



July 26, 2023

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**Subject: Contract No. 68HERH19D0018; Task Order No. 68HE0719F0190  
31<sup>st</sup> & Prospect Development Site  
2501, 2503, and 2505 East 30<sup>th</sup> Street; 3012 Prospect Avenue; and 3005, 3009, 3011, and  
3015 Wabash Avenue, Kansas City, Jackson County, Missouri  
Phase II Environmental Site Assessment, Quarter 6**

Dear Ms. Dunning:

Toeroek Associates, Inc. (Toeroek) and our teaming subcontractor, Tetra Tech, Inc. (Tetra Tech), (hereafter "Toeroek Team") are pleased to present the Phase II Environmental Site Assessment (ESA), Quarter 6 report regarding the 31<sup>st</sup> & Prospect Development Site (the Site) in Kansas City, Jackson County, Missouri.

This deliverable has been reviewed internally as part of Tetra Tech's quality assurance program, as well as Toeroek's quality assurance program, and is consistent with Toeroek's Quality Management Plan for the Resource Conservation and Recovery Act (RCRA) Enforcement and Permitting Assistance (REPA) contract. Documentation of this review is retained in the Toeroek Team's project files.

If you have any questions or comments, please contact Greg Hanna at 720-898-4102 or Kaitlyn Mitchell at 816-412-1742.

Sincerely,

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Enclosure

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**TARGETED BROWNFIELDS ASSESSMENT  
PHASE II ENVIRONMENTAL SITE ASSESSMENT, QUARTER 6**

**31<sup>st</sup> & PROSPECT DEVELOPMENT SITE  
2501, 2503, AND 2505 EAST 30<sup>th</sup> STREET; 3012 PROSPECT AVENUE;  
AND 3005, 3009, 3011, AND 3015 WABASH AVENUE  
KANSAS CITY, JACKSON COUNTY, MISSOURI**



**Prepared for**

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION 7**

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## CONTENTS

| <u>Section</u>  | <u>Page</u> |
|---|-------------|
| 1.0 INTRODUCTION .....                                      | 1           |
| 1.1 PURPOSE.....  | 2           |
| 1.2 SPECIAL TERMS AND CONDITIONS .....                      | 2           |
| 2.0 BACKGROUND AND SITE HISTORY .....                       | 3           |
| 2.1 SITE DESCRIPTION AND FEATURES .....                     | 3           |
| 2.2 PHYSICAL SETTING .....                                  | 3           |
| 2.2.1 Geologic Setting .....                                | 3           |
| 2.2.2 Hydrogeology .....                                    | 4           |
| 2.2.3 Hydrology.....  | 5           |
| 2.2.4 Meteorology .....                                     | 5           |
| 2.3 SITE HISTORY AND LAND USE .....                         | 5           |
| 2.4 ADJACENT PROPERTY USE.....                              | 5           |
| 2.5 SUMMARY OF PREVIOUS ASSESSMENTS .....                   | 5           |
| 3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES ..... | 8           |
| 3.1 SCOPE OF THE ASSESSMENT.....                            | 8           |
| 3.1.1 Sampling Plan.....                                    | 8           |
| 3.1.2 Chemical Testing Plan.....                            | 8           |
| 3.1.3 Deviations from the QAPP .....                        | 8           |
| 3.2 FIELD ACTIVITIES .....                                  | 9           |
| 3.2.1 Groundwater Sampling.....                             | 9           |
| 3.2.2 Quality Control Sampling.....                         | 9           |
| 4.0 EVALUATION AND PRESENTATION OF RESULTS.....             | 11          |
| 4.1 GROUNDWATER SAMPLES .....                               | 11          |
| 4.2 QUALITY CONTROL SAMPLES .....                           | 12          |
| 5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS..... | 14          |
| 6.0 REFERENCES .....  | 15          |

**TABLES\***

| <b><u>TABLE</u></b>  | <b><u>PAGE</u></b> |
|--|--------------------|
| TABLE 1 GROUNDWATER LEVEL AND SAMPLE SUMMARY, QUARTER 6 .....          | 9                  |
| TABLE 2 DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES, QUARTER 6 ..... | 12                 |

\* Historical tables appear in Appendix B.

