ERM

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

Telephone: +1 314 733 4490
Fax: +1 314 754 8121
Website: www.erm.com

December 20, 2022

Ms. Robin Ambrose
Illinois Environmental Protection Agency
Division of Remediation Management
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: Groundwater Monitoring Summary
Fourth Quarter 2022 Sampling Event
Champaign Former Manufactured Gas Plant Site, Champaign, Illinois

Dear Ms. Ambrose:

On behalf of Ameren Services, Environmental Resources Management, Inc. (ERM) has completed the fourth quarter 2022 groundwater sampling event at the Champaign Former Manufactured Gas Plant Site (Site), located at 308 North Fifth Street in Champaign, Illinois. This report summarizes the field data and analytical results for the quarterly groundwater monitoring event conducted from October 10 through October 13, 2022.

INTRODUCTION

Groundwater sampling activities for the fourth quarter 2022 monitoring event were conducted from October 10 through October 13, 2022. During the sampling event, groundwater samples were collected from 24 monitoring wells, which included seven on-site monitoring wells and 17 off-site monitoring wells.

The depth to groundwater was initially measured at each monitoring well location on October 10, 2022, prior to initiation of sampling activities. Prior to sampling at each monitoring well location, groundwater was purged from the monitoring well using the in-well dedicated bladder pumps until water quality instrumentation readings indicated that measured parameters had stabilized. Upon stabilization, groundwater samples were collected in containers provided by the laboratory and placed in ice-filled coolers pending delivery to the laboratory. Monitoring wells were gauged, purged and sampled from least impacted to most impacted. The field parameters collected during sampling activities are summarized in Table 1.

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

Groundwater level measurement data for the fourth quarter 2022 monitoring event included the depth to water (DTW) below each monitoring well's top of casing (TOC) and calculated groundwater elevation are provided in Table 2. Groundwater elevation contour maps for the shallow monitoring zone (100 series wells) and the intermediate depth unit (300 series wells) are provided as Figures 1 and 2, respectively.

During groundwater sampling activities, monitoring well UMW-122 went dry during purging due to the monitoring well's recharge was less than the removal rate. Attempts were made to reduce the removal rate but the monitoring well eventually went dry. UMW-122 was allowed to recharge overnight and ERM returned the following day to collect a groundwater sample.

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

Quality assurance samples collected during the event included duplicates, matrix spike and matrix spike duplicates (MS/MSD), equipment blanks, 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 3 adjacent to their respective primary samples. A summary of the results of data validation is also included with the analytical report in Attachment 1.

Purge water that was collected from the monitoring wells during the fourth quarter 2022 sampling event was containerized in two 55-gallon poly drums. Approximately 100 gallons of purge water were generated during the October 2022 groundwater monitoring event. The purge water was removed from the Site for disposal by O6 Environmental, LLC (O6ENV) on October 13, 2022 following completion of sampling activities.

GROUNDWATER MONITORING RESULTS

Groundwater Levels

The measured DTW and the calculated water level elevations at the Site for the fourth quarter 2022 monitoring event are shown on Table 2. The DTW in the shallow monitoring wells ranged from 4.06 to 14.10 feet below the TOC. The shallowest occurrence of groundwater occurred at the on-site monitoring well locations, with depths ranging from 4.06 to 6.15 feet below TOC.

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 October 2022 were calculated to be 0.017 (UMW-124 to UMW-105), 0.010 (UMW-124 to UMW-116), and 0.010 (UMW-125 to UMW-109) foot per foot (ft/ft). This range of values reflects the general gradients to the south, west and north from the Site, respectively.

The depths to groundwater in the eight monitoring wells that monitor the intermediate groundwater unit, ranged from 27.65 to 30.15 feet below the TOC. As shown on Figure 2, the intermediate groundwater flow direction is generally towards the south and southeast, with a groundwater gradient of approximately 0.001 ft/ft across the Site (UMW-300 to UMW-308).

Analytical Results

Figure 3 summarizes the monitoring well locations where constituents reported in samples exceeded at least one Class I (intermediate groundwater) or Class II (shallow groundwater) ingestion RO, or groundwater (vapor) inhalation RO for indoor air at residential sites (inhalation RO). The shallow groundwater unit underlying and in the vicinity of the Site is classified as Class II groundwater, and the lower intermediate unit is classified as Class I groundwater. Two of the 24 monitoring wells sampled in the fourth quarter 2022 monitoring event had at least one MGP-related constituent exceeding its respective Class I or II ingestion, or inhalation RO.

The concentrations of RCRA metals and total cyanide detected in the groundwater samples were all below their respective groundwater RO.

A benzene concentration of 0.0526 mg/L was reported in the shallow on-site monitoring well UMW-124, which exceeds the Class II groundwater RO of 0.025 mg/L. Concentrations of other organic constituents detected in the other fifteen shallow monitoring wells located on-site and off-site were below their respective Class II RO.

Benzene and naphthalene were reported in the intermediate monitoring well UMW-302, at concentrations of 0.178 and 2.05 mg/L, exceeding the Class I groundwater ingestion ROs of 0.005 and 0.14 mg/L. Benzene, ethylbenzene, and naphthalene constituent concentrations also exceeded the groundwater inhalation ROs for indoor air at residential sites. This intermediate well is screened from 35 to 45 feet BLS, 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 eight intermediate monitoring wells screened in the lower groundwater unit, UMW-302 is the only intermediate well location with a constituent concentration exceeding a Class I groundwater ingestion or inhalation RO.

Data Validation

ERM reviewed analytical data from the fourth quarter 2022 monitoring 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-118-WG-20221011, UMW-124-WG-20221012, UMW-125-WG-20221012, UMW-302-WG-20221012, UMW-305-WG-20221011, and DUP-001-WG-20221012). A summary of the results of data validation is included with the analytical report in Attachment 1.

The total cyanide results for equipment blank samples EB-01-WQ-202210101 and EB-02-WQ-20221012 and the PAH results for equipment blank sample EB-002-WQ-20221012 were determined to be unusable due to either improper preservation or holding time disagreement with historical results.

With the exception of the rejected results, all of the data, including qualified data, can be used for decision-making purposes. However, the limitations indicated by the following applied qualifiers should be considered when using the data. A 'J' qualifier indicates that the result is an estimated detected result. A 'J-' qualifier indicates that the result is estimated with a low bias. A 'R' qualifier indicates that the result is rejected. A 'UJ' qualifier indicates that the result is non-detected with an estimated report limit.

CONCLUSIONS – 4th QUARTER RESULTS

Based on the data collected during the fourth quarter 2022 monitoring event, on-site monitoring well UMW-124 was the only shallow monitoring well where a constituent concentration was reported that exceeded a Class II groundwater ingestion RO. Benzene was the only constituent reported in the sample from UMW-124 that exceeded a groundwater RO. No other Class II groundwater ROs for organic (BTEX and PAHs) or inorganic (total cyanide or total RCRA metals) constituents were exceeded in samples collected from the other monitoring wells screened in the shallow groundwater unit.

The intermediate groundwater unit had detections in one monitoring well; UMW-302, located south of the Site exceeding groundwater ROs. Benzene and naphthalene were detected in UMW-302 at concentrations exceeding the Class I groundwater ingestion ROs and benzene, ethylbenzene, and naphthalene exceeded the groundwater inhalation ROs for indoor air.

CONCLUSIONS – SUMMARY OF ANNUAL RESULTS

The analytical results from sampling events completed during the two-year period from October 2020 through October 2022 are summarized in Table 4. The tabular display of the analytical results was used to assess changes in constituent concentrations over time.

Summary of Remediation Objectives Exceeded

Groundwater Ingestion Pathway

Exceedances of the groundwater ingestion ROs for the shallow and intermediate groundwater units (Class II or Class I ROs, respectively) for the four groundwater sampling events completed in 2022 were limited to the following monitoring well locations and constituents.

- UMW-124:
    - Benzene (0.025 mg/L Class II groundwater ingestion RO), all four quarter events with reported concentrations of 0.0974, 0.0494, 0.0563, and 0.0526 mg/L.
- UMW-302:
    - Benzene (0.005 mg/L Class I groundwater ingestion RO), all four quarter events with reported concentrations of 0.362, 0.323, 0.232, and 0.178 mg/L.
    - Ethylbenzene (0.7 mg/L Class I groundwater ingestion RO), for the first and second quarters with reported concentrations of 0.760 and 0.750 mg/L.
    - Naphthalene (0.14 mg/L Class I groundwater ingestion RO), all four quarter events with reported concentrations of 2.18, 2.83, 1.88, and 2.05 mg/L.

Indoor Inhalation Pathway

Exceedance of the groundwater RO for the indoor inhalation pathway at residential sites for the four groundwater sampling events completed in 2022 was limited to the following intermediate monitoring well location and constituents:

- UMW-302:
    - Benzene (0.11 mg/L Class I groundwater ingestion RO), all four quarter events with reported concentrations of 0.362, 0.323, 0.232, and 0.178 mg/L.
    - Ethylbenzene (0.37 mg/L Class I groundwater ingestion RO), all four quarter events with reported concentrations of 0.760, 0.750, 0.563, and 0.568 mg/L.
    - Naphthalene (0.075 mg/L Class I groundwater ingestion RO), all four quarter events with reported concentrations of 2.18, 2.83, 1.88, and 2.05 mg/L.

Analytical Trends

The analytical results from sampling events completed during the two-year period from October 2020 through October 2022 are summarized on Table 4. Figures 4A through 4C graphically display the concentration of selected constituents at monitoring well locations UMW-124, UMW-126 and UMW-302, respectively, over the course of their entire monitoring periods.

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

Ameren plans to have this fourth quarter 2022 monitoring event be the final groundwater sampling event at the Site. Should you have any questions about the material presented in this summary letter, please contact us at your convenience.

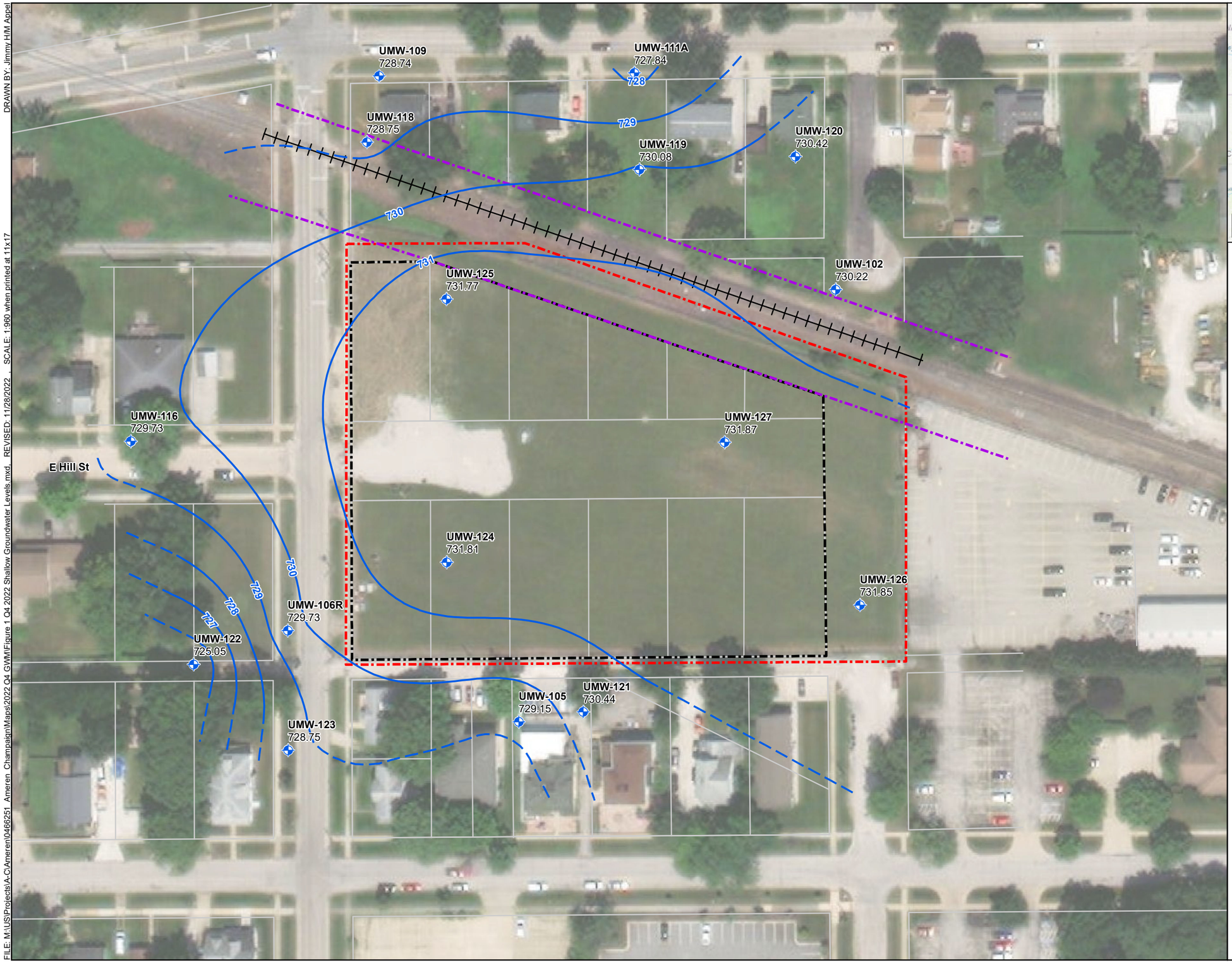
Sincerely,

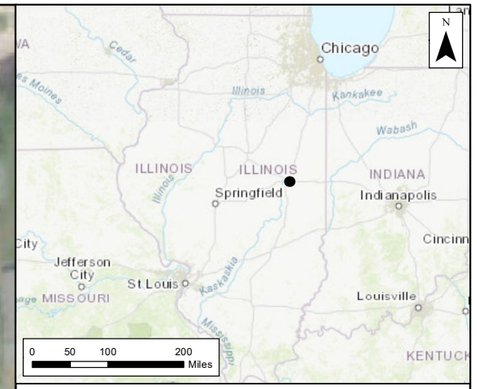
Jarred Schmidt
Senior Consultant, Project Management

Alan Cork, P.E.
Partner, Engineer

Figures	Figure 1 Shallow Groundwater Elevation Contours Figure 2 Intermediate Groundwater Elevation Contours Figure 3 Class I and II Groundwater RO Exceedances Figures 4A-C Graphs of Concentration versus Time for Selected Monitoring Well
Tables	Table 1 Summary of Field Parameters Table 2 Groundwater Elevation Data Table 3 Summary of Analytical Results Table 4 Analytical Result by Parameter
Attachment	Attachment1 Laboratory Analytical Reports and Data Validation Summary

Figures





Legend

- Shallow Monitoring Well with October 10 2022 Groundwater Elevation
- October 10 2022 Potentiometric Surface Contour (Dashed Where Inferred)
- Railroad
- Ameren Property Boundary
- 2009 Remediation Site Boundary
- Norfolk Southern Railroad Property Boundary

Notes:
All water levels in feet above NAVD88 datum.

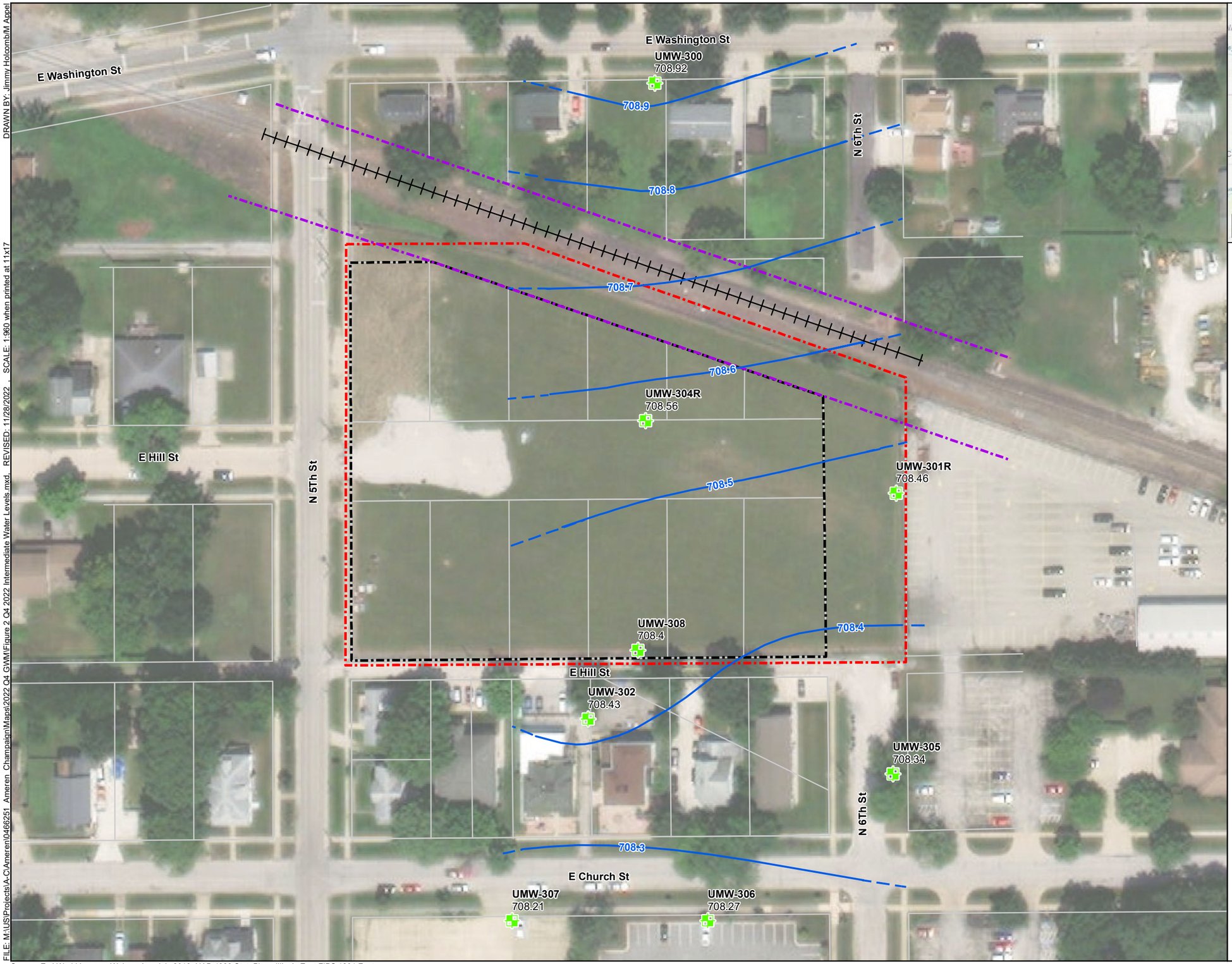
N

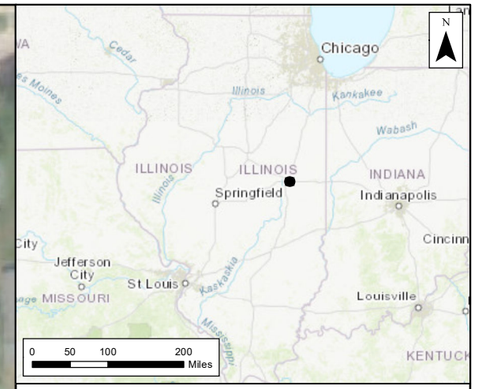
0 80 160
Feet

Figure 1
Shallow Groundwater Elevation Contours
October 10 2022
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com

DRAWN BY: Jimmy H/M Appel
REVISED: 11/28/2022 , SCALE: 1:960 when printed at 11x17
FILE: M:\US\Projects\A-C\Ameren\0466251 Ameren Champaign\Maps\2022 Q4 GWM\Figure 1 Q4 2022 Shallow Groundwater Levels.mxd





Legend

- Intermediate Monitoring Well with October 10 2022 Groundwater Elevation
- October 10 2022 Potentiometric Surface Contour (Dashed Where Inferred)
- Railroad
- Ameren Property Boundary
- 2009 Remediation Site Boundary
- Norfolk Southern Railroad Property Boundary

Notes:
All water levels in feet above NAVD88 datum.

*UMW-308 was anomalous and omitted from contouring

N

0 80 160
Feet

Figure 2
Intermediate Groundwater Elevation Contours
October 10 2022
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com

Source: Esri World Imagery Webservice, July 2018; NAD 1983 StatePlane Illinois East FIPS 1201 Feet

FILE: M:\US\Projects\A-C\Ameren\0466251 Ameren Champaign\Maps\2022 Q4 GWM\Figure 2 Q4 2022 Intermediate Water Levels.mxd REVISED: 11/28/2022 SCALE: 1:960 when printed at 11x17 DRAWN BY: Jimmy Holcomb/M Appel

E Washington St

E Washington St

N 6Th St

UMW-109

UMW-111A

UMW-300

UMW-118

UMW-119

UMW-120

UMW-125

UMW-102

UMW-304R

UMW-116

UMW-127

E Hill St

N 5Th St

UMW-301R

UMW-124
Benzene: 0.0526

UMW-126

UMW-106R

UMW-308

UMW-122

E Hill St

UMW-121

UMW-105

UMW-302
Benzene: 0.178
Ethylbenzene: 0.568
Naphthalene: 2.05

UMW-123

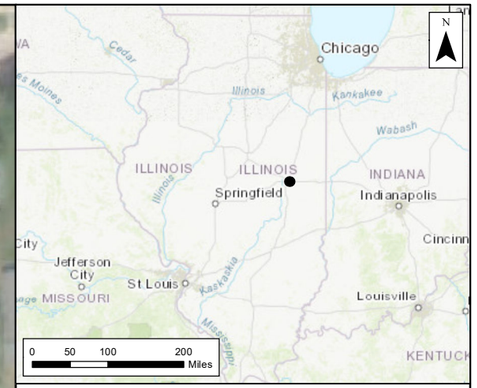
UMW-305

E Church St

N 6Th St

UMW-307

UMW-306



Legend

- Shallow Monitoring Well with Exceedance
- Intermediate Monitoring Well with Exceedance
- Intermediate Monitoring Well with No Exceedances
- 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).

N

0 80 160
Feet

Figure 3
Groundwater Ingestion and Inhalation RO Exceedances
October 10 2022 to October 12 2022
Ameren Services
Champaign, Illinois

