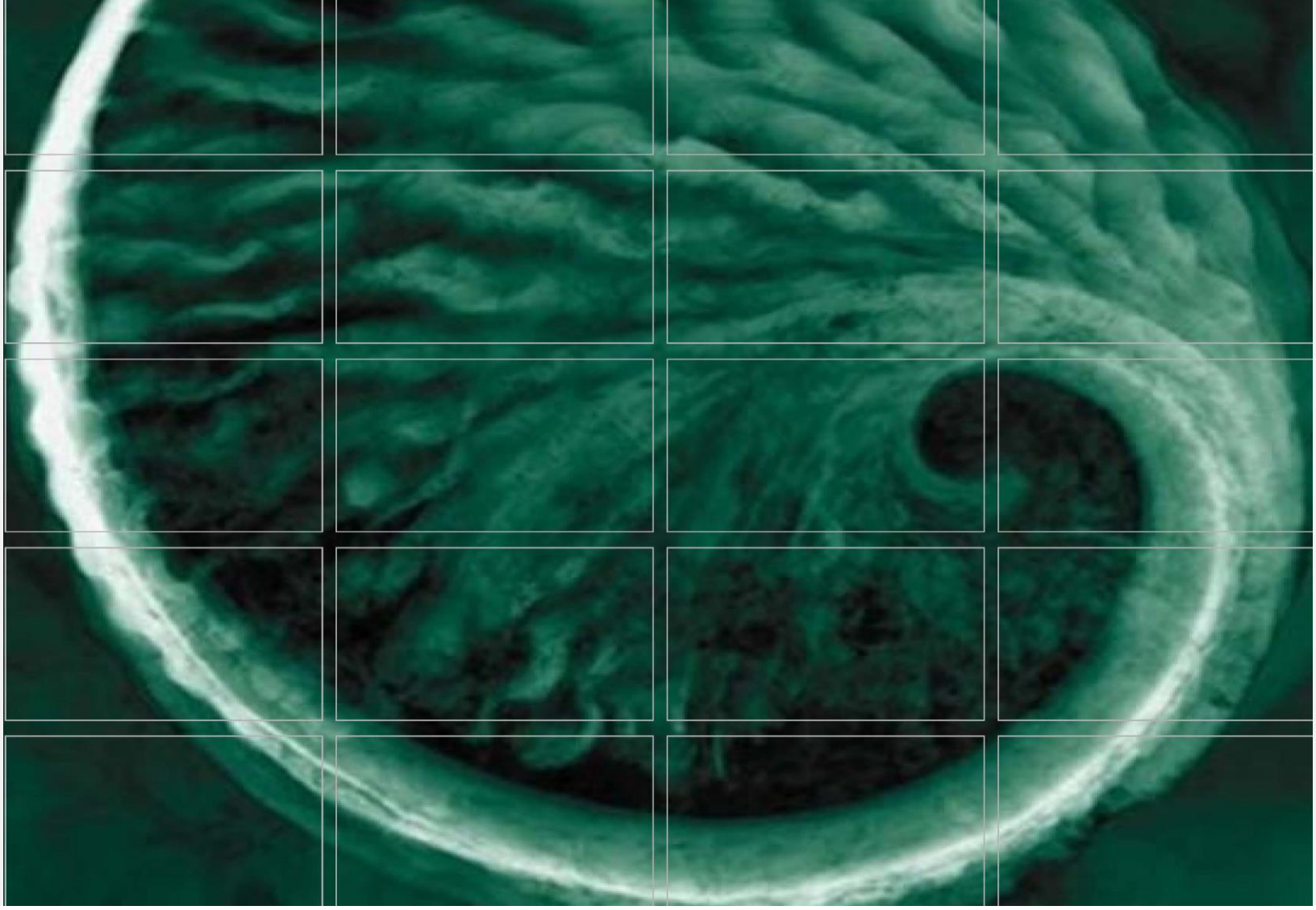

Ameren Champaign MGP - Fifth Street

Weekly Air Monitoring Report

16 May 2022

Project No.: 0529307

The business of sustainability

ERM

CONTENTS

List of Tables

List of Figures

1. INTRODUCTION

Environmental Resources Management, Inc. (ERM) installed five stationary air monitors (SAMs) at four locations around the perimeter of the remediation site to monitor dust levels (PM_{10}), volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) produced by the excavation. SAMs 1 and 3 were collocated in the southeast corner to provide duplicate measurements for quality control purposes. A meteorological monitoring station was installed to collect wind speed and direction, temperature, and barometric pressure to document atmospheric conditions and to support interpretation of the air quality data. A map showing the monitoring network layout is presented in Figure 1.