**APPENDICES**

**Appendix**

APPENDIX A FIGURES

APPENDIX B HISTORICAL ANALYTICAL RESULTS

APPENDIX C LOGBOOK

APPENDIX D ANALYTICAL DATA PACKAGES AND DATA VALIDATION REPORTS

**FIGURES (in Appendix A)**

**Figure**

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SAMPLE LOCATION MAP

FIGURE 3 VOC EXCEEDANCES IN GROUNDWATER

## 1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Toeroek Associates, Inc. (Toeroek) and its teaming subcontractor, Tetra Tech, Inc., (hereafter “Toeroek Team”) with providing technical support to the EPA Region 7 Brownfields Program under Contract 68HERH19D0018, Task Order 68HE0719F0190. EPA Region 7 requested the Toeroek Team conduct a Phase II Environmental Site Assessment (ESA) as part of a Targeted Brownfields Assessment (TBA) of a portion of the 31<sup>st</sup> & Prospect Development Site (the Site). The Site includes eight parcels of land at 2501, 2503, and 2505 East 30<sup>th</sup> Street; 3012 Prospect Avenue; and 3005, 3009, 3011, and 3015 Wabash Avenue in Kansas City, Jackson County, Missouri ([Appendix A, Figure 1](#)).

The Toeroek Team performed this Phase II ESA based on results of previous investigations by CEG Assessments (CEG) (2016), Ramboll Environ (Ramboll) (2016), and SCS Engineers (SCS) (2018, 2019). The previous investigations occurred over a larger portion of the 31<sup>st</sup> & Prospect Development Site, a 52-parcel area. During previous investigations in the larger, 52-parcel area, a plume of volatile organic compounds (VOCs) in groundwater was identified under eight parcels within the Site. According to the Brownfields Assessment Application (EPA 2020), the previous property owners, CRV, LLC, and the City of Kansas City, Missouri, were interested in redeveloping the property, contingent on the findings of this Phase II ESA. The Site has since been sold. Currently, the City and EPA are attempting to establish an access agreement and TBA application for the new owner of the Site.

The scope of this Phase II ESA included collection of subsurface soil, soil-gas, and groundwater samples in January 2022 (Quarter 1 of 2022 sampling event), to confirm or eliminate recognized environmental conditions (RECs) identified during the previous Phase I ESA (SCS 2018) and multiple Phase II ESAs (CEG 2016, Ramboll 2016, SCS 2019). In addition, the Toeroek Team installed three permanent groundwater monitoring wells on the Site in January 2022 for long-term groundwater monitoring that will aid potential remediation under the State of Missouri’s Brownfields/Voluntary Cleanup Program (BVCP) (Toeroek 2022a). The Toeroek Team is now conducting quarterly groundwater sampling of these monitoring wells. This report details the second sampling event of 2023 (Quarter 6) of eight (minimum) total quarterly sampling events planned at the Site.

This Phase II ESA, Quarter 6 report is consistent with ASTM International (ASTM) Standard E1903-19 for Phase II ESAs, and otherwise complies with EPA’s “All Appropriate Inquiries” Rule (40 *Code of Federal Regulations* Part 312).

## **1.1 PURPOSE**

Purposes of this Phase II ESA were to: (1) confirm or eliminate RECs identified during previous investigations; (2) acquire information regarding nature and concentration of contaminants present at the Site in soil and/or groundwater; (3) assess potential impacts on the Site and risks posed by hazardous substances that would support informed business decisions about the Site; and (4) where applicable, satisfy the innocent purchaser defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

## **1.2 SPECIAL TERMS AND CONDITIONS**

No special terms or conditions were identified during the Phase II ESA, Quarter 6 sampling event.

## **2.0 BACKGROUND AND SITE HISTORY**

This section specifies the location of the Site and its features, describes the physical setting, recounts the history of the Site, discusses land uses at the Site and adjacent properties, and relates results of previous investigations.