Environmental Resources Management
www.erm.com
ERM

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

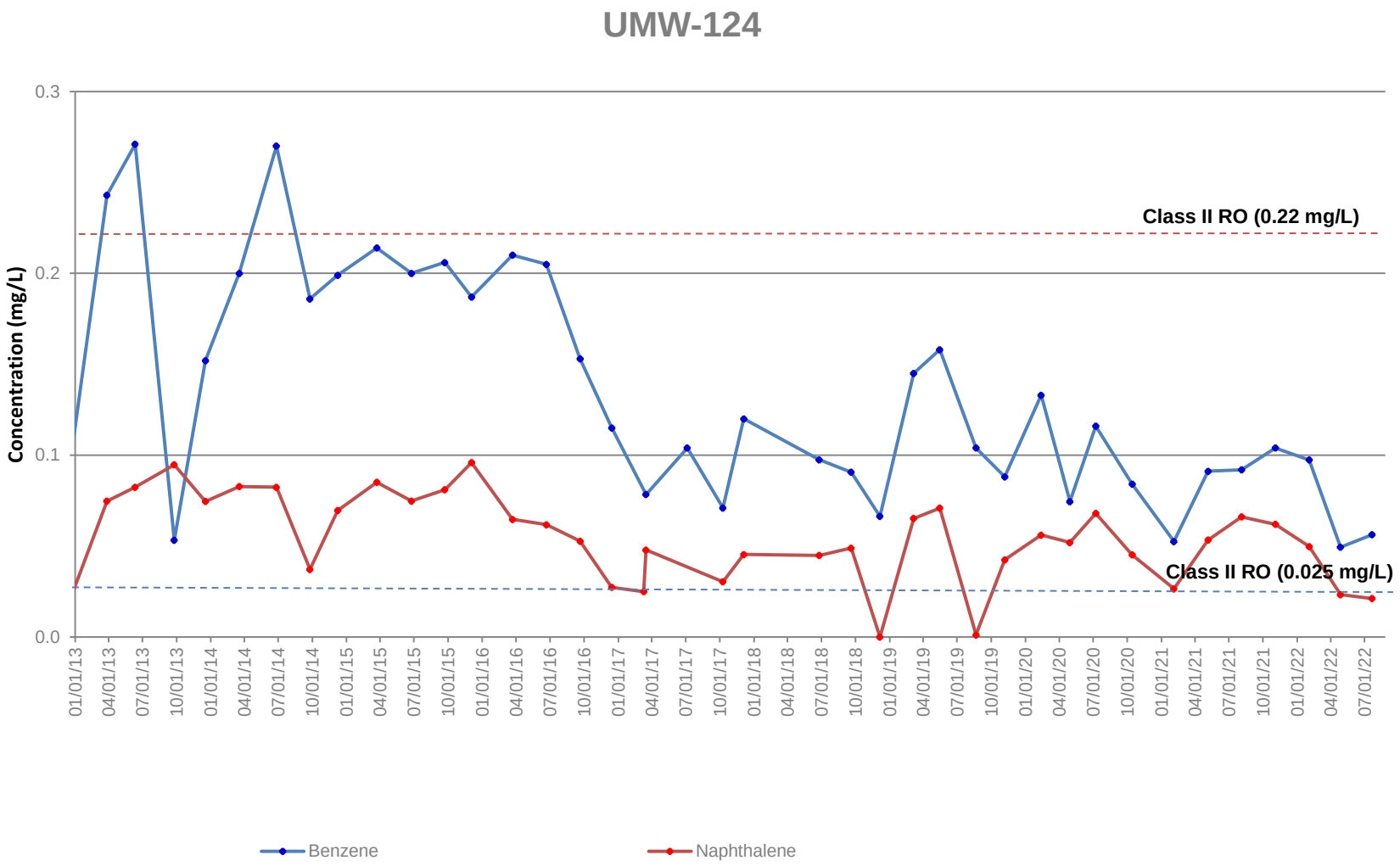


FIGURE 4B
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs

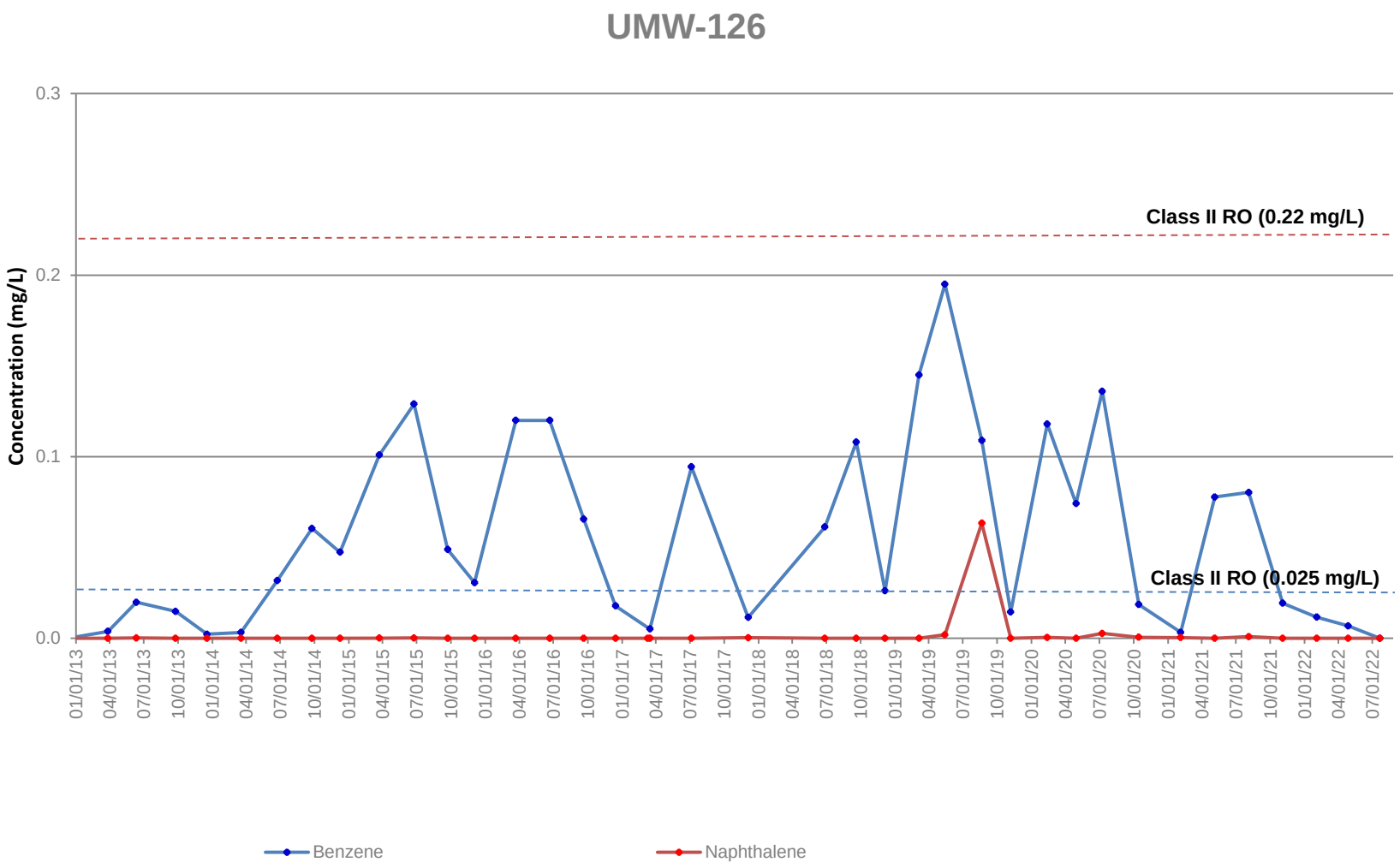
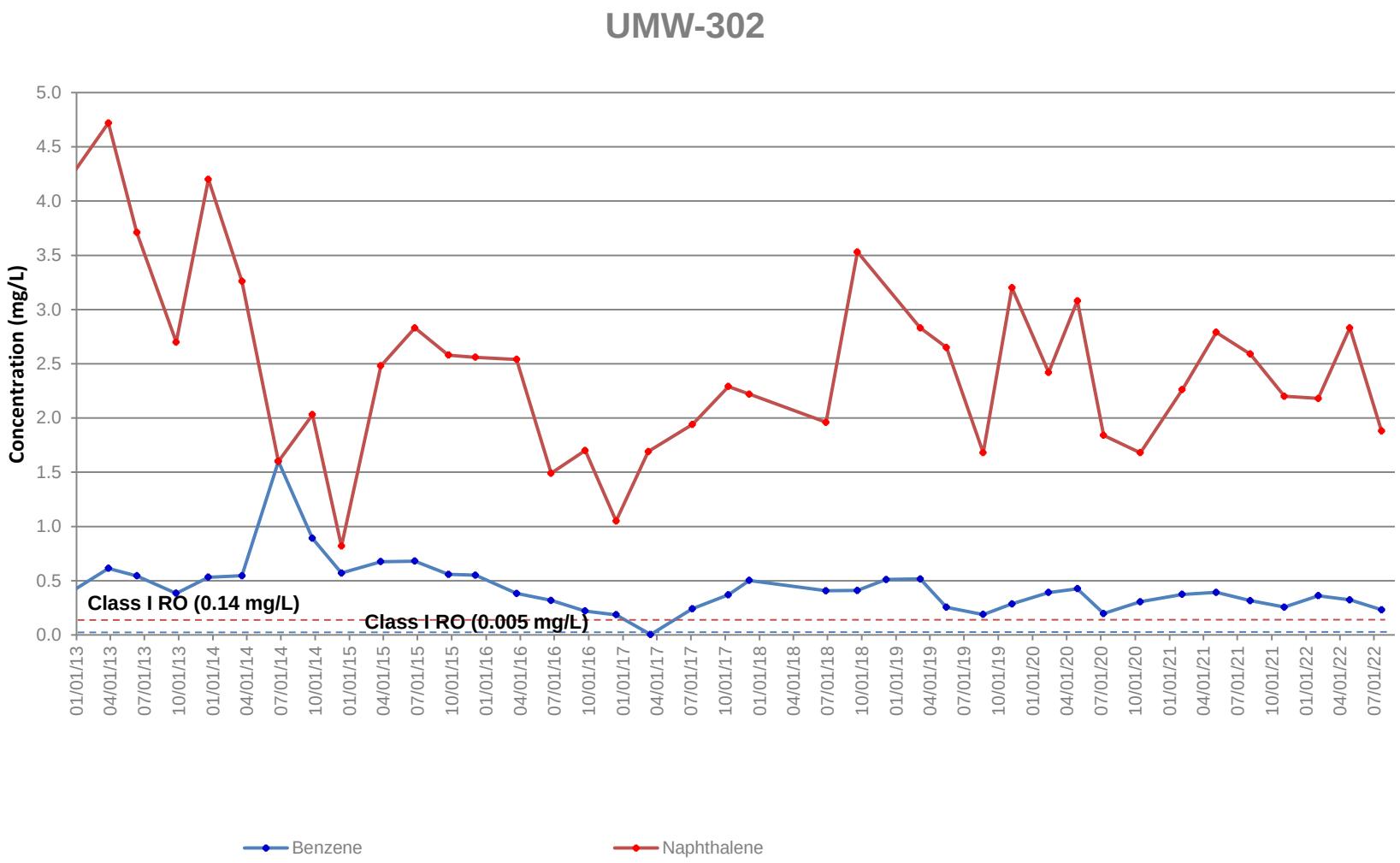


FIGURE 4C
Benzene and Naphthalene Concentration Trends in Wells Exceeding Groundwater ROs



Tables

TABLE 1
Summary of Field Parameters
October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Location ID	UMW-102	UMW-105	UMW-106R	UMW-109	UMW-111A	UMW-116	UMW-118	UMW-119	UMW-120
Sample Date	10/10/2022	10/12/2022	10/11/2022	10/11/2022	10/11/2022	10/11/2022	10/11/2022	10/10/2022	10/11/2022
Sample Type	N	N	N	N	N	N	N	N	N
Field Parameters									
pH	6.49	7.08	6.99	7.22	7.23	7.16	6.88	6.86	7.31
Temperature (C)	6.5	15.7	17	16.5	16.9	17.5	17.3	16.4	17
ORP (mV)	-120.4	-22.3	96.9	-118.3	124.4	108.5	-77.1	-148.9	-120.5
Dissolved Oxygen (mg/L)	1.92	1.78	0.6	0.81	4.38	1.13	1.19	0.47	0.76
Turbidity (NTU)	7.6	1.43	6.02	3.96	0.43	4.64	141	16.2	12.2

Notes:

N = Normal Environmental Sample
FD = Field Duplicate Sample
NA = Not analyzed
mg/L = milligrams per liter
mV = millivolts
pH units = pH units
deg C = degrees Celsius
NTU = nephelometric turbidity units

TABLE 1
Summary of Field Parameters
October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Location ID Sample Date Sample Type	UMW-121 10/12/2022 N	UMW-122 10/12/2022 N	UMW-123 10/11/2022 N	UMW-124 10/12/2022 N	UMW-125 10/12/2022 N	UMW-126 10/12/2022 N	UMW-127 10/12/2022 N	UMW-300 10/10/2022 N	UMW-301R 10/12/2022 N
Field Parameters									
pH	7.05	7.13	7.79	10.88	9.77	7.11	11.92	7	7.29
Temperature (C)	18.4	14.5	17.3	17.5	17.3	17.2	17.2	15.5	14.3
ORP (mV)	103.6	134.3	80	-213.6	6.9	-158	-284.2	-138.2	-160.3
Dissolved Oxygen (mg/L)	0.88	7.05	1.3	0.12	0.15	0.13	0.33	2.37	0.23
Turbidity (NTU)	4.65	7.56	1.75	5.71	0.84	10.5	5.04	0.82	2.21

Notes:

N = Normal Environmental Sample
FD = Field Duplicate Sample
NA = Not analyzed
mg/L = milligrams per liter
mV = millivolts
pH units = pH units
deg C = degrees Celsius
NTU = nephelometric turbidity units

TABLE 1
Summary of Field Parameters
October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Location ID Sample Date Sample Type	UMW-302 10/12/2022 N	UMW-304R 10/12/2022 N	UMW-305 10/11/2022 N	UMW-306 10/11/2022 N	UMW-307 10/11/2022 N	UMW-308 10/12/2022 N
Field Parameters						
pH	7.46	7.46	7.32	7.43	7.44	7.54
Temperature (C)	14	13.9	14.5	14.5	14.5	13.6
ORP (mV)	-162.5	-113.7	-147.2	NA	-171.3	-118.9
Dissolved Oxygen (mg/L)	0.28	0.24	0.36	0.19	0.19	0.22
Turbidity (NTU)	0.64	1.75	2.41	1.83	1.92	5.02

Notes:

N = Normal Environmental Sample
FD = Field Duplicate Sample
NA = Not analyzed
mg/L = milligrams per liter
mV = millivolts
pH units = pH units
deg C = degrees Celsius
NTU = nephelometric turbidity units

TABLE 2
Groundwater Elevation Data
October 10, 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Monitoring Well Number	Total Depth (feet)	Monitored Interval (feet BLS)	Pump Intake Depth (+) (feet BLS)	Elevation (feet NAVD88)		Measured 10/10/2022		Purge Vol (Gallons)	Flow Rate (mL/min)°	Sample Date
				Top of Casing (TOC)	Land Surface (LS)	WL Below TOC (feet)	Elevation (feet NAVD88)			
UMW-102	22	6.7000-22.0000	17	737.32	737.579559	7.1	730.22	3	330	10/10/2022
UMW-105	19.7	9.5000-19.7000	17	737.33	737.555496	7.88	729.45	2	250	10/12/2022
UMW-106R	17	7.0000-17.0000	15	737.18	737.385272	7.58	729.6	5	400	10/11/2022
UMW-109	20	10.0000-20.0000	18	735.11	735.447029	6.4	728.71	2.5	225	10/11/2022
UMW-111A	22.8	9.0000-22.8000	17	736.71	737.112704	8.87	727.84	3.15	221.4	10/11/2022
UMW-116	20	10.0000-20.0000	18	736.23	736.488025	6.5	729.73	4.5	390	10/11/2022
UMW-118	15	5.0000-15.0000	13	736.2	736.433706	7.45	728.75	1.5	304	10/11/2022
UMW-119	15	5.0000-15.0000	13	736.8	736.862463	6.72	730.08	1.75	326.7	10/10/2022
UMW-120	15	5.0000-15.0000	13	737.02	738.210435	6.6	730.42	2	400	10/11/2022
UMW-121	15	5.0000-15.0000	13	738.46	738.152474	8.02	730.44	2.75	300	10/12/2022
UMW-122	19.75	5.0000-15.0000	13	739.15	739.116272	14.1	725.05	0.5	200	10/12/2022
UMW-123	15.89	5.8900-15.8900	13.9	737.24	737.062309	8.49	728.75	2.25	328.6	10/11/2022
UMW-124 *	15.27	4.9700-15.0200	13.3	737.1	738.446404	5.29	731.81	3.5	338.9	10/12/2022
UMW-125 *	15.33	5.0600-15.1100	13.1	737.92	738.39239	6.15	731.77	4.5	333.3	10/12/2022
UMW-126 *	15.4	5.1300-15.1800	13.4	736.38	736.41293	4.41	731.97	2	320	10/12/2022
UMW-127 *	15.38	5.1100-15.1600	13.4	735.93	738.213491	3.93	732	2.25	280	10/12/2022
UMW-300	45	35.0000-45.0000	43	736.57	737.538397	27.6	708.97	3	320	10/10/2022
UMW-301R *	46.65	36.5000-46.0500	44	736.11	736.462706	27.4	708.71	3.25	360	10/12/2022
UMW-302	45	35.0000-45.0000	44	738.58	737.909488	29.88	708.7	2.5	400	10/12/2022
UMW-304R *	46.16	36.0100-45.5600	44	736.48	738.174127	27.7	708.78	4.5	500	10/12/2022
UMW-305	45	35.0000-45.0000	43	737.51	737.348431	29.08	708.43	2.75	400	10/11/2022
UMW-306	47	37.0000-47.0000	45	736.9	737.315246	28.6	708.3	3	360	10/11/2022
UMW-307	47	37.0000-47.0000	44	736.92	737.255382	28.71	708.21	3	360	10/11/2022
UMW-308 *	45.29	35.1400-44.6900	42.7	737.21	737.723112	16.64	720.57	3.75	512.5	10/12/2022

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
°	Flow rate at the time of sampling

TABLE 3
Summary of Analytical Results
October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group	Shallow Wells (Class II Groundwater Ingestion)									
			Location ID	UMW-102	UMW-105	UMW-106R	UMW-109	UMW-111A	UMW-116	UMW-118	UMW-119	UMW-120	UMW-121
			Sample Date	10/10/2022	10/12/2022	10/11/2022	10/11/2022	10/11/2022	10/11/2022	10/11/2022	10/10/2022	10/11/2022	10/12/2022
			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**										
BTEX, mg/L													
Benzene	0.005	0.025	**0.11**	< 0.0005	0.0002 J	0.0001 J	< 0.0005 UJ	< 0.0005 UJ	< 0.0005 UJ	< 0.0005 UJ	< 0.0005 UJ	< 0.0005 UJ	< 0.0005 UJ
Ethylbenzene	0.7	1	**0.37**	< 0.0020	0.0001	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	< 0.0020	0.0002	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Xylene, Total	10	10	30	< 0.0040	0.0005	< 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 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Acenaphthylene	0.42	2.1	NS	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000077	< 0.000100	< 0.000100	< 0.000100
Anthracene	2.1	10.5	NS	< 0.000300 UJ	< 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 UJ	< 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	< 0.000200 UJ	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.000081	< 0.000100	< 0.000100	< 0.000100
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200 UJ	< 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 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000100 UJ	< 0.000100
Chrysene	0.0015	0.0075	NS	< 0.000100 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100 UJ	< 0.000100	< 0.000100 UJ	< 0.000100
Dibenzo(a,h)anthracen	0.0003	0.0015	NS	< 0.000200 UJ	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Fluoranthene	0.28	1.4	NS	< 0.000300 UJ	< 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 UJ	< 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	< 0.000200 UJ	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Naphthalene	0.14	0.22	**0.075**	< 0.000400 UJ	< 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 UJ	< 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 UJ	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
General Chemistry, mg/L													
Total Cyanide	0.2	0.6	NS	< 0.005 UJ	0.045 J	0.006 J	0.021 J	< 0.005 UJ	< 0.005 UJ	0.033 J	0.025 J	0.002 J	0.086 J
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	0.0628	0.0519	0.0966	0.0846	0.0550	0.0853	0.143	0.0943	0.0355	0.0809
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	0.0276	< 0.0050	0.0091	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lead	0.0075	0.1	NS	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	0.0198	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Mercury	0.002	0.01	0.053	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium	0.05	0.05	NS	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Silver	0.05	NS	NS	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070

Notes:
Blue highlight = Exceeds RO for Class I Groundwater Ingestion
Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
< = Compound not detected at concentrations above the laboratory reporting detection
The laboratory reporting detection limit is shown.
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:
B = Reported value is < CRDL, but >= IDL.
BU = Compound was found in the blank and sample; analyte was analyzed but not detected.
H = Holding times exceeded
U = Nondetected
UJ = Non-detect, estimated report limit
J- = Detected Results are estimated with a low bias
R = RPD outside accepted recovery limits
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Ingestion
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Ingestion
GW INHALATION DIFFUSION & ADVECTION 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 3
Summary of Analytical Results
October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group	Shallow Wells (Class II Groundwater Ingestion)								Intermediate Wells (Class I Groundwater Ingestion)		
			Location ID	UMW-122	UMW-123	UMW-124	UMW-124	UMW-125	UMW-126	UMW-126	UMW-127	UMW-300	UMW-301R	UMW-302
			Sample Date	10/12/2022	10/11/2022	10/12/2022	10/12/2022	10/12/2022	10/12/2022	10/12/2022	10/12/2022	10/10/2022	10/12/2022	10/12/2022
			Sample Type	N	N	N	FD	N	N	FD	N	N	N	N
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES											
BTEX, mg/L														
Benzene	0.005	0.025	**0.11**	< 0.0005 UJ	< 0.0005 UJ	0.0526 J	0.0548	0.0109 J	0.0001 J	0.0002	0.0018 J	< 0.0005 UJ	< 0.0005	**0.178**
Ethylbenzene	0.7	1	**0.37**	< 0.0020	< 0.0020	0.0080	0.0074	0.0004	< 0.0020	< 0.0020	0.0002	< 0.0020	< 0.0020	**0.568**
Toluene	1	2.5	530	< 0.0020	< 0.0020	0.0448	0.0406	0.0004	< 0.0020	< 0.0020	0.0009	< 0.0020	< 0.0020	0.0050
Xylene, Total	10	10	30	< 0.0040	< 0.0040	0.0238	0.0218	0.0006	< 0.0040	< 0.0040	0.0009	< 0.0040	0.0004	0.168
PAH, mg/L														
Acenaphthene	0.42	2.1	NS	< 0.000100	< 0.000100	0.000433	0.000434 J	0.000074 J	< 0.000100	< 0.000100	0.000188 J	< 0.000100	0.00338 J	0.000589
Acenaphthylene	0.42	2.1	NS	< 0.000100	< 0.000100	0.000257	0.000246 J	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	0.00309 J	0.000365
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	< 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	< 0.000100
Benzo(a)pyrene	0.0002	0.002	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.000100 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Chrysene	0.0015	0.0075	NS	< 0.000100 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100
Dibenzo(a,h)anthracen	0.0003	0.0015	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
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	< 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	0.00017 J	< 0.000200
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Naphthalene	0.14	0.22	**0.075**	< 0.000400	< 0.000400	0.0418	0.0369 J	0.00123 J	< 0.000400	< 0.000400	0.00135 J	< 0.000400	< 0.000400	**2.05**
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	< 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	< 0.000200
General Chemistry, mg/L														
Total Cyanide	0.2	0.6	NS	0.007 J	0.007 J	0.007 J	0.007 J	0.032 J	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	< 0.005 UJ	0.106 J
Metals, mg/L														
Arsenic	0.05	0.2	NS	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250	< 0.0250
Barium	2	2	NS	0.0565	0.0233	0.0325	0.0327	0.0244	0.0265	0.0263	0.130	0.0934	0.0709	0.0554
Cadmium	0.005	0.05	NS	< 0.0020	< 0.0020	< 0.0020	< 0.0020	0.0008	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Chromium	0.1	1	NS	0.0028	< 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	0.0154	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075
Mercury	0.002	0.01	0.053	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Selenium	0.05	0.05	NS	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Silver	0.05	NS	NS	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070

Notes:
Blue highlight = Exceeds RO for Class I Groundwater Ingestion
Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
< = Compound not detected at concentrations above the laboratory reporting detection
The laboratory reporting detection limit is shown.
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:
B = Reported value is < CRDL, but >= IDL.
BU = Compound was found in the blank and sample; analyte was analyzed but not detected
H = Holding times exceeded
U = Nondetected
UJ = Non-detect, estimated report limit
J- = Detected Results are estimated with a low bias
R = RPD outside accepted recovery limits
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Ingest
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Inge
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater Inha
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
Summary of Analytical Results
October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

			Location Group	Intermediate Wells (Class I Groundwater Ingestion)						Field Quality Control		
			Location ID	UMW-302	UMW-304R	UMW-305	UMW-306	UMW-307	UMW-308	Equipment Blank	Equipment Blank	Trip Blank
			Sample Date	10/12/2022	10/12/2022	10/12/2022	10/11/2022	10/11/2022	10/12/2022	10/10/2022	10/12/2022	10/13/2022
			Sample Type	FD	N	N	N	N	N	EB	EB	TB
Parameter/Analyte	CLASS I GROUNDWATER INGESTION	CLASS II GROUNDWATER INGESTION	GW INHALATION DIFFUSION & ADVECTION RES									
BTEX, mg/L												
Benzene	0.005	0.025	**0.11**	**0.207**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ethylbenzene	0.7	1	**0.37**	**0.579**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Toluene	1	2.5	530	0.0042	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Xylene, Total	10	10	30	0.206	< 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	< 0.00500	0.000193 J	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200 R	NA
Acenaphthylene	0.42	2.1	NS	< 0.00500	0.000407 J	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200 R	NA
Anthracene	2.1	10.5	NS	< 0.0150	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000600 R	NA
Benzo(a)anthracene	0.00013	0.00065	NS	< 0.00500	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200 R	NA
Benzo(a)pyrene	0.0002	0.002	NS	< 0.0100	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000400 R	NA
Benzo(b)fluoranthene	0.00018	0.0009	NS	< 0.00500 UJ	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000100	< 0.000200 R	NA
Benzo(g,h,i)perylene	0.21	1.05	NS	< 0.0100	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000400 R	NA
Benzo(k)fluoranthene	0.00017	0.00085	NS	< 0.00500	< 0.000100	< 0.000100	< 0.000100 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000200 R	NA
Chrysene	0.0015	0.0075	NS	< 0.00500 UJ	< 0.000100	< 0.000100	< 0.000100 UJ	< 0.000100 UJ	< 0.000100	< 0.000100	< 0.000200 R	NA
Dibenzo(a,h)anthracen	0.0003	0.0015	NS	< 0.0100	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000400 R	NA
Fluoranthene	0.28	1.4	NS	< 0.0150	< 0.000300	0.000323	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000600 R	NA
Fluorene	0.28	1.4	NS	< 0.0100	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000400 R	NA
Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NS	< 0.0100	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000400 R	NA
Naphthalene	0.14	0.22	**0.075**	**2.44 J**	< 0.000400	0.00454 J-	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000800 R	NA
Phenanthrene	0.21	1.05	NS	< 0.0300	< 0.000600	0.00058	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.00120 R	NA
Pyrene	0.21	1.05	NS	< 0.0100	< 0.000200	0.000210	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000400 R	NA
General Chemistry, mg/L												
Total Cyanide	0.2	0.6	NS	0.103 J	0.003 J	0.008 J	0.012 J	0.030 J	0.013 J	< 0.005 R	< 0.005 R	NA
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	NA
Barium	2	2	NS	0.0546	0.0781	0.101	0.109	0.112	0.119	< 0.0025	< 0.0025	NA
Cadmium	0.005	0.05	NS	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	NA
Chromium	0.1	1	NS	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA
Lead	0.0075	0.1	NS	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	NA
Mercury	0.002	0.01	0.053	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	NA
Selenium	0.05	0.05	NS	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	NA
Silver	0.05	NS	NS	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	NA

Notes:
Blue highlight = Exceeds RO for Class I Groundwater Ingestion
Green highlight = Exceeds RO for Class II Groundwater Ingestion
Bold = Exceeds RO for Groundwater Inhalation - Diffusion and Advection for Residential
< = Compound not detected at concentrations above the laboratory reporting detection
The laboratory reporting detection limit is shown.
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:
B = Reported value is < CRDL, but >= IDL.
BU = Compound was found in the blank and sample; analyte was analyzed but not detected
H = Holding times exceeded
U = Nondetected
UJ = Non-detect, estimated report limit
J- = Detected Results are estimated with a low bias
R = RPD outside accepted recovery limits
All analyses performed by TekLab.
CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I Groundwater Ingest
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II Groundwater Inge
GW INHALATION DIFFUSION & ADVECTION RES = IEPA TACO Tier 1 Groundwater Inha
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 4
Analytical Results by Parameter
October 2020 to October 2022
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	Sample Date	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	Benzo(k)fluoranthene mg/L	Chrysene mg/L
Shallow Wells (Class II Groundwater Ingestion)														
UMW-102	10/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/01/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	01/31/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/19/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/10/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100 UJ	< 0.000100 UJ	< 0.000300 UJ	< 0.000100 UJ	< 0.000200 UJ	< 0.000100 UJ	< 0.000200 UJ	< 0.000100 UJ	< 0.000100 UJ
UMW-105	10/14/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	0.0002 J	0.0001	0.0002	0.0005	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-106R	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	0.0001 J	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-107R	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-108	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-109	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/19/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-111A	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	01/31/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/19/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-116	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100

TABLE 4
Analytical Results by Parameter
October 2020 to October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Well ID	Sample Date	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	Total Cyanide mg/L
Shallow Wells (Class II Groundwater Inges									
UMW-102	10/12/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	0.000259	< 0.005
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	05/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/01/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	01/31/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/19/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/10/2022	< 0.000200 UJ	< 0.000300 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000400 UJ	< 0.000600 UJ	< 0.000200 UJ	< 0.005 UJ
UMW-105	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.043
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.036 J
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.048
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.049
	11/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.042
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.039
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.048 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.046
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.045 J
UMW-106R	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.026
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.016 J
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.014
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.028
	11/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.011
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.014
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.017 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.021
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.006 J
UMW-107R	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.391
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.324 J
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.339
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.316
	11/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.271
UMW-108	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.029
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.024 J
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.025
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.028
	11/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.027
UMW-109	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.032
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.023 J
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.009
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.024
	11/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.028
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.017
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.013 J
	07/19/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.020
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.021 J
UMW-111A	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	01/31/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/19/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
UMW-116	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ

TABLE 4
Analytical Results by Parameter
October 2020 to October 2022
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	Sample Date	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	Benzo(k)fluoranthene mg/L	Chrysene mg/L
UMW-117	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
UMW-118	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	0.000287	< 0.000300	0.000184	0.000380	0.000389	0.000227	0.000140	0.000163
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/19/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	0.000333	< 0.000300	0.000271	0.000650	0.000748	0.000320	0.000222	0.000300
	10/11/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	0.000077	< 0.000300	< 0.000100	< 0.000200	0.000081	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-119	10/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/01/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	01/31/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/19/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/10/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-120	10/12/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	01/31/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/19/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-121	10/14/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-122	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-123	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-124	10/14/2020	0.0841	0.0109	0.0590	0.0308	0.000579	0.000344	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	0.0526	0.0062	0.0350	0.0186	0.000341	0.000174	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/06/2021	0.0912	0.0134	0.0776	0.0395	0.000465	0.000316	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	0.0920	0.0119	0.0707	0.0345	0.000570	0.000373	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	0.104	0.0159	0.0914	0.0483	0.000532	0.000459	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/02/2022	0.0974	0.0131	0.0802	0.0400	0.000443	0.000301	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/27/2022	0.0494	0.0050	0.0289	0.0151	0.000340	0.000134	< 0.000300	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000200	< 0.000100	< 0.000100
	07/21/2022	0.0563	0.0064	0.0351	0.0187	0.000377	0.000144	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	0.0526 J	0.0080	0.0448	0.0238	0.000433	0.000257	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100

TABLE 4
Analytical Results by Parameter
October 2020 to October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Well ID	Sample Date	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	Total Cyanide mg/L
UMW-117	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	< 0.005
UMW-118	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	0.000241	0.038
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.027 J
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.022
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	0.00107	0.031
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	0.028
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.024
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.019 J
	07/19/2022	< 0.000200	0.000493	< 0.000200	0.000314	< 0.000400	< 0.000600	0.00262	0.034
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.033 J
UMW-119	10/12/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.033
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.027 J
	05/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.022
	08/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.034
	11/01/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	0.026
	01/31/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.030
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.028 J
	07/19/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.033
	10/10/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.025 J
UMW-120	10/12/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	05/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	< 0.005
	01/31/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/19/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.002 J
UMW-121	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.125
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.080
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.070
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.054
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	0.047
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.060
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.035 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.070
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.086 J
UMW-122	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.014
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.018 J
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.008
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.007
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	0.007
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.007
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.009 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.010
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.007 J
UMW-123	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.009
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.007 J
UMW-124	10/14/2020	< 0.000100	< 0.000300	0.000244	< 0.000100	0.0452	< 0.000600	< 0.000200	0.013
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.0265	< 0.000600	< 0.000200	0.008
	05/06/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.0534	< 0.000600	< 0.000200	< 0.005
	08/04/2021	< 0.000200	< 0.000300	0.000209	< 0.000200	0.0661	< 0.000600	< 0.000200	0.012
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	0.0620	< 0.000600	< 0.000200	0.012
	02/02/2022	< 0.000200	< 0.000300	0.000203	< 0.000200	0.0498	< 0.000600	< 0.000200	0.014
	04/27/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.0233	< 0.000600	< 0.000200	0.006
	07/21/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.0212	< 0.000600	< 0.000200	0.006
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.0418	< 0.000600	< 0.000200	0.007 J