Figure 1: Ameren Champaign 5th Street - Monitoring Site Locations

ERM used health effects data to establish maximum acceptable exposure levels for each of the constituents of concern (COC). These were used to set action levels for the monitoring compounds.

Site remediation was completed on April 28, 2022, and post-remediation monitoring began the following day. The real-time ambient air quality and meteorological operations concluded on May 2, 2022. Real-time VOC measurements have been reduced to twice daily during the post-remediation phase and are reported from May 4 and May 10, 2022. The laboratory results that are presented were collected between April 25 and April 27, 2022. All results are compared to the established maximum acceptable exposure levels.

2. SUMMARY

The reporting period covers the final remediation operational phase. During this period, air quality concentrations remained under the established action levels. Tables 1 and 2 present a summary of the air quality monitoring results for the reporting period.

Table 1: Reporting Period Acceptable Exposure Level Summary

CONSTITUENTS OF CONCERN (SAMPLING PERIOD, UNITS)	MONITORING PERIOD	NUMBER OF ACTION LEVEL OR ACCEPTABLE EXPOSURE LEVEL EXCEEDANCES	MAXIMUM MEASURED CONCENTRATION	ACTION LEVEL
VOC (1-minute average, ppm)	5/4/2022 – 5/10/2022	0	0.0	0.5
Benzene, Real-time GC (1-minute average µg/m^3)	5/4/2022 – 5/10/2022	0	NM	156.7

Data presented have yet to be fully quality-assured; final values may vary of these preliminary results once all quality control measures have been applied.
NM = No measurements (benzene-specific measurements only made with portable gas chromatograph, in response to VOC exceedance)

Table 2: Reporting Period Action Level Summary

CONSTITUENTS OF CONCERN, METHOD (SAMPLING PERIOD, UNITS)	MONITORING PERIOD	NUMBER OF ACTION LEVEL OR ACCEPTABLE EXPOSURE LEVEL EXCEEDANCES	MAXIMUM MEASURED CONCENTRATION	ACCEPTABLE EXPOSURE LEVEL
Styrene, Method 325B (14-day sample period, µg/m^3)	No lab data was received during this period.			205,000
Benzene, Method 325B (14-day sample period, µg/m^3)	No lab data was received during this period.			16.5
Toluene, Method 325B (14-day sample period, µg/m^3)	No lab data was received during this period.			23,400
Xylenes (total), Method 325B (14-day sample period, µg/m^3)	No lab data was received during this period.			41,000
Ethylbenzene, Method 325B (14-day sample period, µg/m^3)	No lab data was received during this period.			59,400
2-methylnapthalene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	820
Acenaphthene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	12,300
Acenaphthylene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	615
Anthracene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	615
Benzo(a)anthracene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	1.54
Benzo(a)pyrene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	0.154

CONSTITUENTS OF CONCERN, METHOD (SAMPLING PERIOD, UNITS)	MONITORING PERIOD	NUMBER OF ACTION LEVEL OR ACCEPTABLE EXPOSURE LEVEL EXCEEDANCES	MAXIMUM MEASURED CONCENTRATION	ACCEPTABLE EXPOSURE LEVEL
Benzo(k)fluoranthene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	15.4
Benzo(b)fluoranthene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	15.4
Chrysene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	154
Dibenzo(a,h)anthracene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	0.154
Fluoranthene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	8,200
Fluorene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	8,200
Indeno(1,2,3-cd)pyrene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	1.54
Napthalene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	176
Phenanthrene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	6,150
Pyrene, Method TO-13A (3-day sample period, µg/m^3)	4/25/2022 – 4/27/2022	0	ND	6,150

Data presented have yet to be fully quality-assured; final values may vary of these preliminary results once all quality control measures have been applied.
NM = No measurements (benzene-specific measurements only made with portable gas chromatograph, in response to VOC exceedance)
ND = Not detected (concentrations below laboratory minimum detection limits)

The preliminary (not fully quality-assured) data record for the reporting period is contained in Appendices A and B.