### **2.1 SITE DESCRIPTION AND FEATURES**

The Site is in Kansas City, Jackson County, Missouri, and appears on the Kansas City, Missouri – Kansas Quadrangle, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 2021) ([Appendix A, Figure 1](#)). The Site consists of eight vacant parcels encompassing approximately 1 acre of land. Coordinates at the approximate center of the Site are 39.071081 degrees north latitude and 94.553162 degrees west longitude.

### **2.2 PHYSICAL SETTING**

The Site lies within the east-central portion of the City of Kansas City, Missouri. It is bounded north by East 30<sup>th</sup> Street, with residential buildings beyond; east by Prospect Avenue, with commercial businesses beyond; south-southeast by Rent-A-Center Furniture Store and associated parking lot, with the Kansas City Public Library and associated parking lot, and East 31<sup>st</sup> Street beyond; west by Wabash Avenue, with residential buildings beyond; and north-northwest by a vacant building, with East 30<sup>th</sup> Street beyond.

#### **2.2.1 Geologic Setting**

Jackson County is within west-central Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area of the Central Feed Grains and Livestock Region of the United States. The Missouri River is the northern boundary of Jackson County. The northern part of Jackson County is a near-level flood plain of the Missouri River. Adjacent to the flood plain and to the south are moderately sloping to steep, loess-covered bluffs and hills. The remainder of Jackson County, which includes the Site area, consists of gently to moderately sloping uplands and flood plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their tributaries (U.S. Department of Agriculture [USDA] 1984).

The upper bedrock formation in the vicinity of the Site consists of the middle Kansas City Group, Missourian Series, Pennsylvania System (Missouri Bureau of Geology and Mines 1917). Underlying the Kansas City Group are the shales of the Pleasanton Group. Underlying the Pleasanton Group are predominantly shales of the Marmaton and Cherokee Groups of the Desmoinesian Series (Missouri

Department of Natural Resources [MoDNR] 1997). Shale bedrock was encountered at depths of approximately 18 to 24 feet (ft) below ground surface (bgs) during the Quarter 1 sampling event in January 2022 (Toeroek 2022a).

Soil at the Site has been classified according to the USDA Soil Conservation Services Web Soil Survey, reviewed in January 2022. The soil consists of urban land, Harvester Complex with 2 to 9 percent slopes. This soil type is moderately well drained with high runoff and consists of silt loam from 0 to 7 inches deep, silty clay loam from 7 to 31 inches deep, and clay loam from 31 to 80 inches deep (USDA 2022).

### **2.2.2 Hydrogeology**

Land surface elevations in Jackson County range from 1,105 ft above mean sea level (amsl) on the divide in the south-central part of the County to 690 ft amsl at normal water level on the Missouri River located on the county line of most of the northern side of the County (USDA 1984). Local topographic elevation at the center of the Site is approximately 980 ft amsl (USGS 2021).

Local Pennsylvanian-age bedrock units generally yield low quantities of marginal quality groundwater high in dissolved solids—particularly chlorides, iron, and bicarbonates (Stohr, St. Ivany, and Williams 1981).

Currently, groundwater is not used for drinking water at or near the Site. The City of Kansas City derives approximately 80 percent of its drinking water from the Missouri River and approximately 20 percent from a well field in the Missouri River Aquifer. The potable water passes through a 240-million-gallon-per-day (MGD) treatment plant before servicing customers inside and outside Kansas City (KC Water 2022). No private drinking water wells are within a 1-mile radius of the Site (MoDNR 2022).

Numerous drainageways dissect the bedrock in this area and flow toward the Missouri River. The Site is relatively flat and slopes to the northwest. Shallow groundwater perches seasonally at the top of bedrock or other competent layers in the subsurface. Transient water also may be encountered within fracture zones and along bedding planes, and frequently discharges at bedrock outcrops (Stohr, St. Ivany, and Williams 1981).

The hydrologic gradient at the Site is not known but may be inferred to be consistent with the topographic gradient, which extends primarily in the north-northwest direction. Groundwater depth and direction likely vary with seasonal changes, precipitation, and other unknown hydrogeologic features.



The static water level, measured at the Site during the Quarter 6 sampling event, was approximately 969 to 972 ft amsl.