TABLE 4
Analytical Results by Parameter
October 2020 to October 2022
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	Sample Date	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	Benzo(k)fluoranthene mg/L	Chrysene mg/L
UMW-125	10/14/2020	0.0057	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	0.0080	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	0.0008	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	0.0073	0.0004	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	0.0119	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	0.0109 J	0.0004	0.0004	0.0006	0.000074 J	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-126	10/14/2020	0.0186	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	0.0033	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	0.0778	< 0.0020	0.0045	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	0.0803	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	0.0193	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/02/2022	0.0116	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/27/2022	0.0068	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000200	< 0.000100	< 0.000100
	07/21/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	0.0001 J	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-127	10/14/2020	0.0029	< 0.0020	< 0.0020	< 0.0040	0.000236	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	0.0012	< 0.0020	< 0.0020	< 0.0040	0.000173	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	0.0012	< 0.0020	< 0.0020	< 0.0040	0.000187	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	0.0014	< 0.0020	< 0.0020	< 0.0040	0.000194	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	0.0014	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000149	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	0.0006	0.0002	0.0006	0.0008	0.000201	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	0.0020	< 0.0020	< 0.0020	< 0.0040	< 0.000100 UJ	< 0.000100 UJ	< 0.000300 UJ	< 0.000100 UJ	< 0.000200 UJ	< 0.000100 UJ	< 0.000200 UJ	< 0.000100 UJ	< 0.000100 UJ
	10/12/2022	0.0018 J	0.0002	0.0009	0.0009	0.000188 J	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
Intermediate Wells (Class I Groundwater Ingestion)														
UMW-300	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	01/31/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/25/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/19/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/10/2022	< 0.0005 UJ	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-301R	10/14/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00300	0.00304	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00291	0.00301	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00308	0.00264	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00346	0.00337	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00321	0.00307	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00349	0.00355	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	0.0005	0.00390	0.00300	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.00272	0.00243	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	< 0.0005	< 0.0020	< 0.0020	0.0004	0.00338 J	0.00309 J	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-302	10/14/2020	**0.306**	**0.751**	0.0046	0.207	0.000444	0.000381	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	**0.374**	**0.786**	< 0.0200	0.223	0.000635	0.000450	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	**0.392**	**0.916**	< 0.0200	0.287	0.000776	0.000501	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	**0.316**	**0.804**	< 0.0200	0.205	0.000691	0.000585	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	**0.256**	**0.763**	< 0.0200	0.202	0.000710	0.000500	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/02/2022	**0.362**	**0.76**	< 0.0200	0.208	0.000714	0.000536	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/27/2022	**0.323**	**0.757**	0.0057	0.215	0.000329 J	0.000287	< 0.000300	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000200	< 0.000100	< 0.000100
	07/21/2022	**0.232**	**0.563**	< 0.0200	0.164	0.000718	0.000436	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	**0.178**	**0.568**	0.0050	0.168	0.000589	0.000365	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-303	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	0.000475	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
UMW-304R	10/14/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000241	0.000525	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000284	0.000612	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000418	0.000740	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000329	0.000834	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000321	0.000691	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000283	0.000673	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	0.0001	< 0.0020	< 0.0040	0.000377	0.000715	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000190	0.000373	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000193 J	0.000407 J	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100

TABLE 4
Analytical Results by Parameter
October 2020 to October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Well ID	Sample Date	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	Total Cyanide mg/L
UMW-125	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.025
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000878 U	< 0.000600	< 0.000200	0.024
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.038
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.041
	11/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.092
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.064
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.000910	< 0.000600	< 0.000200	0.053 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.000777	< 0.000600	< 0.000200	0.031
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.00123 J	< 0.000600	< 0.000200	0.032 J
UMW-126	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000498 U	< 0.000600	< 0.000200	< 0.005
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000455 U	< 0.000600	< 0.000200	< 0.005
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.000928	< 0.000600	< 0.000200	< 0.005
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/02/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/27/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/21/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
UMW-127	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.00152 U	< 0.000600	< 0.000200	< 0.005
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.00150 U	< 0.000600	< 0.000200	< 0.005
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.00129 U	< 0.000600	< 0.000200	< 0.005
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.00201	< 0.000600	< 0.000200	< 0.005
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.00152 U	< 0.000600	< 0.000200	< 0.005
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.007
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.00038	< 0.000600	< 0.000200	< 0.005
	07/20/2022	< 0.000200 UJ	< 0.000300 UJ	< 0.000200 UJ	< 0.000200 UJ	< 0.000400 UJ	< 0.000600 UJ	< 0.000200 UJ	< 0.005
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.00135 J	< 0.000600	< 0.000200	< 0.005 UJ
Intermediate Wells (Class I Groundwater Ir									
UMW-300	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	05/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	< 0.005
	01/31/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/25/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/19/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/10/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
UMW-301R	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	05/05/2021	< 0.000200	< 0.000300	0.000208	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	0.00936 J+	< 0.000600	< 0.000200	< 0.005
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	04/26/2022	< 0.000200	< 0.000300	0.000221	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/12/2022	< 0.000200	< 0.000300	0.00017 J	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005 UJ
UMW-302	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	**1.68**	< 0.000600	< 0.000200	0.105
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	**2.26**	< 0.000600	< 0.000200	0.175 J
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	**2.79**	< 0.000600	< 0.000200	0.154 J
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	**2.59**	< 0.000600	< 0.000200	0.073
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	**2.20**	< 0.000600	< 0.000200	0.099
	02/02/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	**2.18**	< 0.000600	< 0.000200	0.091
	04/27/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	**2.83**	< 0.000600	< 0.000200	0.119 J
	07/21/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	**1.88**	< 0.000600	< 0.000200	0.117
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	**2.05**	< 0.000600	< 0.000200	0.106 J
UMW-303	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.00182 U	< 0.000600	< 0.000200	< 0.005
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000419 U	< 0.000600	< 0.000200	< 0.005
	05/04/2021	< 0.000200	< 0.000300	0.000280	< 0.000200	0.00548	0.00298	0.000316	< 0.005
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.00256	< 0.000600	< 0.000200	< 0.005
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.00123 U	< 0.000600	< 0.000200	< 0.005
UMW-304R	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	< 0.005
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.00353	< 0.000600	< 0.000200	< 0.005
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.003 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.003 J

TABLE 4
Analytical Results by Parameter
October 2020 to October 2022
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	Sample Date	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	Benzo(k)fluoranthene mg/L	Chrysene mg/L
UMW-305	10/14/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
UMW-306	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000105	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-307	10/13/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/02/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/01/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/26/2022	0.0002	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/20/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/11/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100 UJ	< 0.000100 UJ
UMW-308	10/14/2020	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000100	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	02/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	05/05/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	08/04/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	11/03/2021	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200 UJ	< 0.000100 UJ	< 0.000100
	02/02/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	04/27/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	0.000075	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	07/21/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100
	10/12/2022	< 0.0005	< 0.0020	< 0.0020	< 0.0040	< 0.000100	< 0.000100	< 0.000300	< 0.000100	< 0.000200	< 0.000100	< 0.000200	< 0.000100	< 0.000100

TABLE 4
Analytical Results by Parameter
October 2020 to October 2022
Ameren - Champaign FMGP Site
Champaign, Illinois

Well ID	Sample Date	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	Total Cyanide mg/L
UMW-305	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.008
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.006
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.010
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.011
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	0.008
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.010
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.009 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.008
	10/12/2022	< 0.000200	0.000323	< 0.000200	< 0.000200	0.00454 J-	0.00058	0.000210	0.008 J
UMW-306	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.018
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.009
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.00111 U	< 0.000600	< 0.000200	0.008
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.012
	11/02/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	0.012
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.014
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.014
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.013
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.012 J
UMW-307	10/13/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.034
	02/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.032 J
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.048
	08/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.069
	11/02/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.050
	02/01/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.042
	04/26/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.049 J
	07/20/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.031
	10/11/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.030 J
UMW-308	10/14/2020	< 0.000100	< 0.000300	< 0.000200	< 0.000100	< 0.000400	< 0.000600	< 0.000200	0.010
	02/03/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.007
	05/05/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	< 0.005
	08/04/2021	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.017
	11/03/2021	< 0.000200 UJ	< 0.000300	< 0.000200	< 0.000200 UJ	< 0.000400	< 0.000600	< 0.000200	0.010
	02/02/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.011
	04/27/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.016 J
	07/21/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	0.00251	< 0.000600	< 0.000200	0.016
	10/12/2022	< 0.000200	< 0.000300	< 0.000200	< 0.000200	< 0.000400	< 0.000600	< 0.000200	0.013 J

< = Compound not detected at concentrations above the laboratory reporting detection limit.
The laboratory reporting detection limit is shown.
mg/L = milligrams per liter

Qualifiers:
U = Nondetected
J = The analyte was positively identified; associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The concentration of the sample is considered to be biased high, as the associated QC results exceed the upper control limits
UJ = Analyte was analyzed for, but not detected. The detection limit is a quantitative estimate.
J- = The concentration of the sample is considered to be biased low, as the associated QC results are outside the lower control limits
All analyses performed by Teklab.

CLASS I GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS I GROUNDWATER INGESTION
CLASS II GROUNDWATER INGESTION = IEPA TACO Tier 1 CLASS II GROUNDWATER INGESTION
GW INHALATION DIFFUSION & ADVECTION RESIDENTIAL = IEPA TACO Tier 1 GW INHALATION DIFFUSION & ADVECTION RESIDENTIAL
Non-TACO Class I and Class II Groundwater Objectives applied for Acenaphthylene, Benzo(g,h,i)perylene, and Phenanthrene. (Revision Date 3/31/2016)

Attachment 1

Laboratory Analytical Reports and Data Validation Summary

October 25, 2022

Jarred Schmidt
ERM
1968 Craig Road
Suite 100
St. Louis, MO 63146
TEL: (314) 733-4490
FAX:

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Champaign GW **WorkOrder:** 22100870

Dear Jarred Schmidt:

TEKLAB, INC received 30 samples on 10/13/2022 12:45:00 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
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: ERM
Client Project: Champaign GW

Work Order: 22100870
Report Date: 25-Oct-22

This reporting package includes the following:

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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
NC	Data is not acceptable for compliance purposes
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)

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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: 22100870
Report Date: 25-Oct-22

Cooler Receipt Temp: 2.8 °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:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-001 **Client Sample ID:** UMW-102-WG-20221010

Matrix: GROUNDWATER **Collection Date:** 10/10/2022 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 12:43	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 16:16	198852
Barium	NELAP	0.0007	0.0025		**0.0628**	mg/L	1	10/19/2022 16:16	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 16:16	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 16:16	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 16:16	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 16:16	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 16:16	198852
CCV for As recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 17:04	198901
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Acenaphthylene	NELAP	).000050	0.000100	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Anthracene	NELAP	).000200	0.000300	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Benzo(a)anthracene	NELAP	).000070	0.000100	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Benzo(a)pyrene	NELAP	).000110	0.000200	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Benzo(b)fluoranthene	NELAP	).000070	0.000100	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Benzo(g,h,i)perylene	NELAP	).000120	0.000200	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Benzo(k)fluoranthene	NELAP	).000050	0.000100	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Chrysene	NELAP	).000050	0.000100	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Fluoranthene	NELAP	).000270	0.000300	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Fluorene	NELAP	).000170	0.000200	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Naphthalene	NELAP	).000340	0.000400	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Phenanthrene	NELAP	).000530	0.000600	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Pyrene	NELAP	).000180	0.000200	H	**ND**	mg/L	1	10/20/2022 23:32	198955
Surr: 2-Fluorobiphenyl	*	0	21.4-142	H	**50.3**	%REC	1	10/20/2022 23:32	198955
Surr: Nitrobenzene-d5	*	0	15-163	H	**45.6**	%REC	1	10/20/2022 23:32	198955
Surr: p-Terphenyl-d14	*	0	10-173	H	**69.6**	%REC	1	10/20/2022 23:32	198955
Sample required re-extraction out of hold time.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 12:40	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 12:40	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 12:40	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 12:40	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**100.7**	%REC	1	10/14/2022 12:40	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.4**	%REC	1	10/14/2022 12:40	198791
Surr: Dibromofluoromethane	*	0	80-120		**107.7**	%REC	1	10/14/2022 12:40	198791
Surr: Toluene-d8	*	0	80-120		**94.6**	%REC	1	10/14/2022 12:40	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-002 **Client Sample ID:** UMW-105-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 9:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.045**	mg/L	1	10/17/2022 13:09	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 16:39	198852
Barium	NELAP	0.0007	0.0025		**0.0519**	mg/L	1	10/19/2022 16:39	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 16:39	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 16:39	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 16:39	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 16:39	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 16:39	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 17:06	198901
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 21:38	198941
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 21:38	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 21:38	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 21:38	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 21:38	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 21:38	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 21:38	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 21:38	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 21:38	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 21:38	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 21:38	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 21:38	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 21:38	198941
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/19/2022 21:38	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 21:38	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 21:38	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**73.2**	%REC	1	10/19/2022 21:38	198941
Surr: Nitrobenzene-d5	*	0	15-163		**66.2**	%REC	1	10/19/2022 21:38	198941
Surr: p-Terphenyl-d14	*	0	10-173		**96.6**	%REC	1	10/19/2022 21:38	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5	J	**0.2**	µg/L	1	10/14/2022 1:09	198786
Ethylbenzene	NELAP	0.1	2.0	J	**0.1**	µg/L	1	10/14/2022 1:09	198786
Toluene	NELAP	0.1	2.0	J	**0.2**	µg/L	1	10/14/2022 1:09	198786
Xylenes, Total	NELAP	0.3	4.0	J	**0.5**	µg/L	1	10/14/2022 1:09	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**89.8**	%REC	1	10/14/2022 1:09	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.1**	%REC	1	10/14/2022 1:09	198786
Surr: Dibromofluoromethane	*	0	80-120		**102.4**	%REC	1	10/14/2022 1:09	198786
Surr: Toluene-d8	*	0	80-120		**99.0**	%REC	1	10/14/2022 1:09	198786
Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.									

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-003 **Client Sample ID:** UMW-106R-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 15:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.006**	mg/L	1	10/17/2022 13:13	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 16:20	198852
Barium	NELAP	0.0007	0.0025		**0.0966**	mg/L	1	10/19/2022 16:20	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 16:20	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 16:20	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 16:20	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 16:20	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 16:20	198852
CCV for As recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 17:08	198901
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 16:18	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 16:18	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/18/2022 16:18	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 16:18	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/18/2022 16:18	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 16:18	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 16:18	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 16:18	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 16:18	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 16:18	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/18/2022 16:18	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/18/2022 16:18	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/18/2022 16:18	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/18/2022 16:18	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/18/2022 16:18	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/18/2022 16:18	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**74.5**	%REC	1	10/18/2022 16:18	198882
Surr: Nitrobenzene-d5	*	0	15-163		**68.1**	%REC	1	10/18/2022 16:18	198882
Surr: p-Terphenyl-d14	*	0	10-173		**124.0**	%REC	1	10/18/2022 16:18	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5	J	**0.1**	µg/L	1	10/14/2022 1:34	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 1:34	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 1:34	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 1:34	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**90.6**	%REC	1	10/14/2022 1:34	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.3**	%REC	1	10/14/2022 1:34	198786
Surr: Dibromofluoromethane	*	0	80-120		**104.1**	%REC	1	10/14/2022 1:34	198786
Surr: Toluene-d8	*	0	80-120		**97.9**	%REC	1	10/14/2022 1:34	198786
Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.									

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-004 **Client Sample ID:** UMW-109-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 11:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.021**	mg/L	1	10/17/2022 13:18	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 16:50	198852
Barium	NELAP	0.0007	0.0025		**0.0846**	mg/L	1	10/19/2022 16:50	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 16:50	198852
Chromium	NELAP	0.0028	0.0050		**0.0276**	mg/L	1	10/19/2022 16:50	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 16:50	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 16:50	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 16:50	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 17:19	198901
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 18:16	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 18:16	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/18/2022 18:16	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 18:16	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/18/2022 18:16	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 18:16	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 18:16	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 18:16	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 18:16	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 18:16	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/18/2022 18:16	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/18/2022 18:16	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/18/2022 18:16	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/18/2022 18:16	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/18/2022 18:16	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/18/2022 18:16	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**74.8**	%REC	1	10/18/2022 18:16	198882
Surr: Nitrobenzene-d5	*	0	15-163		**67.9**	%REC	1	10/18/2022 18:16	198882
Surr: p-Terphenyl-d14	*	0	10-173		**121.3**	%REC	1	10/18/2022 18:16	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 1:58	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 1:58	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 1:58	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 1:58	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**89.4**	%REC	1	10/14/2022 1:58	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.0**	%REC	1	10/14/2022 1:58	198786
Surr: Dibromofluoromethane	*	0	80-120		**102.7**	%REC	1	10/14/2022 1:58	198786
Surr: Toluene-d8	*	0	80-120		**98.3**	%REC	1	10/14/2022 1:58	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-005 **Client Sample ID:** UMW-111A-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 13:22	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 16:53	198852
Barium	NELAP	0.0007	0.0025		**0.0550**	mg/L	1	10/19/2022 16:53	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 16:53	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 16:53	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 16:53	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 16:53	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 16:53	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 17:22	198901
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 18:56	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 18:56	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/18/2022 18:56	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 18:56	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/18/2022 18:56	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 18:56	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 18:56	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 18:56	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 18:56	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 18:56	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/18/2022 18:56	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/18/2022 18:56	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/18/2022 18:56	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/18/2022 18:56	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/18/2022 18:56	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/18/2022 18:56	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**78.5**	%REC	1	10/18/2022 18:56	198882
Surr: Nitrobenzene-d5	*	0	15-163		**73.6**	%REC	1	10/18/2022 18:56	198882
Surr: p-Terphenyl-d14	*	0	10-173		**129.2**	%REC	1	10/18/2022 18:56	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 2:22	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 2:22	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 2:22	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 2:22	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**90.9**	%REC	1	10/14/2022 2:22	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**91.9**	%REC	1	10/14/2022 2:22	198786
Surr: Dibromofluoromethane	*	0	80-120		**103.4**	%REC	1	10/14/2022 2:22	198786
Surr: Toluene-d8	*	0	80-120		**97.8**	%REC	1	10/14/2022 2:22	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-006 **Client Sample ID:** UMW-116-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 13:26	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 16:57	198852
Barium	NELAP	0.0007	0.0025		**0.0853**	mg/L	1	10/19/2022 16:57	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 16:57	198852
Chromium	NELAP	0.0028	0.0050		**0.0091**	mg/L	1	10/19/2022 16:57	198852
Lead	NELAP	0.0040	0.0075		**0.0198**	mg/L	1	10/19/2022 16:57	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 16:57	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 16:57	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 17:24	198901
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 19:35	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 19:35	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/18/2022 19:35	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 19:35	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/18/2022 19:35	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 19:35	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 19:35	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 19:35	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 19:35	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 19:35	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/18/2022 19:35	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/18/2022 19:35	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/18/2022 19:35	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/18/2022 19:35	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/18/2022 19:35	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/18/2022 19:35	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**80.9**	%REC	1	10/18/2022 19:35	198882
Surr: Nitrobenzene-d5	*	0	15-163		**76.3**	%REC	1	10/18/2022 19:35	198882
Surr: p-Terphenyl-d14	*	0	10-173		**125.7**	%REC	1	10/18/2022 19:35	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 2:47	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 2:47	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 2:47	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 2:47	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**88.9**	%REC	1	10/14/2022 2:47	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.5**	%REC	1	10/14/2022 2:47	198786
Surr: Dibromofluoromethane	*	0	80-120		**103.1**	%REC	1	10/14/2022 2:47	198786
Surr: Toluene-d8	*	0	80-120		**97.4**	%REC	1	10/14/2022 2:47	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-007 **Client Sample ID:** UMW-118-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 12:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.033**	mg/L	1	10/17/2022 12:04	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:01	198852
Barium	NELAP	0.0007	0.0025		**0.143**	mg/L	1	10/19/2022 17:01	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 17:01	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 17:01	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 17:01	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:01	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:01	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 17:26	198901
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 9:52	198882
Acenaphthylene	NELAP	).000050	0.00010	J	**0.000077**	mg/L	1	10/19/2022 9:52	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 9:52	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 9:52	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 9:52	198882
Benzo(b)fluoranthene	NELAP	).000070	0.00010	J	**0.000081**	mg/L	1	10/19/2022 9:52	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 9:52	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 9:52	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 9:52	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 9:52	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 9:52	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 9:52	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 9:52	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/19/2022 9:52	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 9:52	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 9:52	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**74.5**	%REC	1	10/19/2022 9:52	198882
Surr: Nitrobenzene-d5	*	0	15-163		**71.6**	%REC	1	10/19/2022 9:52	198882
Surr: p-Terphenyl-d14	*	0	10-173		**122.3**	%REC	1	10/19/2022 9:52	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 3:11	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 3:11	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 3:11	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 3:11	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**89.6**	%REC	1	10/14/2022 3:11	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.2**	%REC	1	10/14/2022 3:11	198786
Surr: Dibromofluoromethane	*	0	80-120		**103.9**	%REC	1	10/14/2022 3:11	198786
Surr: Toluene-d8	*	0	80-120		**98.5**	%REC	1	10/14/2022 3:11	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-008 **Client Sample ID:** UMW-119-WG-20221010

Matrix: GROUNDWATER **Collection Date:** 10/10/2022 15:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.025**	mg/L	1	10/17/2022 13:31	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:04	198852
Barium	NELAP	0.0007	0.0025		**0.0943**	mg/L	1	10/19/2022 17:04	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 17:04	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 17:04	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 17:04	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:04	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:04	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 18:23	198902
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 16:58	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 16:58	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/18/2022 16:58	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 16:58	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/18/2022 16:58	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 16:58	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 16:58	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 16:58	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 16:58	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 16:58	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/18/2022 16:58	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/18/2022 16:58	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/18/2022 16:58	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/18/2022 16:58	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/18/2022 16:58	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/18/2022 16:58	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**81.9**	%REC	1	10/18/2022 16:58	198882
Surr: Nitrobenzene-d5	*	0	15-163		**78.1**	%REC	1	10/18/2022 16:58	198882
Surr: p-Terphenyl-d14	*	0	10-173		**127.8**	%REC	1	10/18/2022 16:58	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 3:35	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 3:35	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 3:35	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 3:35	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**91.1**	%REC	1	10/14/2022 3:35	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.9**	%REC	1	10/14/2022 3:35	198786
Surr: Dibromofluoromethane	*	0	80-120		**104.0**	%REC	1	10/14/2022 3:35	198786
Surr: Toluene-d8	*	0	80-120		**97.6**	%REC	1	10/14/2022 3:35	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-009 **Client Sample ID:** UMW-120-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 9:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005	J	**0.002**	mg/L	1	10/17/2022 13:35	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:08	198852
Barium	NELAP	0.0007	0.0025		**0.0355**	mg/L	1	10/19/2022 17:08	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 17:08	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 17:08	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 17:08	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:08	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:08	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 18:30	198902
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 10:31	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 10:31	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 10:31	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 10:31	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 10:31	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 10:31	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 10:31	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 10:31	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 10:31	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 10:31	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 10:31	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 10:31	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 10:31	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/19/2022 10:31	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 10:31	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 10:31	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142	S	**151.7**	%REC	1	10/19/2022 10:31	198882
Surr: Nitrobenzene-d5	*	0	15-163		**143.9**	%REC	1	10/19/2022 10:31	198882
Surr: p-Terphenyl-d14	*	0	10-173	S	**223.1**	%REC	1	10/19/2022 10:31	198882

Surrogate recovery is outside control limits due to matrix interference.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 4:00	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 4:00	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 4:00	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 4:00	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**89.8**	%REC	1	10/14/2022 4:00	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**91.7**	%REC	1	10/14/2022 4:00	198786
Surr: Dibromofluoromethane	*	0	80-120		**104.1**	%REC	1	10/14/2022 4:00	198786
Surr: Toluene-d8	*	0	80-120		**98.0**	%REC	1	10/14/2022 4:00	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-010 **Client Sample ID:** UMW-121-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 10:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.007	0.025		**0.086**	mg/L	5	10/17/2022 15:54	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:27	198852
Barium	NELAP	0.0007	0.0025		**0.0809**	mg/L	1	10/19/2022 17:27	198852
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 17:27	198852
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 17:27	198852
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 17:27	198852
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:27	198852
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:27	198852
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 18:32	198902
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/16/2022 19:36	198813
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/16/2022 19:36	198813
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/16/2022 19:36	198813
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/16/2022 19:36	198813
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/16/2022 19:36	198813
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/16/2022 19:36	198813
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/16/2022 19:36	198813
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/16/2022 19:36	198813
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/16/2022 19:36	198813
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/16/2022 19:36	198813
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/16/2022 19:36	198813
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/16/2022 19:36	198813
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/16/2022 19:36	198813
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/16/2022 19:36	198813
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/16/2022 19:36	198813
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/16/2022 19:36	198813
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**81.3**	%REC	1	10/16/2022 19:36	198813
Surr: Nitrobenzene-d5	*	0	15-163		**79.0**	%REC	1	10/16/2022 19:36	198813
Surr: p-Terphenyl-d14	*	0	10-173		**125.9**	%REC	1	10/16/2022 19:36	198813
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 4:24	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 4:24	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 4:24	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 4:24	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**89.2**	%REC	1	10/14/2022 4:24	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.0**	%REC	1	10/14/2022 4:24	198786
Surr: Dibromofluoromethane	*	0	80-120		**103.1**	%REC	1	10/14/2022 4:24	198786
Surr: Toluene-d8	*	0	80-120		**98.2**	%REC	1	10/14/2022 4:24	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-011 **Client Sample ID:** UMW-122-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 8:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.007**	mg/L	1	10/17/2022 13:44	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:45	198880
Barium	NELAP	0.0007	0.0025		**0.0565**	mg/L	1	10/19/2022 17:45	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 17:45	198880
Chromium	NELAP	0.0028	0.0050	J	**0.0028**	mg/L	1	10/19/2022 17:45	198880
Lead	NELAP	0.0040	0.0075		**0.0154**	mg/L	1	10/19/2022 17:45	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:45	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:45	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 18:39	198902
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 22:18	198941
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 22:18	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 22:18	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 22:18	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 22:18	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 22:18	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 22:18	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 22:18	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 22:18	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 22:18	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 22:18	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 22:18	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 22:18	198941
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/19/2022 22:18	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 22:18	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 22:18	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**74.6**	%REC	1	10/19/2022 22:18	198941
Surr: Nitrobenzene-d5	*	0	15-163		**67.2**	%REC	1	10/19/2022 22:18	198941
Surr: p-Terphenyl-d14	*	0	10-173		**132.1**	%REC	1	10/19/2022 22:18	198941

LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 4:48	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 4:48	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 4:48	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 4:48	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**89.2**	%REC	1	10/14/2022 4:48	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.2**	%REC	1	10/14/2022 4:48	198786
Surr: Dibromofluoromethane	*	0	80-120		**104.4**	%REC	1	10/14/2022 4:48	198786
Surr: Toluene-d8	*	0	80-120		**97.9**	%REC	1	10/14/2022 4:48	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-012 **Client Sample ID:** UMW-123-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 16:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.007**	mg/L	1	10/17/2022 13:48	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:49	198880
Barium	NELAP	0.0007	0.0025		**0.0233**	mg/L	1	10/19/2022 17:49	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 17:49	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 17:49	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 17:49	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:49	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:49	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 18:41	198902
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 11:48	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 11:48	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 11:48	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 11:48	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 11:48	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 11:48	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 11:48	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 11:48	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 11:48	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 11:48	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 11:48	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 11:48	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 11:48	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/19/2022 11:48	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 11:48	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 11:48	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**55.0**	%REC	1	10/19/2022 11:48	198882
Surr: Nitrobenzene-d5	*	0	15-163		**49.6**	%REC	1	10/19/2022 11:48	198882
Surr: p-Terphenyl-d14	*	0	10-173		**83.6**	%REC	1	10/19/2022 11:48	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 5:13	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 5:13	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 5:13	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 5:13	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**90.1**	%REC	1	10/14/2022 5:13	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.2**	%REC	1	10/14/2022 5:13	198786
Surr: Dibromofluoromethane	*	0	80-120		**102.5**	%REC	1	10/14/2022 5:13	198786
Surr: Toluene-d8	*	0	80-120		**97.8**	%REC	1	10/14/2022 5:13	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-013 **Client Sample ID:** UMW-124-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 15:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.007**	mg/L	1	10/17/2022 14:14	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:53	198880
Barium	NELAP	0.0007	0.0025		**0.0325**	mg/L	1	10/19/2022 17:53	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 17:53	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 17:53	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 17:53	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:53	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:53	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 18:43	198902
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**0.000433**	mg/L	1	10/21/2022 0:11	198955
Acenaphthylene	NELAP	).000050	0.000100		**0.000257**	mg/L	1	10/21/2022 0:11	198955
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/21/2022 0:11	198955
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 0:11	198955
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/21/2022 0:11	198955
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 0:11	198955
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 0:11	198955
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 0:11	198955
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 0:11	198955
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 0:11	198955
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/21/2022 0:11	198955
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/21/2022 0:11	198955
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/21/2022 0:11	198955
Naphthalene	NELAP	0.00850	0.0100		**0.0418**	mg/L	25	10/24/2022 20:14	198955
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/21/2022 0:11	198955
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/21/2022 0:11	198955
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**76.7**	%REC	1	10/21/2022 0:11	198955
Surr: Nitrobenzene-d5	*	0	15-163		**81.3**	%REC	1	10/21/2022 0:11	198955
Surr: p-Terphenyl-d14	*	0	10-173		**109.0**	%REC	1	10/21/2022 0:11	198955
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**52.6**	µg/L	1	10/14/2022 5:37	198786
Ethylbenzene	NELAP	0.1	2.0		**8.0**	µg/L	1	10/14/2022 5:37	198786
Toluene	NELAP	0.1	2.0		**44.8**	µg/L	1	10/14/2022 5:37	198786
Xylenes, Total	NELAP	0.3	4.0		**23.8**	µg/L	1	10/14/2022 5:37	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**89.4**	%REC	1	10/14/2022 5:37	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**90.7**	%REC	1	10/14/2022 5:37	198786
Surr: Dibromofluoromethane	*	0	80-120		**103.9**	%REC	1	10/14/2022 5:37	198786
Surr: Toluene-d8	*	0	80-120		**98.6**	%REC	1	10/14/2022 5:37	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-014 **Client Sample ID:** UMW-125-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 11:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.032**	mg/L	1	10/17/2022 14:18	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 17:56	198880
Barium	NELAP	0.0007	0.0025		**0.0244**	mg/L	1	10/19/2022 17:56	198880
Cadmium	NELAP	0.0005	0.0020	J	**0.0008**	mg/L	1	10/19/2022 17:56	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 17:56	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 17:56	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 17:56	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 17:56	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/18/2022 18:46	198902
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.00010	J	**0.000074**	mg/L	1	10/19/2022 22:58	198941
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 22:58	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 22:58	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 22:58	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 22:58	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 22:58	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 22:58	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 22:58	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 22:58	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 22:58	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 22:58	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 22:58	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 22:58	198941
Naphthalene	NELAP	).000340	0.000400		**0.00123**	mg/L	1	10/19/2022 22:58	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 22:58	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 22:58	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**81.6**	%REC	1	10/19/2022 22:58	198941
Surr: Nitrobenzene-d5	*	0	15-163		**75.3**	%REC	1	10/19/2022 22:58	198941
Surr: p-Terphenyl-d14	*	0	10-173		**120.7**	%REC	1	10/19/2022 22:58	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**10.9**	µg/L	1	10/14/2022 6:01	198786
Ethylbenzene	NELAP	0.1	2.0	J	**0.4**	µg/L	1	10/14/2022 6:01	198786
Toluene	NELAP	0.1	2.0	J	**0.4**	µg/L	1	10/14/2022 6:01	198786
Xylenes, Total	NELAP	0.3	4.0	J	**0.6**	µg/L	1	10/14/2022 6:01	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**90.1**	%REC	1	10/14/2022 6:01	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.3**	%REC	1	10/14/2022 6:01	198786
Surr: Dibromofluoromethane	*	0	80-120		**103.9**	%REC	1	10/14/2022 6:01	198786
Surr: Toluene-d8	*	0	80-120		**98.8**	%REC	1	10/14/2022 6:01	198786
Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.									

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-015 **Client Sample ID:** UMW-126-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 14:23	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 18:15	198880
Barium	NELAP	0.0007	0.0025		**0.0265**	mg/L	1	10/19/2022 18:15	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 18:15	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 18:15	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 18:15	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 18:15	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 18:15	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 17:48	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 23:38	198941
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 23:38	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 23:38	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 23:38	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 23:38	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 23:38	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 23:38	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 23:38	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 23:38	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 23:38	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 23:38	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 23:38	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 23:38	198941
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/19/2022 23:38	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 23:38	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 23:38	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**85.6**	%REC	1	10/19/2022 23:38	198941
Surr: Nitrobenzene-d5	*	0	15-163		**78.7**	%REC	1	10/19/2022 23:38	198941
Surr: p-Terphenyl-d14	*	0	10-173		**126.7**	%REC	1	10/19/2022 23:38	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5	J	**0.1**	µg/L	1	10/14/2022 6:26	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 6:26	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 6:26	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 6:26	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**90.1**	%REC	1	10/14/2022 6:26	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.2**	%REC	1	10/14/2022 6:26	198786
Surr: Dibromofluoromethane	*	0	80-120		**103.8**	%REC	1	10/14/2022 6:26	198786
Surr: Toluene-d8	*	0	80-120		**98.4**	%REC	1	10/14/2022 6:26	198786
Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.									

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-016 **Client Sample ID:** UMW-127-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 14:27	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 18:19	198880
Barium	NELAP	0.0007	0.0025		**0.130**	mg/L	1	10/19/2022 18:19	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 18:19	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 18:19	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 18:19	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 18:19	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 18:19	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 17:50	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**0.000188**	mg/L	1	10/20/2022 0:18	198941
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 0:18	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/20/2022 0:18	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 0:18	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/20/2022 0:18	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 0:18	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 0:18	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 0:18	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 0:18	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 0:18	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/20/2022 0:18	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/20/2022 0:18	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/20/2022 0:18	198941
Naphthalene	NELAP	).000340	0.000400		**0.00135**	mg/L	1	10/20/2022 0:18	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/20/2022 0:18	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/20/2022 0:18	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**81.7**	%REC	1	10/20/2022 0:18	198941
Surr: Nitrobenzene-d5	*	0	15-163		**74.4**	%REC	1	10/20/2022 0:18	198941
Surr: p-Terphenyl-d14	*	0	10-173		**126.9**	%REC	1	10/20/2022 0:18	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**1.8**	µg/L	1	10/14/2022 6:50	198786
Ethylbenzene	NELAP	0.1	2.0	J	**0.2**	µg/L	1	10/14/2022 6:50	198786
Toluene	NELAP	0.1	2.0	J	**0.9**	µg/L	1	10/14/2022 6:50	198786
Xylenes, Total	NELAP	0.3	4.0	J	**0.9**	µg/L	1	10/14/2022 6:50	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**90.1**	%REC	1	10/14/2022 6:50	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.0**	%REC	1	10/14/2022 6:50	198786
Surr: Dibromofluoromethane	*	0	80-120		**102.9**	%REC	1	10/14/2022 6:50	198786
Surr: Toluene-d8	*	0	80-120		**97.6**	%REC	1	10/14/2022 6:50	198786
Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.									

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-017 **Client Sample ID:** UMW-300-WG-20221010

Matrix: GROUNDWATER **Collection Date:** 10/10/2022 16:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 14:31	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 18:22	198880
Barium	NELAP	0.0007	0.0025		**0.0934**	mg/L	1	10/19/2022 18:22	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 18:22	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 18:22	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 18:22	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 18:22	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 18:22	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 17:52	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 17:37	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 17:37	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/18/2022 17:37	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 17:37	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/18/2022 17:37	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/18/2022 17:37	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 17:37	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 17:37	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/18/2022 17:37	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/18/2022 17:37	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/18/2022 17:37	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/18/2022 17:37	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/18/2022 17:37	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/18/2022 17:37	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/18/2022 17:37	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/18/2022 17:37	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**81.3**	%REC	1	10/18/2022 17:37	198882
Surr: Nitrobenzene-d5	*	0	15-163		**80.9**	%REC	1	10/18/2022 17:37	198882
Surr: p-Terphenyl-d14	*	0	10-173		**138.2**	%REC	1	10/18/2022 17:37	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 7:14	198786
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 7:14	198786
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 7:14	198786
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 7:14	198786
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**91.1**	%REC	1	10/14/2022 7:14	198786
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.6**	%REC	1	10/14/2022 7:14	198786
Surr: Dibromofluoromethane	*	0	80-120		**104.1**	%REC	1	10/14/2022 7:14	198786
Surr: Toluene-d8	*	0	80-120		**97.8**	%REC	1	10/14/2022 7:14	198786

Allowable Marginal Exceedance of o-Xylene in the laboratory control sample is verified per the TNI Standard.

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-018 **Client Sample ID:** UMW-301R-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 14:36	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 18:26	198880
Barium	NELAP	0.0007	0.0025		**0.0709**	mg/L	1	10/19/2022 18:26	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 18:26	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 18:26	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 18:26	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 18:26	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 18:26	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 17:55	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**0.00338**	mg/L	1	10/20/2022 0:58	198941
Acenaphthylene	NELAP	).000050	0.000100		**0.00309**	mg/L	1	10/20/2022 0:58	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/20/2022 0:58	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 0:58	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/20/2022 0:58	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 0:58	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 0:58	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 0:58	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 0:58	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 0:58	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/20/2022 0:58	198941
Fluorene	NELAP	0.00017	0.00020	J	**0.00017**	mg/L	1	10/20/2022 0:58	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/20/2022 0:58	198941
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/20/2022 0:58	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/20/2022 0:58	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/20/2022 0:58	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**82.4**	%REC	1	10/20/2022 0:58	198941
Surr: Nitrobenzene-d5	*	0	15-163		**75.1**	%REC	1	10/20/2022 0:58	198941
Surr: p-Terphenyl-d14	*	0	10-173		**123.6**	%REC	1	10/20/2022 0:58	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 14:21	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 14:21	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 14:21	198791
Xylenes, Total	NELAP	0.3	4.0	J	**0.4**	µg/L	1	10/14/2022 14:21	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**100.0**	%REC	1	10/14/2022 14:21	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.7**	%REC	1	10/14/2022 14:21	198791
Surr: Dibromofluoromethane	*	0	80-120		**108.4**	%REC	1	10/14/2022 14:21	198791
Surr: Toluene-d8	*	0	80-120		**94.4**	%REC	1	10/14/2022 14:21	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-019 **Client Sample ID:** UMW-302-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 15:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.007	0.025		**0.106**	mg/L	5	10/17/2022 15:58	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 18:30	198880
Barium	NELAP	0.0007	0.0025		**0.0554**	mg/L	1	10/19/2022 18:30	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 18:30	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 18:30	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 18:30	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 18:30	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 18:30	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 17:57	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**0.000589**	mg/L	1	10/21/2022 0:50	198955
Acenaphthylene	NELAP	).000050	0.000100		**0.000365**	mg/L	1	10/21/2022 0:50	198955
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/21/2022 0:50	198955
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 0:50	198955
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/21/2022 0:50	198955
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 0:50	198955
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 0:50	198955
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 0:50	198955
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 0:50	198955
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 0:50	198955
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/21/2022 0:50	198955
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/21/2022 0:50	198955
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/21/2022 0:50	198955
Naphthalene	NELAP	0.340	0.400		**2.05**	mg/L	1000	10/25/2022 10:07	198955
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/21/2022 0:50	198955
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/21/2022 0:50	198955
Surr: 2-Fluorobiphenyl	*	0	21.4-142	S	**0**	%REC	250	10/24/2022 19:33	198955
Surr: Nitrobenzene-d5	*	0	15-163		**37.5**	%REC	250	10/24/2022 19:33	198955
Surr: p-Terphenyl-d14	*	0	10-173		**87.2**	%REC	1	10/21/2022 0:50	198955
Surrogate recovery is outside control limits due to sample dilution.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.5	5.0		**178**	µg/L	10	10/14/2022 14:47	198791
Ethylbenzene	NELAP	1.0	20.0		**568**	µg/L	10	10/14/2022 14:47	198791
Toluene	NELAP	1.0	20	J	**5.0**	µg/L	10	10/14/2022 14:47	198791
Xylenes, Total	NELAP	2.8	40.0		**168**	µg/L	10	10/14/2022 14:47	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**101.5**	%REC	10	10/14/2022 14:47	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.6**	%REC	10	10/14/2022 14:47	198791
Surr: Dibromofluoromethane	*	0	80-120		**108.5**	%REC	10	10/14/2022 14:47	198791
Surr: Toluene-d8	*	0	80-120		**94.4**	%REC	10	10/14/2022 14:47	198791
Elevated reporting limit due to high levels of target and/or non-target analytes.									

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-020 **Client Sample ID:** UMW-304R-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005	J	**0.003**	mg/L	1	10/17/2022 14:44	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 18:34	198880
Barium	NELAP	0.0007	0.0025		**0.0781**	mg/L	1	10/19/2022 18:34	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 18:34	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 18:34	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 18:34	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 18:34	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 18:34	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 17:59	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**0.000193**	mg/L	1	10/20/2022 1:38	198941
Acenaphthylene	NELAP	).000050	0.000100		**0.000407**	mg/L	1	10/20/2022 1:38	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/20/2022 1:38	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 1:38	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/20/2022 1:38	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 1:38	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 1:38	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 1:38	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 1:38	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 1:38	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/20/2022 1:38	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/20/2022 1:38	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/20/2022 1:38	198941
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/20/2022 1:38	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/20/2022 1:38	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/20/2022 1:38	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**83.9**	%REC	1	10/20/2022 1:38	198941
Surr: Nitrobenzene-d5	*	0	15-163		**76.6**	%REC	1	10/20/2022 1:38	198941
Surr: p-Terphenyl-d14	*	0	10-173		**121.8**	%REC	1	10/20/2022 1:38	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 15:38	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 15:38	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 15:38	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 15:38	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**102.7**	%REC	1	10/14/2022 15:38	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**94.4**	%REC	1	10/14/2022 15:38	198791
Surr: Dibromofluoromethane	*	0	80-120		**109.4**	%REC	1	10/14/2022 15:38	198791
Surr: Toluene-d8	*	0	80-120		**93.8**	%REC	1	10/14/2022 15:38	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-021 **Client Sample ID:** UMW-305-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 16:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.008**	mg/L	1	10/17/2022 11:08	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/19/2022 18:37	198880
Barium	NELAP	0.0007	0.0025		**0.101**	mg/L	1	10/19/2022 18:37	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/19/2022 18:37	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/19/2022 18:37	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/19/2022 18:37	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/19/2022 18:37	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/19/2022 18:37	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:01	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 1:30	198955
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 1:30	198955
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/21/2022 1:30	198955
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 1:30	198955
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/21/2022 1:30	198955
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 1:30	198955
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 1:30	198955
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 1:30	198955
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 1:30	198955
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 1:30	198955
Fluoranthene	NELAP	).000270	0.000300		**0.000323**	mg/L	1	10/21/2022 1:30	198955
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/21/2022 1:30	198955
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/21/2022 1:30	198955
Naphthalene	NELAP	).000340	0.000400	S	**0.00454**	mg/L	1	10/21/2022 1:30	198955
Phenanthrene	NELAP	0.00053	0.00060	J	**0.00058**	mg/L	1	10/21/2022 1:30	198955
Pyrene	NELAP	).000180	0.000200		**0.000210**	mg/L	1	10/21/2022 1:30	198955
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**79.1**	%REC	1	10/21/2022 1:30	198955
Surr: Nitrobenzene-d5	*	0	15-163		**72.6**	%REC	1	10/21/2022 1:30	198955
Surr: p-Terphenyl-d14	*	0	10-173		**96.1**	%REC	1	10/21/2022 1:30	198955
Matrix spike did not recover within control limits for Naphthalene due to sample composition.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 16:29	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 16:29	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 16:29	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 16:29	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**96.4**	%REC	1	10/14/2022 16:29	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**90.5**	%REC	1	10/14/2022 16:29	198791
Surr: Dibromofluoromethane	*	0	80-120		**105.7**	%REC	1	10/14/2022 16:29	198791
Surr: Toluene-d8	*	0	80-120		**84.4**	%REC	1	10/14/2022 16:29	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-022 **Client Sample ID:** UMW-306-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 15:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.012**	mg/L	1	10/17/2022 11:21	198782
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 11:48	198880
Barium	NELAP	0.0007	0.0025		**0.109**	mg/L	1	10/20/2022 11:48	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 11:48	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 11:48	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 11:48	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 11:48	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 11:48	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:13	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Acenaphthylene	NELAP	).000050	0.000100	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Anthracene	NELAP	).000200	0.000300	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Benzo(a)anthracene	NELAP	).000070	0.000100	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Benzo(a)pyrene	NELAP	).000110	0.000200	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Chrysene	NELAP	).000050	0.000100	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Fluoranthene	NELAP	).000270	0.000300	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Fluorene	NELAP	).000170	0.000200	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Naphthalene	NELAP	).000340	0.000400	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Phenanthrene	NELAP	).000530	0.000600	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Pyrene	NELAP	).000180	0.000200	R	**ND**	mg/L	1	10/19/2022 12:27	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**46.2**	%REC	1	10/19/2022 12:27	198882
Surr: Nitrobenzene-d5	*	0	15-163		**41.5**	%REC	1	10/19/2022 12:27	198882
Surr: p-Terphenyl-d14	*	0	10-173		**84.6**	%REC	1	10/19/2022 12:27	198882
RPD for MS/MSD was outside control limits due to sample composition.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/15/2022 23:46	198833
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/15/2022 23:46	198833
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/15/2022 23:46	198833
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/15/2022 23:46	198833
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**96.4**	%REC	1	10/15/2022 23:46	198833
Surr: 4-Bromofluorobenzene	*	0	80-120		**95.5**	%REC	1	10/15/2022 23:46	198833
Surr: Dibromofluoromethane	*	0	80-120		**106.9**	%REC	1	10/15/2022 23:46	198833
Surr: Toluene-d8	*	0	80-120		**91.4**	%REC	1	10/15/2022 23:46	198833

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-023 **Client Sample ID:** UMW-307-WG-20221011

Matrix: GROUNDWATER **Collection Date:** 10/11/2022 13:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.030**	mg/L	1	10/17/2022 14:49	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 11:04	198880
Barium	NELAP	0.0007	0.0025		**0.112**	mg/L	1	10/20/2022 11:04	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 11:04	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 11:04	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 11:04	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 11:04	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 11:04	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:19	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 11:09	198882
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 11:09	198882
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/19/2022 11:09	198882
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 11:09	198882
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/19/2022 11:09	198882
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/19/2022 11:09	198882
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 11:09	198882
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 11:09	198882
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/19/2022 11:09	198882
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/19/2022 11:09	198882
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/19/2022 11:09	198882
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/19/2022 11:09	198882
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/19/2022 11:09	198882
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/19/2022 11:09	198882
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/19/2022 11:09	198882
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/19/2022 11:09	198882
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**70.0**	%REC	1	10/19/2022 11:09	198882
Surr: Nitrobenzene-d5	*	0	15-163		**59.8**	%REC	1	10/19/2022 11:09	198882
Surr: p-Terphenyl-d14	*	0	10-173		**109.6**	%REC	1	10/19/2022 11:09	198882
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 17:47	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 17:47	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 17:47	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 17:47	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**101.9**	%REC	1	10/14/2022 17:47	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.7**	%REC	1	10/14/2022 17:47	198791
Surr: Dibromofluoromethane	*	0	80-120		**109.3**	%REC	1	10/14/2022 17:47	198791
Surr: Toluene-d8	*	0	80-120		**93.2**	%REC	1	10/14/2022 17:47	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-024 **Client Sample ID:** UMW-308-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 14:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.013**	mg/L	1	10/17/2022 14:53	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 11:08	198880
Barium	NELAP	0.0007	0.0025		**0.119**	mg/L	1	10/20/2022 11:08	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 11:08	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 11:08	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 11:08	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 11:08	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 11:08	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:22	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 3:29	198955
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 3:29	198955
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/21/2022 3:29	198955
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 3:29	198955
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/21/2022 3:29	198955
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/21/2022 3:29	198955
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 3:29	198955
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 3:29	198955
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/21/2022 3:29	198955
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/21/2022 3:29	198955
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/21/2022 3:29	198955
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/21/2022 3:29	198955
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/21/2022 3:29	198955
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/21/2022 3:29	198955
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/21/2022 3:29	198955
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/21/2022 3:29	198955
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**75.3**	%REC	1	10/21/2022 3:29	198955
Surr: Nitrobenzene-d5	*	0	15-163		**70.0**	%REC	1	10/21/2022 3:29	198955
Surr: p-Terphenyl-d14	*	0	10-173		**98.5**	%REC	1	10/21/2022 3:29	198955
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 18:14	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 18:14	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 18:14	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 18:14	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**101.3**	%REC	1	10/14/2022 18:14	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**93.0**	%REC	1	10/14/2022 18:14	198791
Surr: Dibromofluoromethane	*	0	80-120		**108.4**	%REC	1	10/14/2022 18:14	198791
Surr: Toluene-d8	*	0	80-120		**93.7**	%REC	1	10/14/2022 18:14	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-025 **Client Sample ID:** DUP 001-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 0:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**0.007**	mg/L	1	10/17/2022 15:19	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 11:59	198880
Barium	NELAP	0.0007	0.0025		**0.0327**	mg/L	1	10/20/2022 11:59	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 11:59	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 11:59	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 11:59	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 11:59	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 11:59	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:24	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**0.000434**	mg/L	1	10/20/2022 2:19	198941
Acenaphthylene	NELAP	).000050	0.000100		**0.000246**	mg/L	1	10/20/2022 2:19	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/20/2022 2:19	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 2:19	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/20/2022 2:19	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 2:19	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 2:19	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 2:19	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 2:19	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 2:19	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/20/2022 2:19	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/20/2022 2:19	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/20/2022 2:19	198941
Naphthalene	NELAP	0.00850	0.0100		**0.0369**	mg/L	25	10/20/2022 19:35	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/20/2022 2:19	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/20/2022 2:19	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**75.5**	%REC	1	10/20/2022 2:19	198941
Surr: Nitrobenzene-d5	*	0	15-163		**69.2**	%REC	1	10/20/2022 2:19	198941
Surr: p-Terphenyl-d14	*	0	10-173		**112.7**	%REC	1	10/20/2022 2:19	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**54.8**	µg/L	1	10/14/2022 18:39	198791
Ethylbenzene	NELAP	0.1	2.0		**7.4**	µg/L	1	10/14/2022 18:39	198791
Toluene	NELAP	0.1	2.0		**40.6**	µg/L	1	10/14/2022 18:39	198791
Xylenes, Total	NELAP	0.3	4.0		**21.8**	µg/L	1	10/14/2022 18:39	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**101.9**	%REC	1	10/14/2022 18:39	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.1**	%REC	1	10/14/2022 18:39	198791
Surr: Dibromofluoromethane	*	0	80-120		**107.1**	%REC	1	10/14/2022 18:39	198791
Surr: Toluene-d8	*	0	80-120		**93.4**	%REC	1	10/14/2022 18:39	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-026 **Client Sample ID:** DUP 002-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 0:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 15:23	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 12:03	198880
Barium	NELAP	0.0007	0.0025		**0.0263**	mg/L	1	10/20/2022 12:03	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 12:03	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 12:03	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 12:03	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 12:03	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 12:03	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:26	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 2:59	198941
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 2:59	198941
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/20/2022 2:59	198941
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 2:59	198941
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/20/2022 2:59	198941
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/20/2022 2:59	198941
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 2:59	198941
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 2:59	198941
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/20/2022 2:59	198941
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/20/2022 2:59	198941
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/20/2022 2:59	198941
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/20/2022 2:59	198941
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/20/2022 2:59	198941
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/20/2022 2:59	198941
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/20/2022 2:59	198941
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/20/2022 2:59	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**84.6**	%REC	1	10/20/2022 2:59	198941
Surr: Nitrobenzene-d5	*	0	15-163		**75.4**	%REC	1	10/20/2022 2:59	198941
Surr: p-Terphenyl-d14	*	0	10-173		**107.5**	%REC	1	10/20/2022 2:59	198941
LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.									
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5	J	**0.2**	µg/L	1	10/14/2022 19:06	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 19:06	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 19:06	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 19:06	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**100.7**	%REC	1	10/14/2022 19:06	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**94.6**	%REC	1	10/14/2022 19:06	198791
Surr: Dibromofluoromethane	*	0	80-120		**107.9**	%REC	1	10/14/2022 19:06	198791
Surr: Toluene-d8	*	0	80-120		**92.3**	%REC	1	10/14/2022 19:06	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-027 **Client Sample ID:** DUP 003-WG-20221012

Matrix: GROUNDWATER **Collection Date:** 10/12/2022 0:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.007	0.025		**0.103**	mg/L	5	10/18/2022 6:59	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 12:07	198880
Barium	NELAP	0.0007	0.0025		**0.0546**	mg/L	1	10/20/2022 12:07	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 12:07	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 12:07	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 12:07	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 12:07	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 12:07	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:28	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	0.00350	0.00500		**ND**	mg/L	50	10/25/2022 14:12	198941
Acenaphthylene	NELAP	0.00250	0.00500		**ND**	mg/L	50	10/25/2022 14:12	198941
Anthracene	NELAP	0.0100	0.0150		**ND**	mg/L	50	10/25/2022 14:12	198941
Benzo(a)anthracene	NELAP	0.00350	0.00500		**ND**	mg/L	50	10/25/2022 14:12	198941
Benzo(a)pyrene	NELAP	0.00550	0.0100		**ND**	mg/L	50	10/25/2022 14:12	198941
Benzo(b)fluoranthene	NELAP	0.00350	0.00500		**ND**	mg/L	50	10/25/2022 14:12	198941
Benzo(g,h,i)perylene	NELAP	0.00600	0.0100		**ND**	mg/L	50	10/25/2022 14:12	198941
Benzo(k)fluoranthene	NELAP	0.00250	0.00500		**ND**	mg/L	50	10/25/2022 14:12	198941
Chrysene	NELAP	0.00250	0.00500		**ND**	mg/L	50	10/25/2022 14:12	198941
Dibenzo(a,h)anthracene	NELAP	0.00600	0.0100		**ND**	mg/L	50	10/25/2022 14:12	198941
Fluoranthene	NELAP	0.0135	0.0150		**ND**	mg/L	50	10/25/2022 14:12	198941
Fluorene	NELAP	0.00850	0.0100		**ND**	mg/L	50	10/25/2022 14:12	198941
Indeno(1,2,3-cd)pyrene	NELAP	0.00800	0.0100		**ND**	mg/L	50	10/25/2022 14:12	198941
Naphthalene	NELAP	0.340	0.400		**2.44**	mg/L	1000	10/25/2022 10:45	198941
Phenanthrene	NELAP	0.0265	0.0300		**ND**	mg/L	50	10/25/2022 14:12	198941
Pyrene	NELAP	0.00900	0.0100		**ND**	mg/L	50	10/25/2022 14:12	198941
Surr: 2-Fluorobiphenyl	*	0	21.4-142	S	**0**	%REC	50	10/25/2022 14:12	198941
Surr: Nitrobenzene-d5	*	0	15-163		**82.5**	%REC	50	10/25/2022 14:12	198941
Surr: p-Terphenyl-d14	*	0	10-173		**133.5**	%REC	50	10/25/2022 14:12	198941

Surrogate recovery is outside control limits due to matrix interference.

LCS did not recover within control limits due to lab error. Insufficient sample to re-extract.