APPENDIX A COMPLETE PRELIMINARY DATA RECORD

Appendix A: Complete Preliminary Data Record

5/4/2022				
	Morning Reading		Afternoon Reading	
Site Name	Time (CST)	VOC Conc. (ppm)	Time (CST)	VOC Conc. (ppm)
SAM-1	1004	0.0	1304	0.0
SAM-2	1001	0.0	1301	0.0
SAM-3	1012	0.0	1312	0.0
SAM-4	1007	0.0	1307	0.0
IMPL-A	1000	0.0	1300	0.0
IMPL-B	1001	0.0	1301	0.0
IMPL-C	1002	0.0	1302	0.0
IMPL-D	1003	0.0	1303	0.0
IMPL-E	1005	0.0	1305	0.0
IMPL-F	1006	0.0	1306	0.0
IMPL-G	1008	0.0	1308	0.0
IMPL-H	1009	0.0	1309	0.0
IMPL-I	1010	0.0	1310	0.0
IMPL-J	1011	0.0	1311	0.0
IMPL-K	1013	0.0	1313	0.0
IMPL-L	1014	0.0	1314	0.0

Note: Measurements using a portable GC are only needed for concentrations over 0.5 ppm.
Measurements are made twice daily during post remediation

5/5/2022				
	Morning Reading		Afternoon Reading	
Site Name	Time (CST)	VOC Conc. (ppm)	Time (CST)	VOC Conc. (ppm)
SAM-1	804	0.0	1304	0.0
SAM-2	801	0.0	1301	0.0
SAM-3	812	0.0	1312	0.0
SAM-4	807	0.0	1307	0.0
IMPL-A	800	0.0	1300	0.0
IMPL-B	801	0.0	1301	0.0
IMPL-C	802	0.0	1302	0.0
IMPL-D	803	0.0	1303	0.0
IMPL-E	805	0.0	1305	0.0
IMPL-F	806	0.0	1306	0.0
IMPL-G	808	0.0	1308	0.0
IMPL-H	809	0.0	1309	0.0
IMPL-I	810	0.0	1310	0.0
IMPL-J	811	0.0	1311	0.0
IMPL-K	813	0.0	1313	0.0
IMPL-L	814	0.0	1314	0.0

Note: Measurements using a portable GC are only needed for concentrations over 0.5 ppm.
Measurements are made twice daily during post remediation

Data are raw values and have not undergone full QA/QC validation.

5/6/2022				
	Morning Reading		Afternoon Reading	
Site Name	Time (CST)	VOC Conc. (ppm)	Time (CST)	VOC Conc. (ppm)
SAM-1	804	0.0	1304	0.0
SAM-2	801	0.0	1301	0.0
SAM-3	812	0.0	1312	0.0
SAM-4	807	0.0	1307	0.0
IMPL-A	800	0.0	1300	0.0
IMPL-B	801	0.0	1301	0.0
IMPL-C	802	0.0	1302	0.0
IMPL-D	803	0.0	1303	0.0
IMPL-E	805	0.0	1305	0.0
IMPL-F	806	0.0	1306	0.0
IMPL-G	808	0.0	1308	0.0
IMPL-H	809	0.0	1309	0.0
IMPL-I	810	0.0	1310	0.0
IMPL-J	811	0.0	1311	0.0
IMPL-K	813	0.0	1313	0.0
IMPL-L	814	0.0	1314	0.0

Note: Measurements using a portable GC are only needed for concentrations over 0.5 ppm.
Measurements are made twice daily during post remediation

5/7/2022				
	Morning Reading		Afternoon Reading	
Site Name	Time (CST)	VOC Conc. (ppm)	Time (CST)	VOC Conc. (ppm)
SAM-1	1104	0.0	1504	0.0
SAM-2	1101	0.0	1501	0.0
SAM-3	1112	0.0	1512	0.0
SAM-4	1107	0.0	1507	0.0
IMPL-A	1100	0.0	1500	0.0
IMPL-B	1101	0.0	1501	0.0
IMPL-C	1102	0.0	1502	0.0
IMPL-D	1103	0.0	1503	0.0
IMPL-E	1105	0.0	1505	0.0
IMPL-F	1106	0.0	1506	0.0
IMPL-G	1108	0.0	1508	0.0
IMPL-H	1109	0.0	1509	0.0
IMPL-I	1110	0.0	1510	0.0
IMPL-J	1111	0.0	1511	0.0
IMPL-K	1113	0.0	1513	0.0
IMPL-L	1114	0.0	1514	0.0

Note: Measurements using a portable GC are only needed for concentrations over 0.5 ppm.
Measurements are made twice daily during post remediation

Appendix A: Complete Preliminary Data Record

5/8/2022				
	Morning Reading		Afternoon Reading	
Site Name	Time (CST)	VOC Conc. (ppm)	Time (CST)	VOC Conc. (ppm)
SAM-1	1104	0.0	1304	0.0
SAM-2	1101	0.0	1301	0.0
SAM-3	1112	0.0	1312	0.0
SAM-4	1107	0.0	1307	0.0
IMPL-A	1100	0.0	1300	0.0
IMPL-B	1101	0.0	1301	0.0
IMPL-C	1102	0.0	1302	0.0
IMPL-D	1103	0.0	1303	0.0
IMPL-E	1105	0.0	1305	0.0
IMPL-F	1106	0.0	1306	0.0
IMPL-G	1108	0.0	1308	0.0
IMPL-H	1109	0.0	1309	0.0
IMPL-I	1110	0.0	1310	0.0
IMPL-J	1111	0.0	1311	0.0
IMPL-K	1113	0.0	1313	0.0
IMPL-L	1114	0.0	1314	0.0