### **2.2.3 Hydrology**

Most of the Site is flat and slopes to the north-northwest toward U.S. Highway 49 and to the Missouri River beyond, which is approximately 3.4 miles north-northwest of the Site.

### **2.2.4 Meteorology**

Annual average rainfall in the City of Kansas City, Missouri is 37 inches. Average summer highs are approximately 89 degrees Fahrenheit (°F). Average winter lows are approximately 21°F (National Weather Service 2022).

## **2.3 SITE HISTORY AND LAND USE**

The Site has been developed since at least 1896 and has included mixed residential and commercial areas, with Prospect Avenue as a commercial corridor and residential properties west of Prospect Avenue.

A 5,000-square-foot building was present on the 3012 Prospect Avenue property from as early as 1951 through 2017, when it was demolished (SCS 2018). Historically, commercial and retail businesses at that parcel included automobile service facilities, filling stations, and dry cleaners.

## **2.4 ADJACENT PROPERTY USE**

Surrounding properties have been developed since the late 1800s and early 1900s, and historically have hosted residences and various commercial businesses, including automobile service facilities, filling stations, printing facilities, and dry cleaners (SCS 2018).

## **2.5 SUMMARY OF PREVIOUS ASSESSMENTS**

Multiple Phase I and Phase II ESAs have occurred at the Site. During Phase I ESA investigations, the parcels comprising the Site were found to have previously hosted retail businesses including automobile service facilities, filling stations, and dry cleaners. Phase II ESA investigations have detected high concentrations in soil, soil gas, and groundwater of petroleum compounds and additives, and chlorinated solvents commonly associated with dry cleaning activities, and their breakdown products. Tables summarizing results from previous quarterly sampling events are in [Appendix B](#).

### **Quarter 1, 2022**

The Toeroek Team performed the initial (Quarter 1) sampling event for this Phase II ESA from January 11 through 14, 2022 (Toeroek 2022a). Activities included sampling of subsurface soil, soil gas, and groundwater, and installation of three permanent groundwater monitoring wells. Monitoring wells MW-1 and MW-3 were screened from approximately 12 to 22 ft bgs, and MW-2 was screened from approximately 15 to 25 ft bgs, into the top of the shale bedrock layer.

Low to moderate concentrations of VOCs were detected in nearly all soil, soil-gas, and groundwater samples. Concentrations of multiple chemicals of concern (COCs) exceeded Missouri Risk-based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs) in all media, and EPA Maximum Contaminant Levels (MCLs) in groundwater (Toeroek 2022a). Data for analytes that exceeded LDTLs were then compared to MRBCA Tier 1 Risk-based Target Levels (RBTLs). The MRBCA RBTLs assumed residential land use and clayey soil. Benzene exceeded the MRBCA Tier 1 RBTL for indoor air in one soil-gas sample. Tetrachloroethene (PCE) and trichloroethene (TCE) exceeded their respective EPA MCLs and MRBCA LDTLs in all three groundwater samples. PCE also exceeded the MRBCA RBTL in the groundwater sample collected from monitoring well MW-2.

### **Quarter 2, 2022**

The Toeroek Team conducted the second quarterly (Quarter 2) sampling event on April 19, 2022 (Toeroek 2022b). Activities consisted of sampling the three groundwater monitoring wells previously installed during the Quarter 1 sampling event in January 2022. All groundwater samples collected at the Site during the Quarter 2 sampling event contained low to moderate concentrations of COCs. PCE exceeded the MRBCA RBTL in the groundwater sample collected from MW-2. PCE and TCE exceeded the EPA MCLs and MRBCA LDTLs in all groundwater samples. 1,1,2-Trichloroethane (TCA) exceeded the MRBCA LDTL but not the RBTL in groundwater samples from MW-2 and MW-3.