Elevated reporting limit due to sample extract composition.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	2.5	25.0		**207**	µg/L	50	10/15/2022 14:13	198825
Ethylbenzene	NELAP	5.0	100		**579**	µg/L	50	10/15/2022 14:13	198825
Toluene	NELAP	0.1	2.0		**4.2**	µg/L	1	10/14/2022 19:32	198791
Xylenes, Total	NELAP	0.3	4.0		**206**	µg/L	1	10/14/2022 19:32	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**105.8**	%REC	1	10/14/2022 19:32	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**91.9**	%REC	1	10/14/2022 19:32	198791
Surr: Dibromofluoromethane	*	0	80-120		**109.1**	%REC	1	10/14/2022 19:32	198791
Surr: Toluene-d8	*	0	80-120		**92.8**	%REC	1	10/14/2022 19:32	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-028 **Client Sample ID:** EB-01-WQ-20221010

Matrix: AQUEOUS **Collection Date:** 10/10/2022 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 15:32	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 12:10	198880
Barium	NELAP	0.0007	0.0025		**< 0.0025**	mg/L	1	10/20/2022 12:10	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 12:10	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 12:10	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 12:10	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 12:10	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 12:10	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:31	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/16/2022 20:16	198813
Acenaphthylene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/16/2022 20:16	198813
Anthracene	NELAP	).000200	0.000300		**ND**	mg/L	1	10/16/2022 20:16	198813
Benzo(a)anthracene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/16/2022 20:16	198813
Benzo(a)pyrene	NELAP	).000110	0.000200		**ND**	mg/L	1	10/16/2022 20:16	198813
Benzo(b)fluoranthene	NELAP	).000070	0.000100		**ND**	mg/L	1	10/16/2022 20:16	198813
Benzo(g,h,i)perylene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/16/2022 20:16	198813
Benzo(k)fluoranthene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/16/2022 20:16	198813
Chrysene	NELAP	).000050	0.000100		**ND**	mg/L	1	10/16/2022 20:16	198813
Dibenzo(a,h)anthracene	NELAP	).000120	0.000200		**ND**	mg/L	1	10/16/2022 20:16	198813
Fluoranthene	NELAP	).000270	0.000300		**ND**	mg/L	1	10/16/2022 20:16	198813
Fluorene	NELAP	).000170	0.000200		**ND**	mg/L	1	10/16/2022 20:16	198813
Indeno(1,2,3-cd)pyrene	NELAP	).000160	0.000200		**ND**	mg/L	1	10/16/2022 20:16	198813
Naphthalene	NELAP	).000340	0.000400		**ND**	mg/L	1	10/16/2022 20:16	198813
Phenanthrene	NELAP	).000530	0.000600		**ND**	mg/L	1	10/16/2022 20:16	198813
Pyrene	NELAP	).000180	0.000200		**ND**	mg/L	1	10/16/2022 20:16	198813
Surr: 2-Fluorobiphenyl	*	0	21.4-142		**54.3**	%REC	1	10/16/2022 20:16	198813
Surr: Nitrobenzene-d5	*	0	15-163		**50.4**	%REC	1	10/16/2022 20:16	198813
Surr: p-Terphenyl-d14	*	0	10-173		**101.0**	%REC	1	10/16/2022 20:16	198813
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 11:24	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 11:24	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 11:24	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 11:24	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**100.5**	%REC	1	10/14/2022 11:24	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**94.6**	%REC	1	10/14/2022 11:24	198791
Surr: Dibromofluoromethane	*	0	80-120		**107.5**	%REC	1	10/14/2022 11:24	198791
Surr: Toluene-d8	*	0	80-120		**94.2**	%REC	1	10/14/2022 11:24	198791

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Lab ID: 22100870-029 **Client Sample ID:** EB-02-WQ-20221012

Matrix: AQUEOUS **Collection Date:** 10/12/2022 10:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 9012A (TOTAL)									
Cyanide	NELAP	0.001	0.005		**< 0.005**	mg/L	1	10/17/2022 15:36	198783
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Arsenic	NELAP	0.0087	0.0250		**< 0.0250**	mg/L	1	10/20/2022 12:14	198880
Barium	NELAP	0.0007	0.0025		**< 0.0025**	mg/L	1	10/20/2022 12:14	198880
Cadmium	NELAP	0.0005	0.0020		**< 0.0020**	mg/L	1	10/20/2022 12:14	198880
Chromium	NELAP	0.0028	0.0050		**< 0.0050**	mg/L	1	10/20/2022 12:14	198880
Lead	NELAP	0.0040	0.0075		**< 0.0075**	mg/L	1	10/20/2022 12:14	198880
Selenium	NELAP	0.0170	0.0400		**< 0.0400**	mg/L	1	10/20/2022 12:14	198880
Silver	NELAP	0.0009	0.0070		**< 0.0070**	mg/L	1	10/20/2022 12:14	198880
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	10/19/2022 18:37	198957
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS									
Acenaphthene	NELAP	).000140	0.000200	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Acenaphthylene	NELAP	).000100	0.000200	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Anthracene	NELAP	).000400	0.000600	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Benzo(a)anthracene	NELAP	).000140	0.000200	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Benzo(a)pyrene	NELAP	).000220	0.000400	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Benzo(b)fluoranthene	NELAP	).000140	0.000200	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Benzo(g,h,i)perylene	NELAP	).000240	0.000400	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Benzo(k)fluoranthene	NELAP	).000100	0.000200	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Chrysene	NELAP	).000100	0.000200	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Dibenzo(a,h)anthracene	NELAP	).000240	0.000400	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Fluoranthene	NELAP	).000540	0.000600	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Fluorene	NELAP	).000340	0.000400	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Indeno(1,2,3-cd)pyrene	NELAP	).000320	0.000400	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Naphthalene	NELAP	).000680	0.000800	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Phenanthrene	NELAP	0.00106	0.00120	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Pyrene	NELAP	).000360	0.000400	H	**ND**	mg/L	1	10/25/2022 13:31	199231
Surr: 2-Fluorobiphenyl	*	0	21.4-142	H	**62.5**	%REC	1	10/25/2022 13:31	199231
Surr: Nitrobenzene-d5	*	0	15-163	H	**65.9**	%REC	1	10/25/2022 13:31	199231
Surr: p-Terphenyl-d14	*	0	10-173	H	**114.2**	%REC	1	10/25/2022 13:31	199231

Sample required re-extraction out of hold time.

Elevated reporting limit due to limited sample upon re-extraction.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 11:49	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 11:49	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 11:49	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 11:49	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**100.1**	%REC	1	10/14/2022 11:49	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**92.0**	%REC	1	10/14/2022 11:49	198791
Surr: Dibromofluoromethane	*	0	80-120		**107.7**	%REC	1	10/14/2022 11:49	198791
Surr: Toluene-d8	*	0	80-120		**94.7**	%REC	1	10/14/2022 11:49	198791

Client: ERM
Work Order: 22100870
Client Project: Champaign GW
Report Date: 25-Oct-22
Lab ID: 22100870-030
Client Sample ID: TB-01-WQ-20221010
Matrix: TRIP BLANK
Collection Date: 10/13/2022 12:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Benzene	NELAP	0.1	0.5		**ND**	µg/L	1	10/14/2022 12:14	198791
Ethylbenzene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 12:14	198791
Toluene	NELAP	0.1	2.0		**ND**	µg/L	1	10/14/2022 12:14	198791
Xylenes, Total	NELAP	0.3	4.0		**ND**	µg/L	1	10/14/2022 12:14	198791
Surr: 1,2-Dichloroethane-d4	*	0	80-120		**100.2**	%REC	1	10/14/2022 12:14	198791
Surr: 4-Bromofluorobenzene	*	0	80-120		**94.2**	%REC	1	10/14/2022 12:14	198791
Surr: Dibromofluoromethane	*	0	80-120		**106.4**	%REC	1	10/14/2022 12:14	198791
Surr: Toluene-d8	*	0	80-120		**94.7**	%REC	1	10/14/2022 12:14	198791

Client: ERM
Client Project: Champaign GW

Work Order: 22100870
Report Date: 25-Oct-22

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
22100870-001	UMW-102-WG-20221010	Groundwater	4	10/10/2022 13:50
22100870-002	UMW-105-WG-20221012	Groundwater	4	10/12/2022 9:40
22100870-003	UMW-106R-WG-20221011	Groundwater	4	10/11/2022 15:10
22100870-004	UMW-109-WG-20221011	Groundwater	4	10/11/2022 11:05
22100870-005	UMW-111A-WG-20221011	Groundwater	4	10/11/2022 11:00
22100870-006	UMW-116-WG-20221011	Groundwater	4	10/11/2022 12:30
22100870-007	UMW-118-WG-20221011	Groundwater	4	10/11/2022 12:15
22100870-008	UMW-119-WG-20221010	Groundwater	4	10/10/2022 15:10
22100870-009	UMW-120-WG-20221011	Groundwater	4	10/11/2022 9:00
22100870-010	UMW-121-WG-20221012	Groundwater	4	10/12/2022 10:10
22100870-011	UMW-122-WG-20221012	Groundwater	4	10/12/2022 8:00
22100870-012	UMW-123-WG-20221011	Groundwater	4	10/11/2022 16:15
22100870-013	UMW-124-WG-20221012	Groundwater	4	10/12/2022 15:30
22100870-014	UMW-125-WG-20221012	Groundwater	4	10/12/2022 11:45
22100870-015	UMW-126-WG-20221012	Groundwater	4	10/12/2022 13:50
22100870-016	UMW-127-WG-20221012	Groundwater	4	10/12/2022 11:00
22100870-017	UMW-300-WG-20221010	Groundwater	4	10/10/2022 16:20
22100870-018	UMW-301R-WG-20221012	Groundwater	4	10/12/2022 12:20
22100870-019	UMW-302-WG-20221012	Groundwater	4	10/12/2022 15:00
22100870-020	UMW-304R-WG-20221012	Groundwater	4	10/12/2022 13:10
22100870-021	UMW-305-WG-20221011	Groundwater	4	10/12/2022 16:20
22100870-022	UMW-306-WG-20221011	Groundwater	4	10/11/2022 15:05
22100870-023	UMW-307-WG-20221011	Groundwater	4	10/11/2022 13:35
22100870-024	UMW-308-WG-20221012	Groundwater	4	10/12/2022 14:15
22100870-025	DUP 001-WG-20221012	Groundwater	4	10/12/2022 0:00
22100870-026	DUP 002-WG-20221012	Groundwater	4	10/12/2022 0:00
22100870-027	DUP 003-WG-20221012	Groundwater	4	10/12/2022 0:00
22100870-028	EB-01-WQ-20221010	Aqueous	4	10/10/2022 12:30
22100870-029	EB-02-WQ-20221012	Aqueous	4	10/12/2022 10:15
22100870-030	TB-01-WQ-20221010	Trip Blank	1	10/13/2022 12:45

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
22100870-001A	UMW-102-WG-20221010	10/10/2022 13:50	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/20/2022 23:32
22100870-001B	UMW-102-WG-20221010	10/10/2022 13:50	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:26	10/19/2022 16:16
	SW-846 7470A (Total)			10/18/2022 8:18	10/18/2022 17:04
22100870-001C	UMW-102-WG-20221010	10/10/2022 13:50	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 12:43
22100870-001D	UMW-102-WG-20221010	10/10/2022 13:50	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 12:40
22100870-002A	UMW-105-WG-20221012	10/12/2022 9:40	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/19/2022 21:38
22100870-002B	UMW-105-WG-20221012	10/12/2022 9:40	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:26	10/19/2022 16:39
	SW-846 7470A (Total)			10/18/2022 8:18	10/18/2022 17:06
22100870-002C	UMW-105-WG-20221012	10/12/2022 9:40	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:09
22100870-002D	UMW-105-WG-20221012	10/12/2022 9:40	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 1:09
22100870-003A	UMW-106R-WG-20221011	10/11/2022 15:10	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 15:00	10/18/2022 16:18
22100870-003B	UMW-106R-WG-20221011	10/11/2022 15:10	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:26	10/19/2022 16:20
	SW-846 7470A (Total)			10/18/2022 8:18	10/18/2022 17:08
22100870-003C	UMW-106R-WG-20221011	10/11/2022 15:10	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:13
22100870-003D	UMW-106R-WG-20221011	10/11/2022 15:10	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 1:34
22100870-004A	UMW-109-WG-20221011	10/11/2022 11:05	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 21:33	10/18/2022 18:16
22100870-004B	UMW-109-WG-20221011	10/11/2022 11:05	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:28	10/19/2022 16:50
	SW-846 7470A (Total)			10/18/2022 8:18	10/18/2022 17:19
22100870-004C	UMW-109-WG-20221011	10/11/2022 11:05	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:18
22100870-004D	UMW-109-WG-20221011	10/11/2022 11:05	10/13/2022 12:45		

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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				10/14/2022 1:58
22100870-005A	UMW-111A-WG-20221011	10/11/2022 11:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 21:33	10/18/2022 18:56
22100870-005B	UMW-111A-WG-20221011	10/11/2022 11:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:28	10/19/2022 16:53
	SW-846 7470A (Total)			10/18/2022 8:18	10/18/2022 17:22
22100870-005C	UMW-111A-WG-20221011	10/11/2022 11:00	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:22
22100870-005D	UMW-111A-WG-20221011	10/11/2022 11:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 2:22
22100870-006A	UMW-116-WG-20221011	10/11/2022 12:30	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 21:33	10/18/2022 19:35
22100870-006B	UMW-116-WG-20221011	10/11/2022 12:30	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:28	10/19/2022 16:57
	SW-846 7470A (Total)			10/18/2022 8:18	10/18/2022 17:24
22100870-006C	UMW-116-WG-20221011	10/11/2022 12:30	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:26
22100870-006D	UMW-116-WG-20221011	10/11/2022 12:30	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 2:47
22100870-007A	UMW-118-WG-20221011	10/11/2022 12:15	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 21:33	10/19/2022 9:52
22100870-007B	UMW-118-WG-20221011	10/11/2022 12:15	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:28	10/19/2022 17:01
	SW-846 7470A (Total)			10/18/2022 8:18	10/18/2022 17:26
22100870-007C	UMW-118-WG-20221011	10/11/2022 12:15	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 12:04
22100870-007D	UMW-118-WG-20221011	10/11/2022 12:15	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 3:11
22100870-008A	UMW-119-WG-20221010	10/10/2022 15:10	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 15:00	10/18/2022 16:58
22100870-008B	UMW-119-WG-20221010	10/10/2022 15:10	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:28	10/19/2022 17:04
	SW-846 7470A (Total)			10/18/2022 8:25	10/18/2022 18:23
22100870-008C	UMW-119-WG-20221010	10/10/2022 15:10	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:31

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
22100870-008D	UMW-119-WG-20221010	10/10/2022 15:10	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 3:35
22100870-009A	UMW-120-WG-20221011	10/11/2022 9:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 21:33	10/19/2022 10:31
22100870-009B	UMW-120-WG-20221011	10/11/2022 9:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:28	10/19/2022 17:08
	SW-846 7470A (Total)			10/18/2022 8:25	10/18/2022 18:30
22100870-009C	UMW-120-WG-20221011	10/11/2022 9:00	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:35
22100870-009D	UMW-120-WG-20221011	10/11/2022 9:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 4:00
22100870-010A	UMW-121-WG-20221012	10/12/2022 10:10	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/14/2022 20:51	10/16/2022 19:36
22100870-010B	UMW-121-WG-20221012	10/12/2022 10:10	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/17/2022 8:28	10/19/2022 17:27
	SW-846 7470A (Total)			10/18/2022 8:25	10/18/2022 18:32
22100870-010C	UMW-121-WG-20221012	10/12/2022 10:10	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 15:54
22100870-010D	UMW-121-WG-20221012	10/12/2022 10:10	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 4:24
22100870-011A	UMW-122-WG-20221012	10/12/2022 8:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/19/2022 22:18
22100870-011B	UMW-122-WG-20221012	10/12/2022 8:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 17:45
	SW-846 7470A (Total)			10/18/2022 8:25	10/18/2022 18:39
22100870-011C	UMW-122-WG-20221012	10/12/2022 8:00	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:44
22100870-011D	UMW-122-WG-20221012	10/12/2022 8:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 4:48
22100870-012A	UMW-123-WG-20221011	10/11/2022 16:15	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 11:31	10/19/2022 11:48
22100870-012B	UMW-123-WG-20221011	10/11/2022 16:15	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 17:49
	SW-846 7470A (Total)			10/18/2022 8:25	10/18/2022 18:41
22100870-012C	UMW-123-WG-20221011	10/11/2022 16:15	10/13/2022 12:45		

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 13:48
22100870-012D	UMW-123-WG-20221011	10/11/2022 16:15	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 5:13
22100870-013A	UMW-124-WG-20221012	10/12/2022 15:30	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/21/2022 0:11
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/24/2022 20:14
22100870-013B	UMW-124-WG-20221012	10/12/2022 15:30	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 17:53
	SW-846 7470A (Total)			10/18/2022 8:25	10/18/2022 18:43
22100870-013C	UMW-124-WG-20221012	10/12/2022 15:30	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:14
22100870-013D	UMW-124-WG-20221012	10/12/2022 15:30	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 5:37
22100870-014A	UMW-125-WG-20221012	10/12/2022 11:45	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/19/2022 22:58
22100870-014B	UMW-125-WG-20221012	10/12/2022 11:45	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 17:56
	SW-846 7470A (Total)			10/18/2022 8:25	10/18/2022 18:46
22100870-014C	UMW-125-WG-20221012	10/12/2022 11:45	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:18
22100870-014D	UMW-125-WG-20221012	10/12/2022 11:45	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 6:01
22100870-015A	UMW-126-WG-20221012	10/12/2022 13:50	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/19/2022 23:38
22100870-015B	UMW-126-WG-20221012	10/12/2022 13:50	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 18:15
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 17:48
22100870-015C	UMW-126-WG-20221012	10/12/2022 13:50	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:23
22100870-015D	UMW-126-WG-20221012	10/12/2022 13:50	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 6:26
22100870-016A	UMW-127-WG-20221012	10/12/2022 11:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/20/2022 0:18
22100870-016B	UMW-127-WG-20221012	10/12/2022 11:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 18:19

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 17:50
22100870-016C	UMW-127-WG-20221012	10/12/2022 11:00	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:27
22100870-016D	UMW-127-WG-20221012	10/12/2022 11:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 6:50
22100870-017A	UMW-300-WG-20221010	10/10/2022 16:20	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 15:00	10/18/2022 17:37
22100870-017B	UMW-300-WG-20221010	10/10/2022 16:20	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 18:22
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 17:52
22100870-017C	UMW-300-WG-20221010	10/10/2022 16:20	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:31
22100870-017D	UMW-300-WG-20221010	10/10/2022 16:20	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 7:14
22100870-018A	UMW-301R-WG-20221012	10/12/2022 12:20	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/20/2022 0:58
22100870-018B	UMW-301R-WG-20221012	10/12/2022 12:20	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 18:26
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 17:55
22100870-018C	UMW-301R-WG-20221012	10/12/2022 12:20	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:36
22100870-018D	UMW-301R-WG-20221012	10/12/2022 12:20	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 14:21
22100870-019A	UMW-302-WG-20221012	10/12/2022 15:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/21/2022 0:50
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/24/2022 19:33
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/25/2022 10:07
22100870-019B	UMW-302-WG-20221012	10/12/2022 15:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 18:30
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 17:57
22100870-019C	UMW-302-WG-20221012	10/12/2022 15:00	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 15:58
22100870-019D	UMW-302-WG-20221012	10/12/2022 15:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 14:47
22100870-020A	UMW-304R-WG-20221012	10/12/2022 13:10	10/13/2022 12:45		

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/20/2022 1:38
22100870-020B	UMW-304R-WG-20221012	10/12/2022 13:10	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 18:34
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 17:59
22100870-020C	UMW-304R-WG-20221012	10/12/2022 13:10	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:44
22100870-020D	UMW-304R-WG-20221012	10/12/2022 13:10	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 15:38
22100870-021A	UMW-305-WG-20221011	10/12/2022 16:20	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/21/2022 1:30
22100870-021B	UMW-305-WG-20221011	10/12/2022 16:20	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/19/2022 18:37
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:01
22100870-021C	UMW-305-WG-20221011	10/12/2022 16:20	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 11:08
22100870-021D	UMW-305-WG-20221011	10/12/2022 16:20	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 16:29
22100870-022A	UMW-306-WG-20221011	10/11/2022 15:05	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 11:31	10/19/2022 12:27
22100870-022B	UMW-306-WG-20221011	10/11/2022 15:05	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 11:48
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:13
22100870-022C	UMW-306-WG-20221011	10/11/2022 15:05	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 11:21
22100870-022D	UMW-306-WG-20221011	10/11/2022 15:05	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/15/2022 23:46
22100870-023A	UMW-307-WG-20221011	10/11/2022 13:35	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/17/2022 21:33	10/19/2022 11:09
22100870-023B	UMW-307-WG-20221011	10/11/2022 13:35	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 11:04
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:19
22100870-023C	UMW-307-WG-20221011	10/11/2022 13:35	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:49
22100870-023D	UMW-307-WG-20221011	10/11/2022 13:35	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 17:47

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
22100870-024A	UMW-308-WG-20221012	10/12/2022 14:15	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/19/2022 12:28	10/21/2022 3:29
22100870-024B	UMW-308-WG-20221012	10/12/2022 14:15	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 11:08
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:22
22100870-024C	UMW-308-WG-20221012	10/12/2022 14:15	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 14:53
22100870-024D	UMW-308-WG-20221012	10/12/2022 14:15	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 18:14
22100870-025A	DUP 001-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/20/2022 2:19
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/20/2022 19:35
22100870-025B	DUP 001-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 11:59
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:24
22100870-025C	DUP 001-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 15:19
22100870-025D	DUP 001-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 18:39
22100870-026A	DUP 002-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 15:57	10/20/2022 2:59
22100870-026B	DUP 002-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 12:03
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:26
22100870-026C	DUP 002-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 15:23
22100870-026D	DUP 002-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 19:06
22100870-027A	DUP 003-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 22:32	10/25/2022 10:45
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/18/2022 22:32	10/25/2022 14:12
22100870-027B	DUP 003-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 12:07
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:28
22100870-027C	DUP 003-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9012A (Total)			10/14/2022 13:26	10/18/2022 6:59
22100870-027D	DUP 003-WG-20221012	10/12/2022 0:00	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 19:32
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/15/2022 14:13
22100870-028A	EB-01-WQ-20221010	10/10/2022 12:30	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/14/2022 20:51	10/16/2022 20:16
22100870-028B	EB-01-WQ-20221010	10/10/2022 12:30	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 12:10
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:31
22100870-028C	EB-01-WQ-20221010	10/10/2022 12:30	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 15:32
22100870-028D	EB-01-WQ-20221010	10/10/2022 12:30	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 11:24
22100870-029A	EB-02-WQ-20221012	10/12/2022 10:15	10/13/2022 12:45		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			10/24/2022 19:36	10/25/2022 13:31
22100870-029B	EB-02-WQ-20221012	10/12/2022 10:15	10/13/2022 12:45		
	SW-846 3005A, 6010B, Metals by ICP (Total)			10/18/2022 7:52	10/20/2022 12:14
	SW-846 7470A (Total)			10/19/2022 7:29	10/19/2022 18:37
22100870-029C	EB-02-WQ-20221012	10/12/2022 10:15	10/13/2022 12:45		
	SW-846 9012A (Total)			10/14/2022 13:26	10/17/2022 15:36
22100870-029D	EB-02-WQ-20221012	10/12/2022 10:15	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 11:49
22100870-030A	TB-01-WQ-20221010	10/13/2022 12:45	10/13/2022 12:45		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/14/2022 12:14

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

SW-846 9012A (TOTAL)

Batch 198782 **SampType:** MBLK Units **mg/L**
SampID: MBLK 221014 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	10/17/2022

Batch 198782 **SampType:** LCS Units **mg/L**
SampID: LCS 221014 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.026**	0.0250	0	104.4	85	115	10/17/2022

Batch 198782 **SampType:** MS Units **mg/L**
SampID: 22100870-021CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.034**	0.0250	0.008050	103.2	75	125	10/17/2022

Batch 198782 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 22100870-021CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.034**	0.0250	0.008050	104.2	0.03386	0.75	10/17/2022

Batch 198782 **SampType:** MS Units **mg/L**
SampID: 22100870-022CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.039**	0.0250	0.01245	104.9	75	125	10/17/2022

Batch 198782 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 22100870-022CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.040**	0.0250	0.01245	109.1	0.03867	2.67	10/17/2022

Batch 198783 **SampType:** MBLK Units **mg/L**
SampID: MBLK 221014 TCN2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	10/17/2022

Batch 198783 **SampType:** LCS Units **mg/L**
SampID: LCS 221014 TCN2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.027**	0.0250	0	106.4	90	110	10/17/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

SW-846 9012A (TOTAL)

Batch 198783 **SampType:** MS Units **mg/L**

SampID: 22100870-007CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005	E	**0.055**	0.0250	0.03326	86.0	75	125	10/17/2022

Batch 198783 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 22100870-007CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005	E	**0.057**	0.0250	0.03326	96.4	0.05474	4.67	10/17/2022

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

Batch 198852 **SampType:** MBLK Units **mg/L**

SampID: MBLK-198852

Analyses	Cert	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	10/19/2022
Barium		0.0025		**< 0.0025**	0.0007	0	0	-100	100	10/19/2022
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	10/19/2022
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	10/19/2022
Lead		0.0150		**< 0.0150**	0.0040	0	0	-100	100	10/19/2022
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	10/19/2022
Silver		0.0070		**< 0.0070**	0.0027	0	0	-100	100	10/19/2022

Batch 198852 **SampType:** LCS Units **mg/L**

SampID: LCS-198852

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		**0.535**	0.5000	0	107.0	85	115	10/19/2022
Barium		0.0025		**2.08**	2.000	0	104.0	85	115	10/19/2022
Cadmium		0.0020		**0.0512**	0.0500	0	102.4	85	115	10/19/2022
Chromium		0.0050		**0.204**	0.2000	0	102.2	85	115	10/19/2022
Lead		0.0150		**0.514**	0.5000	0	102.9	85	115	10/19/2022
Selenium		0.0400		**0.514**	0.5000	0	102.8	85	115	10/19/2022
Silver		0.0070		**0.0508**	0.0500	0	101.6	85	115	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198852 **SampType:** MS Units **mg/L**

SampID: 22100870-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		**0.537**	0.5000	0	107.4	75	125	10/19/2022
Barium		0.0025		**2.14**	2.000	0.05190	104.4	75	125	10/19/2022
Cadmium		0.0020		**0.0500**	0.0500	0	100.0	75	125	10/19/2022
Chromium		0.0050		**0.203**	0.2000	0	101.4	75	125	10/19/2022
Lead		0.0150		**0.504**	0.5000	0	100.7	75	125	10/19/2022
Selenium		0.0400		**0.509**	0.5000	0	101.7	75	125	10/19/2022
Silver		0.0070		**0.0514**	0.0500	0	102.8	75	125	10/19/2022

Batch 198852 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 22100870-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0250		**0.554**	0.5000	0	110.7	0.5368	3.10	10/19/2022
Barium		0.0025		**2.19**	2.000	0.05190	107.1	2.139	2.54	10/19/2022
Cadmium		0.0020		**0.0515**	0.0500	0	103.0	0.05000	2.96	10/19/2022
Chromium		0.0050		**0.208**	0.2000	0	103.8	0.2028	2.39	10/19/2022
Lead		0.0150		**0.519**	0.5000	0	103.7	0.5035	2.95	10/19/2022
Selenium		0.0400		**0.525**	0.5000	0	105.0	0.5085	3.23	10/19/2022
Silver		0.0070		**0.0528**	0.0500	0	105.6	0.05140	2.69	10/19/2022

Batch 198880 **SampType:** MBLK Units **mg/L**

SampID: MBLK-198880

Analyses	Cert	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	10/19/2022
Barium		0.0025		**< 0.0025**	0.0007	0	0	-100	100	10/19/2022
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	10/19/2022
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	10/19/2022
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	10/19/2022
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	10/19/2022
Silver		0.0070		**< 0.0070**	0.0027	0	0	-100	100	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198880 **SampType:** LCS Units **mg/L**

