4 of 4 Work order # 20041763

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

Please analyze Pb @ lower RL

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
20041763-031	DUP 003-WG-20200429	4/29/20 —	1	1	1	2	X	X	X	X	X
-032	EB-01-WQ-20200428	4/28/20, 1410	1	1	1	2	X	X	X	X	X
-033	TB-01-WQ-20200428	— —				2	X	X			
-026	UMW-306-WG-20200429 MS/MSD	4/29/20, 0845	2	1	1	4	X	X	X	X	X
-027	UMW-307-WG-20200428 MS/MSD	4/28/20, 1655	2	1	1	4	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
D. Moore (ERM)	4/30/20, 1515	[signature]	4/30/20 1516

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: 57777

ERM

1050 SW 6th Avenue
Suite 1650
Portland, OR 97204

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

www.erm.com

Memorandum

To	Lacy Smith
From	Rachel James
Date	29 May 2020
Reference	0543705
Subject	Data Review of Ameren Champaign Groundwater Samples Second Quarter 2020: Teklab, Inc. Data Package 20041763.

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

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

- **Holding Time and Sample Preservation**: The period of time between collection of the sample and preparation/analysis of the sample is evaluated. Analyses performed for this project have method-prescribed holding times as well as temperature and chemical preservation requirements.
- **Blank Samples**: The preparation and analysis of reagent (contaminant-free) water is evaluated. Blank samples for this investigation included method, trip, and equipment rinsates. Detections in a blank sample may indicate laboratory, transportation, or field contamination. All samples are evaluated for common laboratory contaminants during the blank evaluation.
- **Spike Samples**: The preparation and analysis of an environmental sample or a sample of reagent water spiked with a subset of target analytes 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 analytes similar to target analytes 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 analytes.
- **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-122-WG-20200429, UMW-124-WG-20200429, UMW-302-WG-20200429, UMW-307-WG-20200429, DUP-001-WG-20200429, and DUP 003-WG-20200429) 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 analytes similar to target analytes of interest that are added to sample aliquots for organic analysis. The internal standards are used to quantitatively and qualitatively evaluate retention time and response for each sample.
- **Recalculation:** Ten percent of the initial calibration, continuing calibration, internal response, surrogate percent recoveries (%R), laboratory control sample/laboratory control sample duplicate (LCS/LCSD) %R, matrix spike/matrix spike duplicate (MS/MSD) %R, and all of the detected sample concentrations were recalculated.

CHAIN-OF-CUSTODY DISCREPANCIES

A collection date and time was not listed on the chain-of-custody for the trip blank sample. Teklab logged the sample in with the date and time of sample receipt as the collection date. No qualifications were necessary. The analysis of the trip blank sample still would have been in hold if the time of the first field sample collected had been used.

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. No qualifications were necessary.

BLANK EVALUATION

The method blank sample results were non-detected for each of the target analytes, with the exception summarized in Table 1. Teklab qualified all sample results for acenaphthylene in batch 164814 with B flags. Acenaphthylene was detected in the method blank sample at a concentration (0.0000501 mg/L) below the reporting limit (0.000100 mg/L) and was reported as non-detect (ND) at the reporting limit. Results within five times the blank concentration and greater than the reporting limit were qualified as estimated with a high bias (J+). Associated non-detected results or results greater than five times the blank concentration for acenaphthylene are considered unaffected by the blank contamination and were not qualified. The laboratory-applied B flags have been removed.

Naphthalene was detected in equipment blank sample EB-01-WQ-20200428 at a concentration above the reporting limit. Results less than the blank concentration, but greater than the reporting limit were qualified as non-detect (U) at the sample concentration. Results within five times the blank concentration and greater than the reporting limit were qualified as estimated with a high bias (J+). The blank detections and associated data are presented in Table 1.

CALIBRATION EVALUATION

Two types of calibration data were reviewed. These were initial calibration (ICAL) and continuing/ initial 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 deviation (%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 reported sample results with three exceptions. Benzo(a)pyrene did not meet the %D in CCV samples analyzed on 5/3/20 and 5/7/20. Teklab did not qualify the affected sample results. Affected sample results for benzo(a)pyrene were non-detected and were qualified as estimates at the reporting limit (UJ) due to the CCV %D. The qualified results are summarized in Table 2.

BLANK SPIKE EVALUATION

The LCS/LCSD recoveries and relative percent differences (RPDs) were within the laboratory's limits of acceptance, with the exceptions presented in Table 3. Benzo(k)fluoranthene and chrysene were recovered above the control limits in an LCS/LCSD; however, these analytes were not detected in the associated samples and qualifications were not necessary.