Note: Measurements using a portable GC are only needed for concentrations over 0.5 ppm.
Measurements are made twice daily during post remediation

5/9/2022				
	Morning Reading		Afternoon Reading	
Site Name	Time (CST)	VOC Conc. (ppm)	Time (CST)	VOC Conc. (ppm)
SAM-1	804	0.0	1304	0.0
SAM-2	801	0.0	1301	0.0
SAM-3	812	0.0	1312	0.0
SAM-4	807	0.0	1307	0.0
IMPL-A	800	0.0	1300	0.0
IMPL-B	801	0.0	1301	0.0
IMPL-C	802	0.0	1302	0.0
IMPL-D	803	0.0	1303	0.0
IMPL-E	805	0.0	1305	0.0
IMPL-F	806	0.0	1306	0.0
IMPL-G	808	0.0	1308	0.0
IMPL-H	809	0.0	1309	0.0
IMPL-I	810	0.0	1310	0.0
IMPL-J	811	0.0	1311	0.0
IMPL-K	813	0.0	1313	0.0
IMPL-L	814	0.0	1314	0.0

Note: Measurements using a portable GC are only needed for concentrations over 0.5 ppm.
Measurements are made twice daily during post remediation

Data are raw values and have not undergone full QA/QC validation.

Appendix A: Complete Preliminary Data Record

5/10/2022				
	Morning Reading		Afternoon Reading	
Site Name	Time (CST)	VOC Conc. (ppm)	Time (CST)	VOC Conc. (ppm)
SAM-1	804	0.0	1304	0.0
SAM-2	801	0.0	1301	0.0
SAM-3	812	0.0	1312	0.0
SAM-4	807	0.0	1307	0.0
IMPL-A	800	0.0	1300	0.0
IMPL-B	801	0.0	1301	0.0
IMPL-C	802	0.0	1302	0.0
IMPL-D	803	0.0	1303	0.0
IMPL-E	805	0.0	1305	0.0
IMPL-F	806	0.0	1306	0.0
IMPL-G	808	0.0	1308	0.0
IMPL-H	809	0.0	1309	0.0
IMPL-I	810	0.0	1310	0.0
IMPL-J	811	0.0	1311	0.0
IMPL-K	813	0.0	1313	0.0
IMPL-L	814	0.0	1314	0.0

Note: Measurements using a portable GC are only needed for concentrations over 0.5 ppm.
Measurements are made twice daily during post remediation

Data are raw values and have not undergone full QA/QC validation.

APPENDIX B COMPLETE PRELIMINARY LAB RESULT DATA

Appendix A: Complete Preliminary Lab Result Data

Method	Sample			Units	Results	Data Flags	Compound Name
	ID	Start Date/Time	End Date/Time				
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Naphthalene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	2-Methylnaphthalene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	2-Chloronaphthalene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Acenaphthylene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Acenaphthene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Fluorene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Phenanthrene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Anthracene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Fluoranthene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Pyrene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Chrysene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Benzo(a)anthracene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Benzo(b)fluoranthene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Benzo(k)fluoranthene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Benzo(a)pyrene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Indeno(1,2,3-c,d)pyrene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Dibenz(a,h)anthracene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	µg		ND	Benzo(g,h,i)perylene
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	%R	85		Fluorene-d10
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	%R	103		Pyrene-d10
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	%R	100		Benzo(a)pyrene-d12
TO-13A	20220425-27-SE-SAM1	04/25/2022 08:05	04/27/2022 08:12	%R	79		Fluoranthene-d10
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Naphthalene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	2-Methylnaphthalene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	2-Chloronaphthalene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Acenaphthylene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Acenaphthene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Fluorene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Phenanthrene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Anthracene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Fluoranthene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Pyrene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Chrysene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Benzo(a)anthracene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Benzo(b)fluoranthene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Benzo(k)fluoranthene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Benzo(a)pyrene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Indeno(1,2,3-c,d)pyrene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Dibenz(a,h)anthracene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	µg		ND	Benzo(g,h,i)perylene
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	%R	84		Fluorene-d10
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	%R	89		Pyrene-d10
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	%R	98		Benzo(a)pyrene-d12
TO-13A	20220425-27-NE-SAM2	04/25/2022 08:13	04/27/2022 08:22	%R	68		Fluoranthene-d10
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Naphthalene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	2-Methylnaphthalene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	2-Chloronaphthalene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Acenaphthylene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Acenaphthene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Fluorene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Phenanthrene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Anthracene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Fluoranthene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Pyrene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Chrysene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Benzo(a)anthracene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Benzo(b)fluoranthene