SampID: LCS-198880

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		**0.524**	0.5000	0	104.9	85	115	10/19/2022
Barium		0.0025		**2.06**	2.000	0	103.2	85	115	10/19/2022
Cadmium		0.0020		**0.0501**	0.0500	0	100.2	85	115	10/19/2022
Chromium		0.0050		**0.201**	0.2000	0	100.4	85	115	10/19/2022
Lead		0.0150		**0.502**	0.5000	0	100.4	85	115	10/19/2022
Selenium		0.0400		**0.497**	0.5000	0	99.3	85	115	10/19/2022
Silver		0.0070		**0.0504**	0.0500	0	100.8	85	115	10/19/2022

Batch 198880 **SampType:** LCSD Units **mg/L** RPD Limit: **20**

SampID: LCSD-198880

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0250		**0.522**	0.5000	0	104.4	0.5245	0.50	10/19/2022
Barium		0.0025		**2.04**	2.000	0	101.8	2.064	1.32	10/19/2022
Cadmium		0.0020		**0.0495**	0.0500	0	99.0	0.05010	1.20	10/19/2022
Chromium		0.0050		**0.199**	0.2000	0	99.5	0.2008	0.90	10/19/2022
Lead		0.0150		**0.497**	0.5000	0	99.5	0.5020	0.94	10/19/2022
Selenium		0.0400		**0.501**	0.5000	0	100.2	0.4967	0.84	10/19/2022
Silver		0.0070		**0.0497**	0.0500	0	99.4	0.05040	1.40	10/19/2022

Batch 198880 **SampType:** MS Units **mg/L**

SampID: 22100870-021BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		**0.534**	0.5000	0	106.9	75	125	10/19/2022
Barium		0.0025		**2.19**	2.000	0.1007	104.3	75	125	10/19/2022
Cadmium		0.0020		**0.0500**	0.0500	0	100.0	75	125	10/19/2022
Chromium		0.0050		**0.202**	0.2000	0	100.9	75	125	10/19/2022
Lead		0.0150		**0.501**	0.5000	0	100.2	75	125	10/19/2022
Selenium		0.0400		**0.497**	0.5000	0	99.4	75	125	10/19/2022
Silver		0.0070		**0.0511**	0.0500	0	102.2	75	125	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198880 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 22100870-021BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0250		**0.528**	0.5000	0	105.5	0.5344	1.26	10/19/2022
Barium		0.0025		**2.16**	2.000	0.1007	103.2	2.187	1.01	10/19/2022
Cadmium		0.0020		**0.0493**	0.0500	0	98.6	0.05000	1.41	10/19/2022
Chromium		0.0050		**0.199**	0.2000	0	99.7	0.2018	1.20	10/19/2022
Lead		0.0150		**0.496**	0.5000	0	99.2	0.5012	1.00	10/19/2022
Selenium		0.0400		**0.503**	0.5000	0	100.6	0.4968	1.20	10/19/2022
Silver		0.0070		**0.0507**	0.0500	0	101.4	0.05110	0.79	10/19/2022

Batch 198880 **SampType:** MS Units **mg/L**

SampID: 22100870-022BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		**0.536**	0.5000	0	107.1	75	125	10/20/2022
Barium		0.0025		**2.16**	2.000	0.1091	102.4	75	125	10/20/2022
Cadmium		0.0020		**0.0501**	0.0500	0	100.2	75	125	10/20/2022
Chromium		0.0050		**0.202**	0.2000	0	101.0	75	125	10/20/2022
Lead		0.0150		**0.503**	0.5000	0	100.6	75	125	10/20/2022
Selenium		0.0400		**0.503**	0.5000	0	100.5	75	125	10/20/2022
Silver		0.0070		**0.0505**	0.0500	0	101.0	75	125	10/20/2022

Batch 198880 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 22100870-022BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0250		**0.535**	0.5000	0	106.9	0.5357	0.21	10/20/2022
Barium		0.0025		**2.16**	2.000	0.1091	102.4	2.157	0.05	10/20/2022
Cadmium		0.0020		**0.0501**	0.0500	0	100.2	0.05010	0.00	10/20/2022
Chromium		0.0050		**0.201**	0.2000	0	100.7	0.2020	0.35	10/20/2022
Lead		0.0150		**0.502**	0.5000	0	100.4	0.5032	0.22	10/20/2022
Selenium		0.0400		**0.504**	0.5000	0	100.8	0.5025	0.32	10/20/2022
Silver		0.0070		**0.0505**	0.0500	0	101.0	0.05050	0.00	10/20/2022

SW-846 7470A (TOTAL)

Batch 198901 **SampType:** MBLK Units **mg/L**

SampID: MBLK-198901

Analyses	Cert	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	10/18/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

SW-846 7470A (TOTAL)

Batch 198901 **SampType:** LCS Units **mg/L**
SampID: LCS-198901

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00505**	0.0050	0	100.9	85	115	10/18/2022

Batch 198901 **SampType:** MS Units **mg/L**
SampID: 22100870-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00507**	0.0050	0	101.4	75	125	10/18/2022

Batch 198901 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 22100870-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00494**	0.0050	0	98.9	0.005069	2.50	10/18/2022

Batch 198902 **SampType:** MBLK Units **mg/L**
SampID: MBLK-198902

Analyses	Cert	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	10/18/2022

Batch 198902 **SampType:** LCS Units **mg/L**
SampID: LCS-198902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00493**	0.0050	0	98.6	85	115	10/18/2022

Batch 198902 **SampType:** MS Units **mg/L**
SampID: 22100870-008BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00505**	0.0050	0	101.0	75	125	10/18/2022

Batch 198902 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 22100870-008BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00493**	0.0050	0	98.6	0.005050	2.39	10/18/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

SW-846 7470A (TOTAL)

Batch 198957 **SampType:** MBLK Units **mg/L**
SampID: MBLK-198957

Analyses	Cert	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	10/20/2022
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	10/20/2022

Batch 198957 **SampType:** LCS Units **mg/L**
SampID: LCS-198957

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00507**	0.0050	0	101.4	85	115	10/19/2022

Batch 198957 **SampType:** MS Units **mg/L**
SampID: 22100870-021BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00529**	0.0050	0	105.8	75	125	10/19/2022

Batch 198957 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 22100870-021BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00518**	0.0050	0	103.6	0.005291	2.10	10/19/2022

Batch 198957 **SampType:** MS Units **mg/L**
SampID: 22100870-022BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00531**	0.0050	0	106.2	75	125	10/19/2022

Batch 198957 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 22100870-022BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00537**	0.0050	0	107.5	0.005308	1.24	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198813 **SampType:** MBLK Units **mg/L**

SampID: MBLK-198813

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**ND**						10/16/2022
Acenaphthylene		0.000100		**ND**						10/16/2022
Anthracene		0.000300		**ND**						10/16/2022
Benzo(a)anthracene		0.000100		**ND**						10/16/2022
Benzo(a)pyrene		0.000200		**ND**						10/16/2022
Benzo(b)fluoranthene		0.000100		**ND**						10/16/2022
Benzo(g,h,i)perylene		0.000200		**ND**						10/16/2022
Benzo(k)fluoranthene		0.000100		**ND**						10/16/2022
Chrysene		0.000100		**ND**						10/16/2022
Dibenzo(a,h)anthracene		0.000200		**ND**						10/16/2022
Fluoranthene		0.000300		**ND**						10/16/2022
Fluorene		0.000200		**ND**						10/16/2022
Indeno(1,2,3-cd)pyrene		0.000200		**ND**						10/16/2022
Naphthalene		0.000400		**ND**						10/16/2022
Phenanthrene		0.000600		**ND**						10/16/2022
Pyrene		0.000200		**ND**						10/16/2022
Surr: 2-Fluorobiphenyl	*			**0.000786**	0.0010		78.6	50.2	105	10/16/2022
Surr: Nitrobenzene-d5	*			**0.000795**	0.0010		79.5	51	103	10/16/2022
Surr: p-Terphenyl-d14	*			**0.00132**	0.0010		132.5	62.6	156	10/16/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198813 **SampType:** LCS Units **mg/L**

SampID: LCS-198813

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**0.00126**	0.0020	0	63.2	57.9	107	10/16/2022
Acenaphthylene		0.000100		**0.00140**	0.0020	0	70.1	56.1	114	10/16/2022
Anthracene		0.000300		**0.00137**	0.0020	0	68.7	59.4	111	10/16/2022
Benzo(a)anthracene		0.000100		**0.00151**	0.0020	0	75.4	59.1	113	10/16/2022
Benzo(a)pyrene		0.000200		**0.00143**	0.0020	0	71.4	59.6	124	10/16/2022
Benzo(b)fluoranthene		0.000100		**0.00150**	0.0020	0	75.1	62.5	118	10/16/2022
Benzo(g,h,i)perylene		0.000200		**0.00164**	0.0020	0	81.9	61.9	126	10/16/2022
Benzo(k)fluoranthene		0.000100		**0.00172**	0.0020	0	86.2	61.3	118	10/16/2022
Chrysene		0.000100		**0.00166**	0.0020	0	82.8	59.9	114	10/16/2022
Dibenzo(a,h)anthracene		0.000200		**0.00176**	0.0020	0	88.0	69	133	10/16/2022
Fluoranthene		0.000300		**0.00159**	0.0020	0	79.4	62.2	121	10/16/2022
Fluorene		0.000200		**0.00136**	0.0020	0	68.1	59.6	114	10/16/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00174**	0.0020	0	86.8	71.8	131	10/16/2022
Naphthalene		0.000400		**0.00121**	0.0020	0	60.6	54.6	102	10/16/2022
Phenanthrene		0.000600		**0.00152**	0.0020	0	75.8	63.2	117	10/16/2022
Pyrene		0.000200		**0.00159**	0.0020	0	79.6	46.7	126	10/16/2022
Surr: 2-Fluorobiphenyl	*			**0.000636**	0.0010		63.6	50.2	105	10/16/2022
Surr: Nitrobenzene-d5	*			**0.000581**	0.0010		58.1	51	103	10/16/2022
Surr: p-Terphenyl-d14	*			**0.000898**	0.0010		89.8	62.6	156	10/16/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198813 **SampType:** LCSD Units **mg/L** RPD Limit: **40**

SampID: LCSD-198813

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene		0.000100		**0.00146**	0.0020	0	72.8	0.001264	14.13	10/16/2022
Acenaphthylene		0.000100		**0.00157**	0.0020	0	78.6	0.001402	11.36	10/16/2022
Anthracene		0.000300		**0.00155**	0.0020	0	77.5	0.001374	12.06	10/16/2022
Benzo(a)anthracene		0.000100		**0.00169**	0.0020	0	84.5	0.001507	11.48	10/16/2022
Benzo(a)pyrene		0.000200		**0.00160**	0.0020	0	79.9	0.001428	11.27	10/16/2022
Benzo(b)fluoranthene		0.000100		**0.00168**	0.0020	0	84.2	0.001502	11.46	10/16/2022
Benzo(g,h,i)perylene		0.000200		**0.00178**	0.0020	0	89.0	0.001637	8.35	10/16/2022
Benzo(k)fluoranthene		0.000100		**0.00187**	0.0020	0	93.4	0.001725	8.01	10/16/2022
Chrysene		0.000100		**0.00187**	0.0020	0	93.5	0.001656	12.12	10/16/2022
Dibenzo(a,h)anthracene		0.000200		**0.00191**	0.0020	0	95.7	0.001760	8.46	10/16/2022
Fluoranthene		0.000300		**0.00174**	0.0020	0	86.8	0.001588	8.94	10/16/2022
Fluorene		0.000200		**0.00153**	0.0020	0	76.7	0.001361	11.99	10/16/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00187**	0.0020	0	93.7	0.001736	7.67	10/16/2022
Naphthalene		0.000400		**0.00140**	0.0020	0	70.0	0.001212	14.50	10/16/2022
Phenanthrene		0.000600		**0.00164**	0.0020	0	81.8	0.001516	7.64	10/16/2022
Pyrene		0.000200		**0.00173**	0.0020	0	86.6	0.001592	8.48	10/16/2022
Surr: 2-Fluorobiphenyl	*			**0.000632**	0.0010		63.2			10/16/2022
Surr: Nitrobenzene-d5	*			**0.000632**	0.0010		63.2			10/16/2022
Surr: p-Terphenyl-d14	*			**0.000928**	0.0010		92.8			10/16/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198882 **SampType:** MBLK Units **mg/L**

SampID: MBLK-198882-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**ND**						10/19/2022
Acenaphthylene		0.000100		**ND**						10/19/2022
Anthracene		0.000300		**ND**						10/19/2022
Benzo(a)anthracene		0.000100		**ND**						10/19/2022
Benzo(a)pyrene		0.000200		**ND**						10/19/2022
Benzo(b)fluoranthene		0.000100		**ND**						10/19/2022
Benzo(g,h,i)perylene		0.000200		**ND**						10/19/2022
Benzo(k)fluoranthene		0.000100		**ND**						10/19/2022
Chrysene		0.000100		**ND**						10/19/2022
Dibenzo(a,h)anthracene		0.000200		**ND**						10/19/2022
Fluoranthene		0.000300		**ND**						10/19/2022
Fluorene		0.000200		**ND**						10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200		**ND**						10/19/2022
Naphthalene		0.000400		**ND**						10/19/2022
Phenanthrene		0.000600		**ND**						10/19/2022
Pyrene		0.000200		**ND**						10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000799**	0.0010		79.9	50.2	105	10/19/2022
Surr: Nitrobenzene-d5	*			**0.000771**	0.0010		77.1	51	103	10/19/2022
Surr: p-Terphenyl-d14	*			**0.00120**	0.0010		120.2	62.6	156	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198882 **SampType:** LCS Units **mg/L**

SampID: LCS-198882

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**0.00143**	0.0020	0	71.3	57.9	107	10/18/2022
Acenaphthylene		0.000100		**0.00156**	0.0020	0	77.8	56.1	114	10/18/2022
Anthracene		0.000300		**0.00152**	0.0020	0	76.2	59.4	111	10/18/2022
Benzo(a)anthracene		0.000100		**0.00167**	0.0020	0	83.6	59.1	113	10/18/2022
Benzo(a)pyrene		0.000200		**0.00162**	0.0020	0	80.9	59.6	124	10/18/2022
Benzo(b)fluoranthene		0.000100		**0.00170**	0.0020	0	84.8	62.5	118	10/18/2022
Benzo(g,h,i)perylene		0.000200		**0.00181**	0.0020	0	90.4	61.9	126	10/18/2022
Benzo(k)fluoranthene		0.000100		**0.00191**	0.0020	0	95.5	61.3	118	10/18/2022
Chrysene		0.000100		**0.00193**	0.0020	0	96.5	59.9	114	10/18/2022
Dibenzo(a,h)anthracene		0.000200		**0.00199**	0.0020	0	99.3	69	133	10/18/2022
Fluoranthene		0.000300		**0.00181**	0.0020	0	90.7	62.2	121	10/18/2022
Fluorene		0.000200		**0.00151**	0.0020	0	75.4	59.6	114	10/18/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00195**	0.0020	0	97.4	71.8	131	10/18/2022
Naphthalene		0.000400		**0.00132**	0.0020	0	65.9	54.6	102	10/18/2022
Phenanthrene		0.000600		**0.00162**	0.0020	0	81.0	63.2	117	10/18/2022
Pyrene		0.000200		**0.00178**	0.0020	0	88.8	46.7	126	10/18/2022
Surr: 2-Fluorobiphenyl	*			**0.000742**	0.0010		74.2	50.2	105	10/18/2022
Surr: Nitrobenzene-d5	*			**0.000780**	0.0010		78.0	51	103	10/18/2022
Surr: p-Terphenyl-d14	*			**0.00127**	0.0010		126.6	62.6	156	10/18/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198882 **SampType:** LCSD Units **mg/L** RPD Limit: **40**

SampID: LCSD-198882

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene		0.000100		**0.00127**	0.0020	0	63.5	0.001427	11.63	10/18/2022
Acenaphthylene		0.000100		**0.00137**	0.0020	0	68.4	0.001556	12.85	10/18/2022
Anthracene		0.000300		**0.00144**	0.0020	0	72.2	0.001523	5.35	10/18/2022
Benzo(a)anthracene		0.000100		**0.00160**	0.0020	0	80.1	0.001673	4.31	10/18/2022
Benzo(a)pyrene		0.000200		**0.00154**	0.0020	0	77.1	0.001618	4.82	10/18/2022
Benzo(b)fluoranthene		0.000100		**0.00160**	0.0020	0	80.0	0.001695	5.80	10/18/2022
Benzo(g,h,i)perylene		0.000200		**0.00174**	0.0020	0	86.8	0.001808	4.11	10/18/2022
Benzo(k)fluoranthene		0.000100		**0.00177**	0.0020	0	88.6	0.001910	7.53	10/18/2022
Chrysene		0.000100		**0.00183**	0.0020	0	91.4	0.001930	5.36	10/18/2022
Dibenzo(a,h)anthracene		0.000200		**0.00189**	0.0020	0	94.7	0.001986	4.75	10/18/2022
Fluoranthene		0.000300		**0.00168**	0.0020	0	84.2	0.001814	7.48	10/18/2022
Fluorene		0.000200		**0.00135**	0.0020	0	67.4	0.001508	11.23	10/18/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00183**	0.0020	0	91.7	0.001949	6.06	10/18/2022
Naphthalene		0.000400		**0.00123**	0.0020	0	61.3	0.001318	7.25	10/18/2022
Phenanthrene		0.000600		**0.00151**	0.0020	0	75.5	0.001619	6.95	10/18/2022
Pyrene		0.000200		**0.00169**	0.0020	0	84.4	0.001776	5.05	10/18/2022
Surr: 2-Fluorobiphenyl	*			**0.000666**	0.0010		66.6			10/18/2022
Surr: Nitrobenzene-d5	*			**0.000677**	0.0010		67.7			10/18/2022
Surr: p-Terphenyl-d14	*			**0.00113**	0.0010		112.9			10/18/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198882 **SampType:** MS Units **mg/L**

SampID: 22100870-022AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**0.00108**	0.0020	0	54.1	28.3	133	10/19/2022
Acenaphthylene		0.000100		**0.00116**	0.0020	0	58.1	5	176	10/19/2022
Anthracene		0.000300		**0.00113**	0.0020	0	56.3	34.6	131	10/19/2022
Benzo(a)anthracene		0.000100		**0.00116**	0.0020	0	58.1	40.3	132	10/19/2022
Benzo(a)pyrene		0.000200		**0.00113**	0.0020	0	56.6	40.8	132	10/19/2022
Benzo(b)fluoranthene		0.000100		**0.00116**	0.0020	0	58.2	41.9	132	10/19/2022
Benzo(g,h,i)perylene		0.000200		**0.00128**	0.0020	0	63.9	46	132	10/19/2022
Benzo(k)fluoranthene		0.000100		**0.00138**	0.0020	0	68.8	49.4	126	10/19/2022
Chrysene		0.000100		**0.00135**	0.0020	0	67.4	46.1	129	10/19/2022
Dibenzo(a,h)anthracene		0.000200		**0.00138**	0.0020	0	68.8	42.1	146	10/19/2022
Fluoranthene		0.000300		**0.00127**	0.0020	0	63.3	23.9	164	10/19/2022
Fluorene		0.000200		**0.00118**	0.0020	0	58.8	24.3	148	10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00138**	0.0020	0	69.1	26.6	157	10/19/2022
Naphthalene		0.000400		**0.00107**	0.0020	0	53.7	24.2	132	10/19/2022
Phenanthrene		0.000600		**0.00116**	0.0020	0	58.1	36.6	139	10/19/2022
Pyrene		0.000200		**0.00124**	0.0020	0	62.1	14.6	169	10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000490**	0.0010		49.0	21.4	142	10/19/2022
Surr: Nitrobenzene-d5	*			**0.000444**	0.0010		44.4	15	163	10/19/2022
Surr: p-Terphenyl-d14	*			**0.000632**	0.0010		63.2	10	173	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198882 **SampType:** MSD Units **mg/L** RPD Limit: **40**

SampID: 22100870-022AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene		0.000100	R	**0.00177**	0.0020	0	88.5	0.001082	48.28	10/19/2022
Acenaphthylene		0.000100	R	**0.00190**	0.0020	0	94.8	0.001162	47.99	10/19/2022
Anthracene		0.000300	R	**0.00184**	0.0020	0	92.2	0.001126	48.29	10/19/2022
Benzo(a)anthracene		0.000100	R	**0.00187**	0.0020	0	93.6	0.001162	46.85	10/19/2022
Benzo(a)pyrene		0.000200	R	**0.00183**	0.0020	0	91.7	0.001132	47.39	10/19/2022
Benzo(b)fluoranthene		0.000100	R	**0.00193**	0.0020	0	96.6	0.001163	49.65	10/19/2022
Benzo(g,h,i)perylene		0.000200	R	**0.00205**	0.0020	0	102.7	0.001279	46.51	10/19/2022
Benzo(k)fluoranthene		0.000100	R	**0.00210**	0.0020	0	105.0	0.001375	41.71	10/19/2022
Chrysene		0.000100	R	**0.00218**	0.0020	0	108.8	0.001348	47.00	10/19/2022
Dibenzo(a,h)anthracene		0.000200	R	**0.00225**	0.0020	0	112.3	0.001375	48.11	10/19/2022
Fluoranthene		0.000300	R	**0.00204**	0.0020	0	102.2	0.001266	47.04	10/19/2022
Fluorene		0.000200	R	**0.00188**	0.0020	0	94.2	0.001176	46.24	10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200	R	**0.00220**	0.0020	0	110.2	0.001383	45.78	10/19/2022
Naphthalene		0.000400	R	**0.00172**	0.0020	0	86.0	0.001074	46.31	10/19/2022
Phenanthrene		0.000600	R	**0.00192**	0.0020	0	96.1	0.001163	49.24	10/19/2022
Pyrene		0.000200	R	**0.00204**	0.0020	0	102.2	0.001242	48.76	10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000769**	0.0010		76.9			10/19/2022
Surr: Nitrobenzene-d5	*			**0.000739**	0.0010		73.9			10/19/2022
Surr: p-Terphenyl-d14	*			**0.00104**	0.0010		104.3			10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198941 **SampType:** MBLK Units **mg/L**

SampID: MBLK-198941

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**ND**						10/19/2022
Acenaphthylene		0.000100		**ND**						10/19/2022
Anthracene		0.000300		**ND**						10/19/2022
Benzo(a)anthracene		0.000100		**ND**						10/19/2022
Benzo(a)pyrene		0.000200		**ND**						10/19/2022
Benzo(b)fluoranthene		0.000100		**ND**						10/19/2022
Benzo(g,h,i)perylene		0.000200		**ND**						10/19/2022
Benzo(k)fluoranthene		0.000100		**ND**						10/19/2022
Chrysene		0.000100		**ND**						10/19/2022
Dibenzo(a,h)anthracene		0.000200		**ND**						10/19/2022
Fluoranthene		0.000300		**ND**						10/19/2022
Fluorene		0.000200		**ND**						10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200		**ND**						10/19/2022
Naphthalene		0.000400		**ND**						10/19/2022
Phenanthrene		0.000600		**ND**						10/19/2022
Pyrene		0.000200		**ND**						10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000790**	0.0010		79.0	50.2	105	10/19/2022
Surr: Nitrobenzene-d5	*			**0.000756**	0.0010		75.6	51	103	10/19/2022
Surr: p-Terphenyl-d14	*			**0.00131**	0.0010		130.8	62.6	156	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198941 **SampType:** LCS Units **mg/L**

SampID: LCS-198941

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100	S	**0.000976**	0.0020	0	48.8	57.9	107	10/19/2022
Acenaphthylene		0.000100	S	**0.00103**	0.0020	0	51.4	56.1	114	10/19/2022
Anthracene		0.000300	S	**0.00102**	0.0020	0	50.8	59.4	111	10/19/2022
Benzo(a)anthracene		0.000100	S	**0.00106**	0.0020	0	52.8	59.1	113	10/19/2022
Benzo(a)pyrene		0.000200	S	**0.000956**	0.0020	0	47.8	59.6	124	10/19/2022
Benzo(b)fluoranthene		0.000100	S	**0.000970**	0.0020	0	48.5	62.5	118	10/19/2022
Benzo(g,h,i)perylene		0.000200	S	**0.00107**	0.0020	0	53.7	61.9	126	10/19/2022
Benzo(k)fluoranthene		0.000100	S	**0.00115**	0.0020	0	57.6	61.3	118	10/19/2022
Chrysene		0.000100	S	**0.00109**	0.0020	0	54.6	59.9	114	10/19/2022
Dibenzo(a,h)anthracene		0.000200	S	**0.00114**	0.0020	0	56.8	69	133	10/19/2022
Fluoranthene		0.000300	S	**0.00117**	0.0020	0	58.6	62.2	121	10/19/2022
Fluorene		0.000200	S	**0.00102**	0.0020	0	50.8	59.6	114	10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200	S	**0.00117**	0.0020	0	58.6	71.8	131	10/19/2022
Naphthalene		0.000400	S	**0.000965**	0.0020	0	48.2	54.6	102	10/19/2022
Phenanthrene		0.000600	S	**0.00112**	0.0020	0	56.2	63.2	117	10/19/2022
Pyrene		0.000200		**0.00115**	0.0020	0	57.4	46.7	126	10/19/2022
Surr: 2-Fluorobiphenyl	*		S	**0.000493**	0.0010		49.3	50.2	105	10/19/2022
Surr: Nitrobenzene-d5	*		S	**0.000455**	0.0010		45.5	51	103	10/19/2022
Surr: p-Terphenyl-d14	*			**0.000662**	0.0010		66.2	62.6	156	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198941 **SampType:** LCSD Units **mg/L** RPD Limit: **40**

SampID: LCSD-198941

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene		0.000100	R	**0.00177**	0.0020	0	88.3	0.0009763	57.55	10/19/2022
Acenaphthylene		0.000100	R	**0.00187**	0.0020	0	93.7	0.001028	58.23	10/19/2022
Anthracene		0.000300	R	**0.00172**	0.0020	0	86.1	0.001017	51.50	10/19/2022
Benzo(a)anthracene		0.000100	R	**0.00183**	0.0020	0	91.7	0.001056	53.82	10/19/2022
Benzo(a)pyrene		0.000200	R	**0.00174**	0.0020	0	86.9	0.0009565	57.99	10/19/2022
Benzo(b)fluoranthene		0.000100	R	**0.00188**	0.0020	0	93.8	0.0009702	63.67	10/19/2022
Benzo(g,h,i)perylene		0.000200	R	**0.00195**	0.0020	0	97.3	0.001074	57.74	10/19/2022
Benzo(k)fluoranthene		0.000100	R	**0.00203**	0.0020	0	101.7	0.001152	55.38	10/19/2022
Chrysene		0.000100	R	**0.00199**	0.0020	0	99.7	0.001091	58.51	10/19/2022
Dibenzo(a,h)anthracene		0.000200	R	**0.00210**	0.0020	0	104.8	0.001135	59.46	10/19/2022
Fluoranthene		0.000300	R	**0.00200**	0.0020	0	100.0	0.001172	52.18	10/19/2022
Fluorene		0.000200	R	**0.00181**	0.0020	0	90.6	0.001017	56.24	10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200	R	**0.00206**	0.0020	0	102.9	0.001171	54.97	10/19/2022
Naphthalene		0.000400	R	**0.00172**	0.0020	0	86.1	0.0009650	56.37	10/19/2022
Phenanthrene		0.000600	R	**0.00186**	0.0020	0	93.0	0.001123	49.37	10/19/2022
Pyrene		0.000200	R	**0.00194**	0.0020	0	97.0	0.001147	51.37	10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000918**	0.0010		91.8			10/19/2022
Surr: Nitrobenzene-d5	*			**0.000859**	0.0010		85.9			10/19/2022
Surr: p-Terphenyl-d14	*		S	**0.00175**	0.0010		174.6			10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198955 **SampType:** MBLK Units **mg/L**