MATRIX SPIKE EVALUATION

The MS/MSD recoveries and RPDs were within the laboratory's limits of acceptance for project samples, with two exceptions. Benzo(a)pyrene and benzo(b)fluoranthene were recovered above the control limits in the MS/MSD samples prepared from UMW-306-WG-20200429. Teklab qualified these results with S flags. These analytes were not detected in the parent sample; therefore, they are considered unaffected by the high MS/MSD recoveries and the laboratory-applied S flags were removed. Additional qualifications were not necessary. The matrix spike outliers are presented in Table 3.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within acceptable limits with three exceptions. Data were not qualified since in all cases the dilution factor was 10 times or greater. The surrogate outliers are presented in Table 4.

INTERNAL STANDARD EVALUATION

The internal standard responses associated with reported results were within acceptable limits, with the exceptions noted in Table 5. Responses for Method 8270C internal standard acenaphthene-d10 were below the lower control limit in samples DUP 001-WG-20200429 and DUP 002-WG-20200429. Teklab qualified the affected results in sample DUP 002-WG-20200429 with I flags, but did not qualify the affected results in sample DUP 001-WG-20200429. The internal standard recovery is inversely proportional to the sample concentration, in this case resulting in a potential high bias for detected analytes. The laboratory-applied I flags have been removed. In both samples, the affected detected analytes were qualified as estimates with a high bias (J+) and non-detected analytes were qualified as estimates at the reporting limit (UJ), per National Functional Guidelines.

FIELD DUPLICATE EVALUATION

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

RECALCULATION

All result recalculations agreed with reported results.

OVERALL ASSESSMENT

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

Table 1
Blank and Associated Suspect Sample Detections
Second Quarter 2020 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Blank ID	Detected Analyte	Reported Blank Concentration	Blank Report Limit	Associated Sample	Associated Sample Result	Associated Sample Report Limit	Units	ERM Qualifier
20041763	MBLK-164814	Acenaphthylene	0.0000501 [1]	0.000100	UMW-303-WG-20200428	0.000112	0.000100	mg/L	J+
	EB-01-WQ-20200428	Naphthalene	0.00168	0.000400	UMW-126-WG-20200429	0.000887	0.000400	mg/L	0.000887 U
					UMW-127-WG-20200429	0.00188	0.000400	mg/L	J+
					UMW-303-WG-20200428	0.00306	0.000400	mg/L	J+
					UMW-304R-WG-20200430	0.000441	0.000400	mg/L	0.000441 U
					DUP 002-WG-20200429	0.00115	0.000400	mg/L	0.00115 U

Lab package reviewed: 20041763

Notes:
1 = Reported as non-detect (ND) at the reporting limit by Teklab. Actual concentration taken from Level 4 lab report.
EB = Equipment blank
J+ = Detected results are estimated with a high bias
MBLK = Method blank
mg/L = Milligrams per liter
U = Nondetected

Table 2
Calibration Verification Recoveries Outside of Acceptable Limits
Second Quarter 2020 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	CCV Sample ID	Analyte	CCV Deviation (%)	CCV Limits (%)	Associated Sample	Reported Concentration	Units	ERM Qualifier
20041763	CCV Analyzed 5/3/20 15:37 CCV Analyzed 5/3/20 18:22	Benzo(a)pyrene	-23.9 -23.2	± 20	UMW-102-WG-20200427 UMW-105-WG-20200429 UMW-106R-WG-20200428 UMW-107R-WG-20200428 UMW-108-WG-20200428 UMW-109-WG-20200428 UMW-111A-WG-20200428 UMW-116-WG-20200428	ND	mg/L	UJ
	CCV Analyzed 5/7/20 8:03	Benzo(a)pyrene	36.7	± 20	DUP 002-WG-20200429	ND	mg/L	UJ

Lab package reviewed: 20041763

Notes:
CCV = Continuing calibration verification
mg/L = Milligrams per liter
ND = Not detected
UJ = Nondetected, estimated report limit

Table 3
Spike Recoveries Outside of Acceptable Limits
Second Quarter 2020 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Spike Sample ID	Associated Sample	Analyte	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
LCS/LCSD										
20041763	LCS-164770 LCSD-164770	None for qualification	Benzo(k)fluoranthene	126.7/123.2	61.9-126	2.80	40	--	--	--
			Chrysene	129.2/127.8	59.6-127	1.09	40	--	--	--
MS/MSD										
20041763	UMW-306-WG-20200429 MS/MSD	UMW-306-WG-20200429	Benzo(a)pyrene	132.7/132.5	40.8-132	0.16	40	ND	mg/L	--
			Benzo(b)fluoranthene	143.9/138.7	41.9-132	3.69	40	ND	mg/L	--

Lab package reviewed: 20041763

Notes:
LCS/LCSD = Laboratory control sample/laboratory control sample duplicate
mg/L = Milligrams per liter
MS/MSD = Matrix spike/matrix spike duplicate
ND = Not detected
RPD = Relative percent difference

Table 4
Surrogate Recovery Results out of Acceptable Limits
Second Quarter 2020 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Surrogate	Recovery (%)	Limit (%)	Affected Analyte	Dilution Factor	ERM Qualifier
20041763	UMW-302-WG-20200429	8270C	2-Fluorobiphenyl	0	21.4-142	--	1000	--
	DUP 001-WG-20200429	8270C	Nitrobenzene-d5	0	15-163	--	25	--
	DUP 003-WG-20200429	8270C	Nitrobenzene-d5	320	15-163	--	1000	--