Appendix A: Complete Preliminary Lab Result Data

Method	Sample			Units	Results	Data Flags	Compound Name
	ID	Start Date/Time	End Date/Time				
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Benzo(k)fluoranthene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Benzo(a)pyrene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Indeno(1,2,3-c,d)pyrene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Dibenz(a,h)anthracene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	µg		ND	Benzo(g,h,i)perylene
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	%R	83		Fluorene-d10
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	%R	101		Pyrene-d10
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	%R	102		Benzo(a)pyrene-d12
TO-13A	20220425-27-SE-SAM3	04/25/2022 08:00	04/27/2022 08:04	%R	75		Fluoranthene-d10
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Naphthalene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	2-Methylnaphthalene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	2-Chloronaphthalene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Acenaphthylene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Acenaphthene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Fluorene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Phenanthrene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Anthracene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Fluoranthene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Pyrene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Chrysene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Benzo(a)anthracene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Benzo(b)fluoranthene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Benzo(k)fluoranthene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Benzo(a)pyrene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Indeno(1,2,3-c,d)pyrene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Dibenz(a,h)anthracene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	µg		ND	Benzo(g,h,i)perylene
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	%R	78		Fluorene-d10
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	%R	89		Pyrene-d10
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	%R	96		Benzo(a)pyrene-d12
TO-13A	20220425-27-NW-SAM4	04/25/2022 08:20	04/27/2022 08:27	%R	88		Fluoranthene-d10
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Naphthalene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	2-Methylnaphthalene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	2-Chloronaphthalene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Acenaphthylene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Acenaphthene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Fluorene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Phenanthrene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Anthracene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Fluoranthene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Pyrene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Chrysene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Benzo(a)anthracene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Benzo(b)fluoranthene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Benzo(k)fluoranthene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Benzo(a)pyrene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Indeno(1,2,3-c,d)pyrene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Dibenz(a,h)anthracene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	µg		ND	Benzo(g,h,i)perylene
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	%R	85		Fluorene-d10
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	%R	103		Pyrene-d10
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	%R	102		Benzo(a)pyrene-d12
TO-13A	20220425-27-SW-SAM5	04/25/2022 08:31	04/27/2022 08:38	%R	76		Fluoranthene-d10
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Naphthalene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	2-Methylnaphthalene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	2-Chloronaphthalene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Acenaphthylene

Appendix A: Complete Preliminary Lab Result Data

Method	Sample ID	Start Date/Time	End Date/Time	Units	Results	Data Flags	Compound Name
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Acenaphthene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Fluorene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Phenanthrene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Anthracene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Fluoranthene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Pyrene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Chrysene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Benzo(a)anthracene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Benzo(b)fluoranthene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Benzo(k)fluoranthene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Benzo(a)pyrene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Indeno(1,2,3-c,d)pyrene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Dibenz(a,h)anthracene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	µg		ND	Benzo(g,h,i)perylene
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	%R	86		Fluorene-d10
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	%R	101		Pyrene-d10
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	%R	111		Benzo(a)pyrene-d12
TO-13A	20220425-27-SAM6	04/25/2022 08:35	04/27/2022 08:40	%R	79		Fluoranthene-d10

ND - Non Detect

E - Exceeds instrument calibration range

Q - Exceeds quality control limits

S - Saturated peak

J - Estimated value

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed)

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition

N - The identification is based on presumptive evidence.

ERM has over 160 offices across the following countries and territories worldwide

Argentina
Australia
Belgium
Brazil
Canada
Chile
China
Colombia
France
Germany
Ghana
Guyana
Hong Kong
India
Indonesia
Ireland
Italy
Japan
Kazakhstan
Kenya
Malaysia
Mexico
Mozambique
Myanmar
The Netherlands
New Zealand
Norway
Panama
Peru
Poland
Portugal
Puerto Rico
Romania
Russia
Senegal
Singapore
South Africa
South Korea
Spain
Sweden
Switzerland
Taiwan
Tanzania
Thailand
UAE
UK
US
Vietnam

ERM Rolling Meadows
One Continental Towers
1701 Golf Road, Suite 1-700
Rolling Meadows, IL 60008

T: +1 847 258 8900
F: +1 847 713-4813

www.erm.com

The business of sustainability

ERM