SampID: MBLK-198955

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**ND**						10/19/2022
Acenaphthylene		0.000100		**ND**						10/19/2022
Anthracene		0.000300		**ND**						10/19/2022
Benzo(a)anthracene		0.000100		**ND**						10/19/2022
Benzo(a)pyrene		0.000200		**ND**						10/19/2022
Benzo(b)fluoranthene		0.000100		**ND**						10/19/2022
Benzo(g,h,i)perylene		0.000200		**ND**						10/19/2022
Benzo(k)fluoranthene		0.000100		**ND**						10/19/2022
Chrysene		0.000100		**ND**						10/19/2022
Dibenzo(a,h)anthracene		0.000200		**ND**						10/19/2022
Fluoranthene		0.000300		**ND**						10/19/2022
Fluorene		0.000200		**ND**						10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200		**ND**						10/19/2022
Naphthalene		0.000400		**ND**						10/19/2022
Phenanthrene		0.000600		**ND**						10/19/2022
Pyrene		0.000200		**ND**						10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000784**	0.0010		78.4	50.2	105	10/19/2022
Surr: Nitrobenzene-d5	*			**0.000740**	0.0010		74.0	51	103	10/19/2022
Surr: p-Terphenyl-d14	*			**0.00116**	0.0010		116.5	62.6	156	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198955 **SampType:** LCS Units **mg/L**

SampID: LCS-198955

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**0.00171**	0.0020	0	85.4	57.9	107	10/19/2022
Acenaphthylene		0.000100		**0.00187**	0.0020	0	93.5	56.1	114	10/19/2022
Anthracene		0.000300		**0.00172**	0.0020	0	85.8	59.4	111	10/19/2022
Benzo(a)anthracene		0.000100		**0.00178**	0.0020	0	89.1	59.1	113	10/19/2022
Benzo(a)pyrene		0.000200		**0.00170**	0.0020	0	84.9	59.6	124	10/19/2022
Benzo(b)fluoranthene		0.000100		**0.00182**	0.0020	0	91.0	62.5	118	10/19/2022
Benzo(g,h,i)perylene		0.000200		**0.00197**	0.0020	0	98.7	61.9	126	10/19/2022
Benzo(k)fluoranthene		0.000100		**0.00201**	0.0020	0	100.5	61.3	118	10/19/2022
Chrysene		0.000100		**0.00188**	0.0020	0	93.8	59.9	114	10/19/2022
Dibenzo(a,h)anthracene		0.000200		**0.00215**	0.0020	0	107.4	69	133	10/19/2022
Fluoranthene		0.000300		**0.00192**	0.0020	0	96.0	62.2	121	10/19/2022
Fluorene		0.000200		**0.00178**	0.0020	0	89.2	59.6	114	10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00210**	0.0020	0	104.9	71.8	131	10/19/2022
Naphthalene		0.000400		**0.00169**	0.0020	0	84.3	54.6	102	10/19/2022
Phenanthrene		0.000600		**0.00184**	0.0020	0	92.0	63.2	117	10/19/2022
Pyrene		0.000200		**0.00191**	0.0020	0	95.3	46.7	126	10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000774**	0.0010		77.4	50.2	105	10/19/2022
Surr: Nitrobenzene-d5	*			**0.000750**	0.0010		75.0	51	103	10/19/2022
Surr: p-Terphenyl-d14	*			**0.000903**	0.0010		90.3	62.6	156	10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198955 **SampType:** LCSD Units **mg/L** RPD Limit: **40**

SampID: LCSD-198955

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene		0.000100		**0.00158**	0.0020	0	79.0	0.001708	7.76	10/19/2022
Acenaphthylene		0.000100		**0.00168**	0.0020	0	84.2	0.001871	10.52	10/19/2022
Anthracene		0.000300		**0.00160**	0.0020	0	80.2	0.001717	6.78	10/19/2022
Benzo(a)anthracene		0.000100		**0.00170**	0.0020	0	85.2	0.001782	4.48	10/19/2022
Benzo(a)pyrene		0.000200		**0.00159**	0.0020	0	79.6	0.001698	6.49	10/19/2022
Benzo(b)fluoranthene		0.000100		**0.00169**	0.0020	0	84.7	0.001821	7.16	10/19/2022
Benzo(g,h,i)perylene		0.000200		**0.00182**	0.0020	0	91.1	0.001973	7.92	10/19/2022
Benzo(k)fluoranthene		0.000100		**0.00197**	0.0020	0	98.3	0.002011	2.23	10/19/2022
Chrysene		0.000100		**0.00180**	0.0020	0	90.2	0.001876	3.85	10/19/2022
Dibenzo(a,h)anthracene		0.000200		**0.00189**	0.0020	0	94.7	0.002147	12.58	10/19/2022
Fluoranthene		0.000300		**0.00180**	0.0020	0	90.0	0.001920	6.44	10/19/2022
Fluorene		0.000200		**0.00164**	0.0020	0	82.0	0.001784	8.42	10/19/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00202**	0.0020	0	101.0	0.002097	3.78	10/19/2022
Naphthalene		0.000400		**0.00157**	0.0020	0	78.4	0.001685	7.15	10/19/2022
Phenanthrene		0.000600		**0.00170**	0.0020	0	84.8	0.001840	8.19	10/19/2022
Pyrene		0.000200		**0.00176**	0.0020	0	87.9	0.001907	8.17	10/19/2022
Surr: 2-Fluorobiphenyl	*			**0.000821**	0.0010		82.1			10/19/2022
Surr: Nitrobenzene-d5	*			**0.000743**	0.0010		74.3			10/19/2022
Surr: p-Terphenyl-d14	*			**0.00103**	0.0010		103.2			10/19/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198955 **SampType:** MS Units **mg/L**

SampID: 22100870-021AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**0.00134**	0.0020	0	67.0	28.3	133	10/21/2022
Acenaphthylene		0.000100		**0.00145**	0.0020	0	72.6	5	176	10/21/2022
Anthracene		0.000300		**0.00136**	0.0020	0	67.9	34.6	131	10/21/2022
Benzo(a)anthracene		0.000100		**0.00150**	0.0020	0	74.9	40.3	132	10/21/2022
Benzo(a)pyrene		0.000200		**0.00143**	0.0020	0	71.5	40.8	132	10/21/2022
Benzo(b)fluoranthene		0.000100		**0.00146**	0.0020	0	73.0	41.9	132	10/21/2022
Benzo(g,h,i)perylene		0.000200		**0.00157**	0.0020	0	78.6	46	132	10/21/2022
Benzo(k)fluoranthene		0.000100		**0.00173**	0.0020	0	86.3	49.4	126	10/21/2022
Chrysene		0.000100		**0.00175**	0.0020	0	87.5	46.1	129	10/21/2022
Dibenzo(a,h)anthracene		0.000200		**0.00162**	0.0020	0	81.2	42.1	146	10/21/2022
Fluoranthene		0.000300		**0.00157**	0.0020	0.0003233	62.4	23.9	164	10/21/2022
Fluorene		0.000200		**0.00138**	0.0020	0	68.8	24.3	148	10/21/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00171**	0.0020	0	85.5	26.6	157	10/21/2022
Naphthalene		0.000400	S	**0.00153**	0.0020	0.004542	-150.7	24.2	132	10/21/2022
Phenanthrene		0.000600		**0.00146**	0.0020	0.0005785	43.8	36.6	139	10/21/2022
Pyrene		0.000200		**0.00159**	0.0020	0.0002104	69.0	14.6	169	10/21/2022
Surr: 2-Fluorobiphenyl	*			**0.000742**	0.0010		74.2	21.4	142	10/21/2022
Surr: Nitrobenzene-d5	*			**0.000711**	0.0010		71.1	15	163	10/21/2022
Surr: p-Terphenyl-d14	*			**0.000892**	0.0010		89.2	10	173	10/21/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198955 **SampType:** MSD Units **mg/L** RPD Limit: **40**

SampID: 22100870-021AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene		0.000100		**0.00168**	0.0020	0	84.1	0.001341	22.51	10/21/2022
Acenaphthylene		0.000100		**0.00177**	0.0020	0	88.7	0.001453	19.95	10/21/2022
Anthracene		0.000300		**0.00163**	0.0020	0	81.7	0.001357	18.50	10/21/2022
Benzo(a)anthracene		0.000100		**0.00171**	0.0020	0	85.4	0.001498	13.03	10/21/2022
Benzo(a)pyrene		0.000200		**0.00161**	0.0020	0	80.4	0.001430	11.72	10/21/2022
Benzo(b)fluoranthene		0.000100		**0.00165**	0.0020	0	82.4	0.001461	12.04	10/21/2022
Benzo(g,h,i)perylene		0.000200		**0.00177**	0.0020	0	88.5	0.001572	11.88	10/21/2022
Benzo(k)fluoranthene		0.000100		**0.00194**	0.0020	0	97.0	0.001726	11.61	10/21/2022
Chrysene		0.000100		**0.00202**	0.0020	0	101.0	0.001750	14.28	10/21/2022
Dibenzo(a,h)anthracene		0.000200		**0.00193**	0.0020	0	96.6	0.001625	17.25	10/21/2022
Fluoranthene		0.000300		**0.00184**	0.0020	0.0003233	75.8	0.001570	15.76	10/21/2022
Fluorene		0.000200		**0.00172**	0.0020	0	86.2	0.001376	22.45	10/21/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00201**	0.0020	0	100.5	0.001711	16.07	10/21/2022
Naphthalene		0.000400	S	**0.00167**	0.0020	0.004542	-143.7	0.001528	8.78	10/21/2022
Phenanthrene		0.000600		**0.00174**	0.0020	0.0005785	58.1	0.001455	17.85	10/21/2022
Pyrene		0.000200		**0.00188**	0.0020	0.0002104	83.3	0.001591	16.49	10/21/2022
Surr: 2-Fluorobiphenyl	*			**0.000905**	0.0010		90.5			10/21/2022
Surr: Nitrobenzene-d5	*			**0.000794**	0.0010		79.4			10/21/2022
Surr: p-Terphenyl-d14	*			**0.00105**	0.0010		105.2			10/21/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 199231 **SampType:** MBLK Units **mg/L**

SampID: MBLK-199231

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**ND**						10/25/2022
Acenaphthylene		0.000100		**ND**						10/25/2022
Anthracene		0.000300		**ND**						10/25/2022
Benzo(a)anthracene		0.000100		**ND**						10/25/2022
Benzo(a)pyrene		0.000200		**ND**						10/25/2022
Benzo(b)fluoranthene		0.000100		**ND**						10/25/2022
Benzo(g,h,i)perylene		0.000200		**ND**						10/25/2022
Benzo(k)fluoranthene		0.000100		**ND**						10/25/2022
Chrysene		0.000100		**ND**						10/25/2022
Dibenzo(a,h)anthracene		0.000200		**ND**						10/25/2022
Fluoranthene		0.000300		**ND**						10/25/2022
Fluorene		0.000200		**ND**						10/25/2022
Indeno(1,2,3-cd)pyrene		0.000200		**ND**						10/25/2022
Naphthalene		0.000400		**ND**						10/25/2022
Phenanthrene		0.000600		**ND**						10/25/2022
Pyrene		0.000200		**ND**						10/25/2022
Surr: 2-Fluorobiphenyl	*			**0.000660**	0.0010		66.0	50.2	105	10/25/2022
Surr: Nitrobenzene-d5	*			**0.000742**	0.0010		74.2	51	103	10/25/2022
Surr: p-Terphenyl-d14	*			**0.00121**	0.0010		120.8	62.6	156	10/25/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 199231 **SampType:** LCS Units **mg/L**

SampID: LCS-199231

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene		0.000100		**0.00167**	0.0020	0	83.4	57.9	107	10/25/2022
Acenaphthylene		0.000100		**0.00175**	0.0020	0	87.7	56.1	114	10/25/2022
Anthracene		0.000300		**0.00160**	0.0020	0	79.8	59.4	111	10/25/2022
Benzo(a)anthracene		0.000100		**0.00166**	0.0020	0	82.9	59.1	113	10/25/2022
Benzo(a)pyrene		0.000200		**0.00165**	0.0020	0	82.7	59.6	124	10/25/2022
Benzo(b)fluoranthene		0.000100		**0.00164**	0.0020	0	82.2	62.5	118	10/25/2022
Benzo(g,h,i)perylene		0.000200		**0.00190**	0.0020	0	94.8	61.9	126	10/25/2022
Benzo(k)fluoranthene		0.000100		**0.00204**	0.0020	0	101.9	61.3	118	10/25/2022
Chrysene		0.000100		**0.00200**	0.0020	0	99.9	59.9	114	10/25/2022
Dibenzo(a,h)anthracene		0.000200		**0.00194**	0.0020	0	97.2	69	133	10/25/2022
Fluoranthene		0.000300		**0.00201**	0.0020	0	100.6	62.2	121	10/25/2022
Fluorene		0.000200		**0.00174**	0.0020	0	87.2	59.6	114	10/25/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00203**	0.0020	0	101.4	71.8	131	10/25/2022
Naphthalene		0.000400		**0.00160**	0.0020	0	80.1	54.6	102	10/25/2022
Phenanthrene		0.000600		**0.00174**	0.0020	0	87.2	63.2	117	10/25/2022
Pyrene		0.000200		**0.00206**	0.0020	0	103.0	46.7	126	10/25/2022
Surr: 2-Fluorobiphenyl	*			**0.000764**	0.0010		76.4	50.2	105	10/25/2022
Surr: Nitrobenzene-d5	*			**0.000788**	0.0010		78.8	51	103	10/25/2022
Surr: p-Terphenyl-d14	*			**0.00124**	0.0010		123.7	62.6	156	10/25/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 199231 **SampType:** LCSD Units **mg/L** RPD Limit: **40**

SampID: LCSD-199231

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene		0.000100		**0.00179**	0.0020	0	89.3	0.001667	6.91	10/25/2022
Acenaphthylene		0.000100		**0.00190**	0.0020	0	95.1	0.001753	8.11	10/25/2022
Anthracene		0.000300		**0.00170**	0.0020	0	85.0	0.001597	6.32	10/25/2022
Benzo(a)anthracene		0.000100		**0.00180**	0.0020	0	90.1	0.001658	8.36	10/25/2022
Benzo(a)pyrene		0.000200		**0.00174**	0.0020	0	87.1	0.001655	5.09	10/25/2022
Benzo(b)fluoranthene		0.000100		**0.00182**	0.0020	0	91.1	0.001644	10.30	10/25/2022
Benzo(g,h,i)perylene		0.000200		**0.00205**	0.0020	0	102.5	0.001897	7.73	10/25/2022
Benzo(k)fluoranthene		0.000100		**0.00211**	0.0020	0	105.5	0.002038	3.46	10/25/2022
Chrysene		0.000100		**0.00213**	0.0020	0	106.7	0.001997	6.62	10/25/2022
Dibenzo(a,h)anthracene		0.000200		**0.00208**	0.0020	0	103.8	0.001945	6.51	10/25/2022
Fluoranthene		0.000300		**0.00208**	0.0020	0	103.8	0.002012	3.08	10/25/2022
Fluorene		0.000200		**0.00182**	0.0020	0	91.2	0.001745	4.42	10/25/2022
Indeno(1,2,3-cd)pyrene		0.000200		**0.00222**	0.0020	0	110.9	0.002028	9.00	10/25/2022
Naphthalene		0.000400		**0.00172**	0.0020	0	86.0	0.001601	7.20	10/25/2022
Phenanthrene		0.000600		**0.00189**	0.0020	0	94.5	0.001743	8.04	10/25/2022
Pyrene		0.000200		**0.00205**	0.0020	0	102.7	0.002059	0.25	10/25/2022
Surr: 2-Fluorobiphenyl	*			**0.000856**	0.0010		85.6			10/25/2022
Surr: Nitrobenzene-d5	*			**0.000836**	0.0010		83.6			10/25/2022
Surr: p-Terphenyl-d14	*			**0.00122**	0.0010		121.5			10/25/2022

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

Batch 198786 **SampType:** MBLK Units **µg/L**

SampID: MBLK-AM221013A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**ND**						10/13/2022
Ethylbenzene	*	2.0		**ND**						10/13/2022
Toluene	*	2.0		**ND**						10/13/2022
Xylenes, Total	*	4.0		**ND**						10/13/2022
Surr: 1,2-Dichloroethane-d4	*			**44.4**	50.00		88.8	80	120	10/13/2022
Surr: 4-Bromofluorobenzene	*			**45.9**	50.00		91.9	80	120	10/13/2022
Surr: Dibromofluoromethane	*			**51.1**	50.00		102.2	80	120	10/13/2022
Surr: Toluene-d8	*			**48.8**	50.00		97.6	80	120	10/13/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198786 **SampType:** LCS Units µg/L

SampID: LCS-AM221013A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**53.8**	50.00	0	107.6	78.5	119	10/13/2022
Ethylbenzene	*	2.0		**55.2**	50.00	0	110.5	78.2	114	10/13/2022
Toluene	*	2.0		**54.1**	50.00	0	108.2	78.6	112	10/13/2022
Xylenes, Total	*	4.0		**166**	150.0	0	110.5	78.3	114	10/13/2022
Surr: 1,2-Dichloroethane-d4	*			**44.7**	50.00		89.5	80	120	10/13/2022
Surr: 4-Bromofluorobenzene	*			**45.4**	50.00		90.7	80	120	10/13/2022
Surr: Dibromofluoromethane	*			**51.4**	50.00		102.7	80	120	10/13/2022
Surr: Toluene-d8	*			**49.4**	50.00		98.7	80	120	10/13/2022

Batch 198791 **SampType:** MBLK Units µg/L

SampID: MBLK-AE221014A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**ND**						10/14/2022
Ethylbenzene	*	2.0		**ND**						10/14/2022
Toluene	*	2.0		**ND**						10/14/2022
Xylenes, Total	*	4.0		**ND**						10/14/2022
Surr: 1,2-Dichloroethane-d4	*			**50.2**	50.00		100.5	80	120	10/14/2022
Surr: 4-Bromofluorobenzene	*			**46.3**	50.00		92.7	80	120	10/14/2022
Surr: Dibromofluoromethane	*			**53.3**	50.00		106.7	80	120	10/14/2022
Surr: Toluene-d8	*			**47.4**	50.00		94.8	80	120	10/14/2022

Batch 198791 **SampType:** LCS Units µg/L

SampID: LCS-AE221014A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**55.1**	50.00	0	110.2	78.5	119	10/14/2022
Ethylbenzene	*	2.0		**52.0**	50.00	0	104.0	78.2	114	10/14/2022
Toluene	*	2.0		**51.3**	50.00	0	102.7	78.6	112	10/14/2022
Xylenes, Total	*	4.0		**156**	150.0	0	104.3	78.3	114	10/14/2022
Surr: 1,2-Dichloroethane-d4	*			**49.7**	50.00		99.5	80	120	10/14/2022
Surr: 4-Bromofluorobenzene	*			**47.0**	50.00		93.9	80	120	10/14/2022
Surr: Dibromofluoromethane	*			**53.5**	50.00		107.1	80	120	10/14/2022
Surr: Toluene-d8	*			**47.8**	50.00		95.6	80	120	10/14/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198791 **SampType:** LCSD Units µg/L RPD Limit: 15.9

SampID: LCSD-AE221014A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	*	0.5		**54.5**	50.00	0	109.0	55.12	1.09	10/14/2022
Ethylbenzene	*	2.0		**51.2**	50.00	0	102.4	52.02	1.57	10/14/2022
Toluene	*	2.0		**50.6**	50.00	0	101.2	51.33	1.47	10/14/2022
Xylenes, Total	*	4.0		**155**	150.0	0	103.4	156.4	0.83	10/14/2022
Surr: 1,2-Dichloroethane-d4	*			**49.4**	50.00		98.7			10/14/2022
Surr: 4-Bromofluorobenzene	*			**47.2**	50.00		94.3			10/14/2022
Surr: Dibromofluoromethane	*			**53.8**	50.00		107.5			10/14/2022
Surr: Toluene-d8	*			**47.4**	50.00		94.8			10/14/2022

Batch 198791 **SampType:** MS Units µg/L

SampID: 22100870-021DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene		0.5		**48.8**	50.00	0	97.7	72	120	10/14/2022
Ethylbenzene		2.0		**44.2**	50.00	0	88.5	74.8	115	10/14/2022
Toluene		2.0		**44.6**	50.00	0	89.3	70.6	109	10/14/2022
Xylenes, Total		4.0		**90.2**	100.0	0	90.2	72.1	113	10/14/2022
Surr: 1,2-Dichloroethane-d4	*			**51.5**	50.00		103.1	80	120	10/14/2022
Surr: 4-Bromofluorobenzene	*			**46.8**	50.00		93.5	80	120	10/14/2022
Surr: Dibromofluoromethane	*			**54.3**	50.00		108.5	80	120	10/14/2022
Surr: Toluene-d8	*			**46.5**	50.00		93.1	80	120	10/14/2022

Batch 198791 **SampType:** MSD Units µg/L RPD Limit: 20

SampID: 22100870-021DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene		0.5		**51.6**	50.00	0	103.2	48.83	5.52	10/14/2022
Ethylbenzene		2.0		**46.7**	50.00	0	93.5	44.23	5.52	10/14/2022
Toluene		2.0		**47.3**	50.00	0	94.6	44.64	5.81	10/14/2022
Xylenes, Total		4.0		**95.4**	100.0	0	95.4	90.16	5.63	10/14/2022
Surr: 1,2-Dichloroethane-d4	*			**51.3**	50.00		102.6			10/14/2022
Surr: 4-Bromofluorobenzene	*			**46.4**	50.00		92.9			10/14/2022
Surr: Dibromofluoromethane	*			**54.1**	50.00		108.2			10/14/2022
Surr: Toluene-d8	*			**46.7**	50.00		93.3			10/14/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198825 **SampType:** MBLK Units **µg/L**

SampID: MBLK-AE221015A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**ND**						10/15/2022
Ethylbenzene	*	2.0		**ND**						10/15/2022
Toluene	*	2.0		**ND**						10/15/2022
Xylenes, Total	*	4.0		**ND**						10/15/2022
Surr: 1,2-Dichloroethane-d4	*			**51.2**	50.00		102.4	80	120	10/15/2022
Surr: 4-Bromofluorobenzene	*			**46.9**	50.00		93.8	80	120	10/15/2022
Surr: Dibromofluoromethane	*			**55.0**	50.00		110.1	80	120	10/15/2022
Surr: Toluene-d8	*			**45.6**	50.00		91.1	80	120	10/15/2022

Batch 198825 **SampType:** LCS Units **µg/L**

SampID: LCS-AE221015A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**53.9**	50.00	0	107.8	78.5	119	10/15/2022
Ethylbenzene	*	2.0		**47.8**	50.00	0	95.6	78.2	114	10/15/2022
Toluene	*	2.0		**47.0**	50.00	0	94.0	78.6	112	10/15/2022
Xylenes, Total	*	4.0		**143**	150.0	0	95.5	78.3	114	10/15/2022
Surr: 1,2-Dichloroethane-d4	*			**50.1**	50.00		100.2	80	120	10/15/2022
Surr: 4-Bromofluorobenzene	*			**46.6**	50.00		93.2	80	120	10/15/2022
Surr: Dibromofluoromethane	*			**54.5**	50.00		109.0	80	120	10/15/2022
Surr: Toluene-d8	*			**45.7**	50.00		91.4	80	120	10/15/2022

Batch 198825 **SampType:** LCSD Units **µg/L** RPD Limit: **15.9**

SampID: LCSD-AE221015A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	*	0.5		**57.4**	50.00	0	114.7	53.89	6.26	10/15/2022
Ethylbenzene	*	2.0		**49.2**	50.00	0	98.5	47.80	2.95	10/15/2022
Toluene	*	2.0		**48.8**	50.00	0	97.5	47.01	3.63	10/15/2022
Xylenes, Total	*	4.0		**150**	150.0	0	99.8	143.3	4.34	10/15/2022
Surr: 1,2-Dichloroethane-d4	*			**50.9**	50.00		101.9			10/15/2022
Surr: 4-Bromofluorobenzene	*			**46.4**	50.00		92.7			10/15/2022
Surr: Dibromofluoromethane	*			**55.4**	50.00		110.8			10/15/2022
Surr: Toluene-d8	*			**45.9**	50.00		91.7			10/15/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198833 **SampType:** MBLK Units **µg/L**

SampID: MBLK-AE221015A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**ND**						10/15/2022
Ethylbenzene	*	2.0		**ND**						10/15/2022
Toluene	*	2.0		**ND**						10/15/2022
Xylenes, Total	*	4.0		**ND**						10/15/2022
Surr: 1,2-Dichloroethane-d4	*			**47.2**	50.00		94.5	80	120	10/15/2022
Surr: 4-Bromofluorobenzene	*			**47.7**	50.00		95.4	80	120	10/15/2022
Surr: Dibromofluoromethane	*			**52.9**	50.00		105.7	80	120	10/15/2022
Surr: Toluene-d8	*			**45.6**	50.00		91.3	80	120	10/15/2022

Batch 198833 **SampType:** LCS Units **µg/L**

SampID: LCS-AE221015A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	*	0.5		**59.1**	50.00	0	118.2	78.5	119	10/15/2022
Ethylbenzene	*	2.0		**49.1**	50.00	0	98.2	78.2	114	10/15/2022
Toluene	*	2.0		**48.6**	50.00	0	97.3	78.6	112	10/15/2022
Xylenes, Total	*	4.0		**146**	150.0	0	97.5	78.3	114	10/15/2022
Surr: 1,2-Dichloroethane-d4	*			**47.5**	50.00		95.0	80	120	10/15/2022
Surr: 4-Bromofluorobenzene	*			**47.8**	50.00		95.7	80	120	10/15/2022
Surr: Dibromofluoromethane	*			**53.8**	50.00		107.6	80	120	10/15/2022
Surr: Toluene-d8	*			**45.1**	50.00		90.2	80	120	10/15/2022

Batch 198833 **SampType:** LCSD Units **µg/L** RPD Limit: **15.9**

SampID: LCSD-AE221015A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	*	0.5		**58.6**	50.00	0	117.3	59.11	0.82	10/15/2022
Ethylbenzene	*	2.0		**48.2**	50.00	0	96.5	49.09	1.75	10/15/2022
Toluene	*	2.0		**48.7**	50.00	0	97.3	48.64	0.04	10/15/2022
Xylenes, Total	*	4.0		**145**	150.0	0	96.7	146.3	0.91	10/15/2022
Surr: 1,2-Dichloroethane-d4	*			**47.2**	50.00		94.4			10/15/2022
Surr: 4-Bromofluorobenzene	*			**47.1**	50.00		94.3			10/15/2022
Surr: Dibromofluoromethane	*			**53.5**	50.00		107.0			10/15/2022
Surr: Toluene-d8	*			**45.3**	50.00		90.5			10/15/2022

Client: ERM **Work Order:** 22100870

Client Project: Champaign GW **Report Date:** 25-Oct-22

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

Batch 198833 **SampType:** MS Units **µg/L**

SampID: 22100870-022DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene		0.5		**53.5**	50.00	0	107.1	72	120	10/16/2022
Ethylbenzene		2.0		**45.0**	50.00	0	90.1	74.8	115	10/16/2022
Toluene		2.0		**45.9**	50.00	0	91.8	70.6	109	10/16/2022
Xylenes, Total		4.0		**90.3**	100.0	0	90.3	72.1	113	10/16/2022
Surr: 1,2-Dichloroethane-d4	*			**48.6**	50.00		97.2	80	120	10/16/2022
Surr: 4-Bromofluorobenzene	*			**47.3**	50.00		94.6	80	120	10/16/2022
Surr: Dibromofluoromethane	*			**53.7**	50.00		107.4	80	120	10/16/2022
Surr: Toluene-d8	*			**45.5**	50.00		90.9	80	120	10/16/2022

Batch 198833 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 22100870-022DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene		0.5		**56.1**	50.00	0	112.2	53.53	4.71	10/16/2022
Ethylbenzene		2.0		**47.3**	50.00	0	94.7	45.03	5.00	10/16/2022
Toluene		2.0		**48.0**	50.00	0	96.0	45.89	4.45	10/16/2022
Xylenes, Total		4.0		**94.2**	100.0	0	94.2	90.27	4.29	10/16/2022
Surr: 1,2-Dichloroethane-d4	*			**48.4**	50.00		96.7			10/16/2022
Surr: 4-Bromofluorobenzene	*			**47.0**	50.00		94.0			10/16/2022
Surr: Dibromofluoromethane	*			**53.6**	50.00		107.2			10/16/2022
Surr: Toluene-d8	*			**46.0**	50.00		91.9			10/16/2022