Lab package reviewed: 20041763

Table 5
Internal Standard Responses Outside of Acceptable Limits
Second Quarter 2020 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Internal Standard	Response (%)	Limit (%)	Affected Analyte	Result	Units	ERM Qualifier
20041763	DUP 001-WG-20200429	8270C	Acenaphthene-d10	2463384	2539470 - 10157880	Acenaphthene	0.000797	mg/L	J+
						Acenaphthylene	0.000541	mg/L	J+
						Fluorene	0.000534	mg/L	J+
	DUP 002-WG-20200429	8270C	Acenaphthene-d10	2527647	2539470 - 10157880	Acenaphthene	0.000117	mg/L	J+
						Acenaphthylene	ND	mg/L	UJ
						Fluorene	ND	mg/L	UJ

Lab package reviewed: 20041763

Notes:
J+ = Detected results are estimated with a high bias
mg/L = Milligrams per liter
ND = Not detected
UJ = Nondetected, estimated report limit

Table 6
Field Duplicate Results and Calculated Relative Percent Differences
Second Quarter 2020 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Primary/Duplicate Sample ID	Analyte	Concentration		Report Limit		Units	RPD
			Sample	Duplicate	Sample	Duplicate		
20041763	UMW-124-WG-20200429/ DUP 001-WG-20200429	Cyanide	ND	0.009	0.005	0.005	mg/L	NC
		Barium	0.0373	0.0365	0.0025	0.0025	mg/L	2.2
		Acenaphthene	0.000567	0.000797	0.000100	0.000100	mg/L	34
		Acenaphthylene	0.000337	0.000541	0.000100	0.000100	mg/L	46
		Fluorene	0.000229	0.000534	0.000200	0.000200	mg/L	80
		Naphthalene	0.0520	0.0482	0.0200	0.0100	mg/L	7.6
		Phenanthrene	ND	0.00114	0.000600	0.000600	mg/L	NC
		Pyrene	ND	0.000320	0.000200	0.000200	mg/L	NC
		Benzene	74.5	72.7	0.5	0.5	µg/L	2.4
		Ethylbenzene	8.7	9.6	2.0	2.0	µg/L	9.8
		Toluene	50.0	53.2	2.0	2.0	µg/L	6.2
		Xylene, Total	25.2	27.4	4.0	4.0	µg/L	8.4
	UMW-126-WG-20200429/ DUP 002-WG-20200429	Barium	0.0421	0.0427	0.0025	0.0025	mg/L	1.4
		Acenaphthene	ND	0.000117	0.000100	0.000100	mg/L	NC
		Naphthalene	0.000887	0.00115	0.000400	0.000400	mg/L	26
		Phenanthrene	ND	0.000708	0.000600	0.000600	mg/L	NC
		Pyrene	ND	0.000230	0.000200	0.000200	mg/L	NC
		Benzene	74.2	68.7	0.5	0.5	µg/L	7.7
		Toluene	3.5	3.6	2.0	2.0	µg/L	2.8

Table 6
Field Duplicate Results and Calculated Relative Percent Differences
Second Quarter 2020 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Primary/Duplicate Sample ID	Analyte	Concentration		Report Limit		Units	RPD
			Sample	Duplicate	Sample	Duplicate		
20041763	UMW-302-WG-20200429/ DUP 003-WG-20200429	Cyanide	0.087	0.089	0.025	0.025	mg/L	2.3
		Barium	0.059	0.056	0.0025	0.0025	mg/L	5.7
		Acenaphthene	0.000770	0.000957	0.000100	0.000100	mg/L	22
		Acenaphthylene	0.000721	0.000903	0.000100	0.000100	mg/L	22
		Naphthalene	3.08	3.43	0.400	0.400	mg/L	11
		Benzene	426	458	5.0	5.0	µg/L	7.2
		Ethylbenzene	961	1060	20.0	20.0	µg/L	9.8
		Xylene, Total	268	281	40.0	40.0	µg/L	4.7

Lab package reviewed: 20041763

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

ERM has over 150 offices across the following countries worldwide

Argentina	New Zealand
Australia	Panama
Belgium	Peru
Brazil	Poland
Canada	Portugal
China	Puerto Rico
Colombia	Romania
France	Russia
Germany	Singapore
Hong Kong	South Africa
India	South Korea
Indonesia	Spain
Ireland	Sweden
Italy	Taiwan
Japan	Thailand
Kazakhstan	The Netherlands
Kenya	United Arab Emirates
Malaysia	United Kingdom
Mexico	United States
Mozambique	Vietnam

ERM's St. Louis, Missouri Office

T: 314-733-4490
F: 314-754-8121
www.erm.com

The business of sustainability

ERM