Receiving Check List

http://www.teklabinc.com/

Client: ERM
Client Project: Champaign GW

Work Order: 22100870
Report Date: 25-Oct-22

Carrier: Employee

Completed by: Timothy W. Mathis
On: 13-Oct-22

Received By: ANC

Reviewed by: Elizabeth A. Hurley
On: 13-Oct-22

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☑	No ☐	No VOA vials ☐	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

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

Additional NaOH (81662) was needed in all samples for cyanide analysis upon arrival at the laboratory. pH strip #83484/79929. - ANC/TMathis - 10/13/2022 4:10:12 PM

Trip Blank collection date and time will be reported as the received date and time (end of trip). - ehurley - 10/13/2022 5:10:03 PM

CHAIN OF CUSTODY

pg. 1 of 4 Work order # 22100870

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

Client:	ERM		
Address:	1968 Craig Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Jarred Schmidt	**Phone:**	(314) 733-4490
E-Mail:	Jarred.Schmidt@erm.com	**Fax:**	

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE ~~8.2°C~~ 2.5°C LTG# 3

Preserved in: [X] LAB [ ] FIELD **FOR LAB USE ONLY**

Lab Notes: PH 83484, added NaOH(8166Z) to all cyanide samples ANC 10/13/22

* MS/MSD PH 79929

Client Comments Reporting Limits are to confirm with IEPA TACO Limits Pb RL: 0.0075 mg/L

OK HEADSPACE TM

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

Are these samples known to be hazardous? [ ] Yes [X] No

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

Project Name/Number	Sample Collector's Name
Champaign GW	Barley/Kidd

Results Requested

[X] 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: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
22100870-001	UMW-102-WG-20221010	10/10/22 at 1350	1	1	1	2		X		X	X	X	X
002	UMW-105-WG-20221011	10/12/22 at 0940	1	1	1	2		X		X	X	X	X
003	UMW-106R-WG-20221011	10/11/22 at 1510	1	1	1	2		X		X	X	X	X
004	UMW-109-WG-20221011	10/11/22 at 1105	1	1	1	2		X		X	X	X	X
005	UMW-111A-WG-20221011	10/11/22 at 1100	1	1	1	2		X		X	X	X	X
006	UMW-116-WG-20221011	10/11/22 at 1230	1	1	1	2		X		X	X	X	X
007	UMW-118-WG-20221011	10/11/22 at 1215	1	1	1	2		X		X	X	X	X
008	UMW-119-WG-20221010	10/11/22 at 1510	1	1	1	2		X		X	X	X	X
009	UMW-120-WG-20221011	10/11/22 at 0900	1	1	1	2		X		X	X	X	X
010	UMW-121-WG-20221012	10/12/22 at 1010	1	1	1	2		X		X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Barley Kidd (ERM)	10/13/22 1245	Allison Cole	10/13/22 12:45

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: 75537

ANC/Sent 10/13/22

CHAIN OF CUSTODY

pg. 2 of 4 Work order # 22100870

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

Client:	ERM		
Address:	1968 Craig Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Jarred Schmidt	**Phone:**	(314) 733-4490
E-Mail:	Jarred.Schmidt@erm.com	**Fax:**	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 8.2 °C LTG# 3

Preserved in: ☒ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments Reporting Limits are to confirm with IEPA Taco Limits Pb RL: 0.0075 mg/L

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	Barley Kidd

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge)

☐ Dther ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	NaOH	HCl					MATRIX: Aqueous	Groundwater	Trip Blank				INDICATE ANALYSIS REQUESTED: BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A											
22100870-011	UMW-122-WG-20221012	10/12/22 at 0800	1	1	1	2						X					X	X	X	X											
012	UMW-123-WG-20221011	10/11/22 at 1615	1	1	1	2						X					X	X	X	X											
013	UMW-124-WG-20221012	10/12/22 at 1530	1	1	1	2						X					X	X	X	X											
014	UMW-125-WG-20221012	10/12/22 at 1145	1	1	1	2						X					X	X	X	X											
015	UMW-126-WG-20221012	10/12/22 at 1350	1	1	1	2						X					X	X	X	X											
016	UMW-127-WG-20221012	10/12/22 at 1100	1	1	1	2						X					X	X	X	X											
017	UMW-300-WG-20221010	10/10/22 at 1620	1	1	1	2						X					X	X	X	X											
018	UMW-301R-WG-20221012	10/12/22 at 1220	1	1	1	2						X					X	X	X	X											
019	UMW-302-WG-20221012	10/12/22 at 1500	1	1	1	2						X					X	X	X	X											
020	UMW-304R-WG-20221012	10/12/22 at 1310	1	1	1	2						X					X	X	X	X											

Relinquished By	Date/Time	Received By	Date/Time
Brandt Todd (ERM)	10/13/22 1245	Allison Coler	10/13/22 12:45

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: 75537

CHAIN OF CUSTODY

pg. 3 of 4 Work order # 22100870

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

Client:	ERM
Address:	1968 Craig Road
City / State / Zip	St. Louis, MO 63146
Contact:	Jarred Schmidt **Phone:** (314) 733-4490
E-Mail:	Jarred.Schmidt@erm.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 8.2 °C LTG# 3

Preserved in: LAB FIELD

FOR LAB USE ONLY

Lab Notes:

Client Comments Reporting Limits are to conf. with IEPA TACO Limits PbRL: 0.0075 mg/L

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	Bowley/Mudd

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: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
22100870-0021	UMW-305-WG-2022101 *	10/11/22 at 1620	1	1	1	2		X		X	X	X	X
022	UMW-306-WG-2022101 *	10/11/22 at 1505	1	1	1	2		X		X	X	X	X
023	UMW-307-WG-2022101	10/11/22 at 1335	1	1	1	2		X		X	X	X	X
024	UMW-308-WG-2022101	10/12/22 at 1415	1	1	1	2		X		X	X	X	X
025	DUP 001-WG-2022101 2	10/12/22	1	1	1	2		X		X	X	X	X
026	DUP 002-WG-2022101 2	10/12/22	1	1	1	2		X		X	X	X	X
027	DUP 003-WG-2022101 2	10/12/22	1	1	1	2		X		X	X	X	X
028	EB-01-WQ-2022101 0	10/10/22 at 1230	1	1	1	2	X			X	X	X	X
~~029~~	~~TB-01-WQ-2022101 0~~	~~10/10/22 at 1245~~				2			X	X			
029 030	EB-02-WQ-2022101 2	10/12/22 at 1015	1	1	1	2	X			X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Bennett Judd (ERM)	10/13/22 1245	Allison Cole	10/13/22 12:45

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: 75537

CHAIN OF CUSTODY

pg. 4 of 4 Work order # 22100870

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

Client:	ERM
Address:	1968 Craig Road
City / State / Zip	St. Louis, MO 63146
Contact:	Jarred Schmidt
Phone:	(314) 733-4490
E-Mail:	Jarred.Schmidt@erm.com
Fax:	

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 8.2 °C LTG# 3

Preserved in: [ ] LAB [ ] FIELD **FOR LAB USE ONLY**

Lab Notes:

Client Comments Reporting Limits are to Confirm with IEPA Taco Limits Pb RL: 0.0075mg/L

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

Are these samples known to be hazardous? [ ] Yes [X] No

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

Project Name/Number	Sample Collector's Name
Champaign GW	Burney / Kidd

Results Requested

[X] 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: Aqueous	Groundwater	Trip Blank	INDICATE ANALYSIS REQUESTED: BTEX 8260	PAH 8270 SIM	Total 8 RCRA Metals	Total Cyanide 9012A
	~~TB-02-WQ-2022101~~	~~10/12/22 1200~~				2			X	X			
22100870	~~TB-03-WQ-2022101~~					2			X	X			
-030	TB-01-WQ-2022101	10/10/22 1120				2			X	X			

Relinquished By	Date/Time	Received By	Date/Time
Bennett Kidd (ERM)	10/13/22 1245	Alissa Coller	10/13/22 12:45

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: 75537

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	16 November 2022
Reference	0638683
Subject	Data Review of Ameren Champaign Groundwater Samples Fourth Quarter 2022: Teklab, Inc. Data Package 22100870.

The data quality was assessed and any necessary qualifiers were applied following the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review*, November 2020 and *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review*, November 2020. Field duplicates were assessed following *Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures*, September 2020.

ERM reviewed data for compliance with the following quality assurance/quality control (QA/QC) and method-prescribed criteria for EPA 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.

Additionally, ERM performed an EPA Stage 3 data review for 20 percent of the samples (6 samples: UMW-118-WG-20221011, UMW-124-WG-20221012, UMW-125-WG-20221012, UMW-302-WG-20221012, UMW-305-WG-20221011, and DUP 001-WG-20221012) was performed. The Stage 3 review included all 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.
- **Instrument Tuning:** Instrument tuning and performance check frequency and results were reviewed.
- **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 standard 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

Although a collection date and time was listed on the chain-of-custody for the trip blank sample, Teklab's policy is to log the trip blank in with the date and time of sample receipt. The analysis of the trip blank sample still would be in hold if the time listed on the chain-of-custody had been used and qualifications were not necessary.

PRESERVATION EVALUATION

The sample shipment was received at the laboratory within the method-prescribed temperature preservation requirements of less than 6°C. The samples had the correct chemical preservation, except for all samples for cyanide analysis. The laboratory added additional sodium hydroxide to the affected cyanide samples. Samples with detected cyanide results were qualified as estimates (J). Samples with non-detected cyanide results were compared to historical results where available. For all primary project samples, all non-detected results agreed and the cyanide results were qualified as estimates (UJ). No historical results were available for equipment blank samples EB-01-WQ-20221010 and EB-02-WQ-20221012 and the non-detected results were rejected (R). The samples received with inadequate preservation are presented in Table 1.

HOLDING TIME EVALUATION

The samples were prepared and analyzed within the method-prescribed time period from the date of collection with two exceptions. Sample UMW-102-WG-20221010 and equipment blank sample EB-02-WQ-20221012 were prepared for semivolatile organic compound (SVOC) analysis one to five days past the seven day extraction holding time. Teklab qualified these results with (H) flags. SVOCs were non-detected in both samples and the current results were compared to historical results where available. For sample UMW-102-WG-20221010, the non-detected SVOC results agreed and were qualified as estimates (UJ). No historical results were available for equipment blank sample EB-02-WQ-20221012 and the non-detected results were rejected (R). The H flags have been removed. The qualified results are presented in Table 2.

BLANK EVALUATION

The method, equipment, and trip blank sample results were non-detected for each of the target analytes. The blank results indicate that no contaminants were introduced to the samples during sample collection activities, during shipment, handling, and storage, or during processing or analysis in the laboratory.

The cyanide results for equipment blank samples EB-01-WQ-20221010 and EB-02-WQ-20221012 and the SVOC results for equipment blank sample EB-02-WQ-20221012 were rejected for either preservation or holding time exceedance; therefore, the rejected results cannot be used to evaluate whether contaminants were introduced to the samples during sample collection activities.

CALIBRATION EVALUATION

Two types of calibration data were reviewed. These were initial calibration (ICAL) and initial/ continuing calibration verification (ICV/CCV). 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 ICV/CCV results were within acceptable limits for the reported sample results with the exceptions noted in Table 3. Chrysene, benzo(k)fluoranthene, benzo(b)fluoranthene, and arsenic had percent deviations outside the CCV control limits. The associated chrysene, benzo(k)fluoranthene, and benzo(b)fluoranthene results were qualified as estimates (UJ for non-detects and J for detects). No qualification was necessary for associated arsenic results as the laboratory indicated a high bias and the results were non-detect.

BLANK SPIKE EVALUATION

The laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and relative percent differences (RPDs) were within the laboratory's limits of acceptance, with the exception noted in Table 4. No data were qualified based upon the low LCS recovery alone, as the LCSD recoveries were within the control limits; however, detected results in the associated samples were qualified as estimates (J) due to the high LCS/LCSD RPDs.

MATRIX SPIKE EVALUATION

The laboratory prepared several project samples for MS/MSD analysis. The recoveries and RPDs were within the laboratory's limits of acceptance, with the exceptions noted in Table 4. All SVOC analytes had high RPDs in MS/MSD parent sample UMW-306-WG-20221011. Teklab qualified these results in the parent sample with an (R) flag. However, no qualification was necessary as the analytes were non-detected in the parent sample. Additionally, the MS/MSD recoveries in MS/MSD parent sample UMW-305-WG-20221011 were below the control limits for naphthalene. Teklab

qualified this result in the parent sample with an (S) flag. ERM qualified the result as an estimate with a low bias (J-) due to the low recoveries. The S and R flags have been removed.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within acceptable limits, with the exceptions noted in Table 5. Method 8270C surrogates 2-fluorobiphenyl and/or p-terphenyl-d14 were recovered outside the control limits in three samples. No qualification was necessary as either high recoveries were associated with non-detected results or dilution factors were greater than 10.

INTERNAL STANDARD EVALUATION

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

FIELD DUPLICATE EVALUATION

Three samples were collected and submitted in duplicate. ERM calculated the absolute differences or RPDs between detected results in Table 6. An RPD control limit of 30 was used when both the sample and the field duplicate results were greater than or equal to five times the reporting limit (RL). An absolute difference control limit of two times the RL was used when at least one of the results was less than five times the RL. Professional judgement was used if the RLs were not comparable. In these instances, no calculations were performed. All analytes in the parent sample/field duplicate pairs met the control limits.

RECALCULATION

All result recalculations agreed with reported results.

OVERALL ASSESSMENT

The cyanide results for equipment blank samples EB-01-WQ-20221010 and EB-02-WQ-20221012 and the SVOC results for equipment blank sample EB-002-WQ-20221012 were determined to be unusable due to either improper preservation or holding time exceedance and disagreement with historical results. With exception of the rejected results, all of the data, including qualified data, can be used for decision-making purposes; however, the limitations indicated by the applied qualifiers should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

Table 1
Samples with Exceeded Preservation Requirements
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Preservation Condition	Limits	Comment	ERM Qualifier
22100870	UMW-102-WG-20221010	9012A	pH < 12	pH > 12	Lab added sodium hydroxide upon receipt and samples were successfully preserved	UJ
	UMW-105-WG-20221012					J
	UMW-106R-WG-20221011					J
	UMW-109-WG-20221011					J
	UMW-111A-WG-20221011					UJ
	UMW-116-WG-20221011					UJ
	UMW-118-WG-20221011					J
	UMW-119-WG-20221010					J
	UMW-120-WG-20221011					J
	UMW-121-WG-20221012					J
	UMW-122-WG-20221012					J
	UMW-123-WG-20221011					J
	UMW-124-WG-20221012					J
	UMW-125-WG-20221012					J
	UMW-126-WG-20221012					UJ
	UMW-127-WG-20221012					UJ
	UMW-300-WG-20221010					UJ
	UMW-301R-WG-20221012					UJ
	UMW-302-WG-20221012					J
	UMW-304R-WG-20221012					J
	UMW-305-WG-20221011					J
	UMW-306-WG-20221011					J
	UMW-307-WG-20221011					J

Table 1
Samples with Exceeded Preservation Requirements
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Preservation Condition	Limits	Comment	ERM Qualifier
22100870	UMW-308-WG-20221012	9012A	pH < 12	pH > 12	Lab added sodium hydroxide upon receipt and samples were successfully preserved	J
	DUP 001-WG-20221012					J
	DUP 002-WG-20221012					UJ
	DUP 003-WG-20221012					J
	EB-01-WQ-20221010					R
	EB-02-WQ-20221012					R

Lab package reviewed: 22100870

Notes:

J = Estimated detected result

R = Result is rejected

UJ = Nondetected, estimated report limit

Table 2
Samples with Exceeded Holding Times
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Extraction Holding Time	Time Exceeded	Analysis Holding Time	Time Exceeded	Affected Analyte	ERM Qualifier
22100870	UMW-102-WG-20221010	8270C	7 days	1 day	40 days	--	All	UJ
	EB-02-WQ-20221012			5 days			All	R

Lab package reviewed: 22100870

Notes:

R = Result is rejected

UJ = Nondetected, estimated report limit

Table 3
Calibration Verification Recoveries Outside of Acceptable Limits
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	CCV Sample ID	Analyte	CCV Deviation (%)	CCV Limits (%)	Associated Sample	Reported Concentration	Units	ERM Qualifier
22100870	CCV BNA221014H Analyzed 10/19/22 8:34 Instrument Z	Chrysene	-26	± 20	UMW-118-WG-20221011	ND	mg/L	UJ
					UMW-120-WG-20221011	ND	mg/L	UJ
					UMW-123-WG-20221011	ND	mg/L	UJ
					UMW-306-WG-20221011	ND	mg/L	UJ
					UMW-307-WG-20221011	ND	mg/L	UJ
		Benzo(k)fluoranthene	-21	± 20	UMW-118-WG-20221011	ND	mg/L	UJ
					UMW-120-WG-20221011	ND	mg/L	UJ
					UMW-123-WG-20221011	ND	mg/L	UJ
					UMW-306-WG-20221011	ND	mg/L	UJ
					UMW-307-WG-20221011	ND	mg/L	UJ
	CCV BNA221014H Analyzed 10/19/22 18:59 Instrument Z	Chrysene	-36	± 20	UMW-105-WG-20221012	ND	mg/L	UJ
					UMW-122-WG-20221012	ND	mg/L	UJ
					UMW-125-WG-20221012	ND	mg/L	UJ
					UMW-126-WG-20221012	ND	mg/L	UJ
		Benzo(k)fluoranthene	-24	± 20	UMW-105-WG-20221012	ND	mg/L	UJ
					UMW-122-WG-20221012	ND	mg/L	UJ
					UMW-125-WG-20221012	ND	mg/L	UJ
					UMW-126-WG-20221012	ND	mg/L	UJ
	CCV BNA221014H Analyzed 10/25/22 8:40 Instrument Z	Chrysene	-27	± 20	DUP 003-WG-20221012	ND	mg/L	UJ
		Benzo(b)fluoranthene	27	± 20	DUP 003-WG-20221012	ND	mg/L	UJ
	CCV AM221013A-2 Analyzed 10/13/22 21:30 Instrument AM	Benzene	22	± 20	UMW-105-WG-20221012	0.2	µg/L	J
					UMW-106R-WG-20221011	0.1	µg/L	J
					UMW-109-WG-20221011	ND	µg/L	UJ
					UMW-111A-WG-20221011	ND	µg/L	UJ
					UMW-116-WG-20221011	ND	µg/L	UJ

Table 3
Calibration Verification Recoveries Outside of Acceptable Limits
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	CCV Sample ID	Analyte	CCV Deviation (%)	CCV Limits (%)	Associated Sample	Reported Concentration	Units	ERM Qualifier
22100870	CCV AM221013A-2 Analyzed 10/13/22 21:30 Instrument AM	Benzene	22	± 20	UMW-118-WG-20221011	ND	µg/L	UJ
					UMW-119-WG-20221010	ND	µg/L	UJ
					UMW-120-WG-20221011	ND	µg/L	UJ
					UMW-121-WG-20221012	ND	µg/L	UJ
					UMW-122-WG-20221012	ND	µg/L	UJ
					UMW-123-WG-20221011	ND	µg/L	UJ
					UMW-124-WG-20221012	52.6	µg/L	J
					UMW-125-WG-20221012	10.9	µg/L	J
					UMW-126-WG-20221012	0.1	µg/L	J
					UMW-127-WG-20221012	1.8	µg/L	J
					UMW-300-WG-20221010	ND	µg/L	UJ
	Batch 198852 CCV	Arsenic	High	NR	None for qualification, samples ND	--	--	--

Lab package reviewed: 22100870

Notes:
CCV = Continuing calibration verification
J = Estimated detected result
mg/L = Milligrams per liter
ND = Not detected
NR = Not reported
UJ = Nondetected, estimated report limit
µg/L = Micrograms per liter

Table 4
Spike Recoveries Outside of Acceptable Limits
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Spike Sample ID	Associated Sample	Analyte	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
LCS/LCSD										
22100870	LCS-198941 LCSD-198941	UMW-125-WG-20221012	Acenaphthene	48.8/88.3	57.9-107	57.55	40	0.000074	mg/L	J
		UMW-127-WG-20221012						0.000188	mg/L	J
		UMW-301R-WG-20221012						0.00338	mg/L	J
		UMW-304R-WG-20221012						0.000193	mg/L	J
		DUP 001-WG-20221012						0.000434	mg/L	J
		UMW-301R-WG-20221012	Acenaphthylene	51.4/93.7	56.1-114	58.23	40	0.00309	mg/L	J
		UMW-304R-WG-20221012						0.000407	mg/L	J
		DUP 001-WG-20221012						0.000246	mg/L	J
		None for qualification, samples ND	Anthracene	50.8/86.1	59.4-111	51.50	40	--	--	--
			Benzo(a)anthracene	52.8/91.7	59.1-113	53.82	40	--	--	--
			Benzo(a)pyrene	47.8/86.9	59.6-124	57.99	40	--	--	--
			Benzo(b)fluoranthene	48.5/93.8	62.5-118	63.67	40	--	--	--
			Benzo(g,h,i)perylene	53.7/97.3	61.9-126	57.74	40	--	--	--
			Benzo(k)fluoranthene	57.6/101.7	61.3-118	55.38	40	--	--	--
			Chrysene	54.6/99.7	59.9-114	58.51	40	--	--	--
			Dibenzo(a,h)anthracene	56.8/104.8	69-133	59.46	40	--	--	--
			Fluoranthene	58.6/100.0	62.2-121	52.18	40	--	--	--
		UMW-301R-WG-20221012	Fluorene	50.8/90.6	59.6-114	56.24	40	0.00017	mg/L	J
		None for qualification, samples ND	Indeno(1,2,3-cd)pyrene	58.6/102.9	71.8-131	54.97	40	--	--	--
		UMW-125-WG-20221012	Naphthalene	48.2/86.1	54.6-102	56.37	40	0.00123	mg/L	J
		UMW-127-WG-20221012						0.00135	mg/L	J
		DUP 001-WG-20221012						0.0369	mg/L	J
		DUP 003-WG-20221012						2.44	mg/L	J
		None for qualification, samples ND	Phenanthrene	56.2/93.0	63.2-117	49.37	40	--	--	--
			Pyrene	57.4/97.0	46.7-126	51.37	40	--	--	--

Table 4
Spike Recoveries Outside of Acceptable Limits
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Spike Sample ID	Associated Sample	Analyte	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
MS/MSD										
22100870	UMW-306-WG-20221011 MS/MSD	UMW-306-WG-20221011	Acenaphthene	54.1/88.5	28.3-133	48.28	40	ND	mg/L	--
			Acenaphthylene	58.1/94.8	5-176	47.99	40	ND	mg/L	--
			Anthracene	56.3/92.2	34.6-131	48.29	40	ND	mg/L	--
			Benzo(a)anthracene	58.1/93.6	40.3-132	46.85	40	ND	mg/L	--
			Benzo(a)pyrene	56.6/91.7	40.8-132	47.39	40	ND	mg/L	--
			Benzo(b)fluoranthene	58.2/96.6	41.9-132	49.65	40	ND	mg/L	--
			Benzo(g,h,i)perylene	63.9/102.7	46-132	46.51	40	ND	mg/L	--
			Benzo(k)fluoranthene	68.8/105.0	49.4-126	41.71	40	ND	mg/L	--
			Chrysene	67.4/108.8	46.1-129	47.00	40	ND	mg/L	--
			Dibenzo(a,h)anthracene	68.8/112.3	42.1-146	48.11	40	ND	mg/L	--
			Fluoranthene	63.3/102.2	23.9-164	47.04	40	ND	mg/L	--
			Fluorene	58.8/94.2	24.3-148	46.24	40	ND	mg/L	--
			Indeno(1,2,3-cd)pyrene	69.1/110.2	26.6-157	45.78	40	ND	mg/L	--
			Naphthalene	53.7/86.0	24.2-132	46.31	40	ND	mg/L	--
			Phenanthrene	58.1/96.1	36.6-139	49.24	40	ND	mg/L	--
			Pyrene	62.1/102.2	14.6-169	48.76	40	ND	mg/L	--
	UMW-305-WG-20221011 MS/MSD	UMW-305-WG-20221011	Naphthalene	-150.7/-143.7	24.2-132	8.78	40	0.00454	mg/L	J-

Lab package reviewed: 22100870

Notes:
J = Estimated detected result
J- = Detected results are estimated with a low bias
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 5
Surrogate Recovery Results out of Acceptable Limits
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Sample ID	Method	Surrogate	Recovery (%)	Limit (%)	Affected Analyte	Dilution Factor	ERM Qualifier
22100870	UMW-120-WG-20221011	8270C	2-Fluorobiphenyl	151.7	21.4-142	None for qualification, results ND	1	--
			p-Terphenyl-d14	223.1	10-173			
	UMW-302-WG-20221012	8270C	2-Fluorobiphenyl	0	21.4-142	None for qualification, dilution factor > 10	250	--
	DUP 003-WG-20221012	8270C	2-Fluorobiphenyl	0	21.4-142	None for qualification, dilution factor > 10	50	--

Lab package reviewed: 22100870

Notes:
ND = Not detected

Table 6
Field Duplicate Results and Calculated Relative Percent Differences
Fourth Quarter 2022 Groundwater Monitoring
Ameren
Champaign, Illinois

Lab Package	Primary/Duplicate Sample ID	Analyte	Concentration		Report Limit		Absolute Difference	Difference Limit	Units	RPD	RPD Limit	ERM Qualifier
			Sample	Duplicate	Sample	Duplicate						
22100870	UMW-124-WG-20221012/ DUP 001-WG-20221012	Cyanide	0.007	0.007	0.005	0.005	0.000	0.010	mg/L	--	--	--
		Barium	0.0325	0.0327	0.0025	0.0025	--	--	mg/L	0.6	30	--
		Acenaphthene	0.000433	0.000434	0.000100	0.000100	0.000001	0.000200	mg/L	--	--	--
		Acenaphthylene	0.000257	0.000246	0.000100	0.000100	0.000011	0.000200	mg/L	--	--	--
		Naphthalene	0.0418	0.0369	0.0100	0.0100	0.00490	0.0200	mg/L	--	--	--
		Benzene	52.6	54.8	0.50	0.50	--	--	µg/L	4.1	30	--
		Ethylbenzene	8.0	7.4	2.0	2.0	0.6	4.0	µg/L	--	--	--
		Toluene	44.8	40.6	2.0	2.0	--	--	µg/L	9.8	30	--
		Xylene, Total	23.8	21.8	4.0	4.0	--	--	µg/L	8.8	30	--
	UMW-126-WG-20221012/ DUP 002-WG-20221012	Barium	0.0265	0.0263	0.0025	0.0025	--	--	mg/L	0.8	30	--
		Benzene	0.1	0.2	0.5	0.5	0.1	1.0	µg/L	--	--	--
	UMW-302-WG-20221012/ DUP 003-WG-20221012	Cyanide	0.106	0.103	0.025	0.025	0.003	0.050	mg/L	--	--	--
		Barium	0.0554	0.0546	0.0025	0.0025	--	--	mg/L	1.5	30	--
		Acenaphthene	0.000589	ND	0.000100	0.00500	NA	NA	mg/L	NA	NA	--
		Acenaphthylene	0.000365	ND	0.000100	0.00500	NA	NA	mg/L	NA	NA	--
		Naphthalene	2.05	2.44	0.400	0.400	--	--	mg/L	17	30	--
		Benzene	178	207	5.0	25.0	--	--	µg/L	15	30	--
		Ethylbenzene	568	579	20.0	100	--	--	µg/L	1.9	30	--
		Toluene	5.0	4.2	20	2.0	0.8	4.0	µg/L	--	--	--
		Xylene, Total	168	206	40.0	4.0	NA	NA	µg/L	NA	NA	--

Lab package reviewed: 22100870

Notes:
mg/L = Milligrams per liter
NA = Not applicable, reporting limits aren't comparable for difference or RPD calculation
ND = 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