### **Quarter 3, 2022**

The Toeroek Team performed the third quarterly (Quarter 3) sampling event on July 8, 2022 (Toeroek 2022c). Activities consisted of sampling the three groundwater monitoring wells previously installed during the Quarter 1 sampling event in January 2022, as well as soil-gas sampling at eight locations previously sampled during the Quarter 1 sampling event. All groundwater samples collected at the Site during the Quarter 3 sampling event had low to moderate concentrations of COCs. PCE and TCE exceeded the MRBCA RBTL in the groundwater sample collected from MW-2. PCE and TCE exceeded

the EPA MCLs and MRBCA LDTLs in all groundwater samples. *Cis*-1,2-dichloroethene (DCE) concentration exceeded the MRBCA LDTL but not the RBTL in the groundwater sample from MW-3. No soil-gas samples yielded a COC at a concentration exceeding the corresponding MRBCA RBTL for indoor air.

#### **Quarter 4, 2022**

The Toeroek Team performed the fourth quarterly (Quarter 4) sampling event on December 19, 2022 (Toeroek 2023a). Activities consisted of sampling the three groundwater monitoring wells previously installed during the Quarter 1 sampling event in January 2022. All groundwater samples collected at the Site during the Quarter 4 sampling event had low to moderate concentrations of COCs. PCE exceeded the MRBCA RBTL in the groundwater sample collected from MW-2. PCE and TCE exceeded the EPA MCLs and MRBCA LDTLs in all groundwater samples. *Cis*-1,2-DCE concentration exceeded the MRBCA LDTL but not the RBTL in the groundwater sample collected from MW-3.

#### **Quarter 1, 2023**

The Toeroek Team performed the quarter one of 2023 (Quarter 5) sampling event on March 21st, 2023 (Toeroek 2023b). Activities consisted of sampling the three groundwater monitoring wells previously installed during the Quarter 1 sampling event in January 2022. All groundwater samples collected at the Site during the Quarter 5 sampling event had low to moderate concentrations of COCs. PCE exceeded the MRBCA RBTL in the groundwater sample collected from MW-2. PCE and TCE exceeded the EPA MCLs and MRBCA LDTLs in all groundwater samples. The laboratory detected the following additional COCs in groundwater but at concentrations below the MRBCA LDTL: benzene; *cis*-1,2-DCE; *trans*-1,2-DCE; isopropylbenzene (cumene); and methylene chloride.

### **3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES**

The following subsections describe the scope, field exploration, and methods implemented during the Phase II ESA, Quarter 6 sampling event. This is the sixth of a minimum of eight planned quarterly sampling events. On June 21, 2023, Toeroek Team members Sarah Green and A. J. Paige conducted groundwater sampling of the three groundwater monitoring wells installed during the Quarter 1 sampling event in January 2022. Field activities were documented in the logbook ([Appendix C](#)).

#### **3.1 SCOPE OF THE ASSESSMENT**

The Toeroek Team performed environmental sampling to assess the current level of contamination in groundwater at the Site. Sampling was consistent with the Quality Assurance Project Plan (QAPP) approved by EPA on November 4, 2021 (Toeroek 2021).

##### **3.1.1 Sampling Plan**

The proposed sampling scheme for this project incorporated a combination of biased/judgmental sampling with definitive laboratory analysis, in accordance with procedures included in the *Guidance for Performing Site Inspections Under CERCLA* (Office of Solid Waste and Emergency Response [OSWER] Directive #9345.1-05, September 1992). The objective of the groundwater sampling was to characterize possible releases to the environment. [Figure 2](#) in [Appendix A](#) depicts sampling locations at the Site. Three groundwater samples were collected, one at each of three permanent groundwater monitoring well locations, MW-1, MW-2, and MW-3.

##### **3.1.2 Chemical Testing Plan**

Laboratory analyses for chemical parameters were selected based on likely present contaminants associated with current and historical uses of the Site, and results from previous investigations. All groundwater samples were submitted to Pace Analytical (Pace) in Lenexa, Kansas, for VOCs analysis via EPA Method 8260.

##### **3.1.3 Deviations from the QAPP**

Specific conductivity was not measured during the Quarter 2, 2023 sampling event.

## 3.2 FIELD ACTIVITIES

Quarter 6 field activities occurred at the Site on June 21, 2023. Groundwater samples were submitted to Pace the same day. The following subsections summarize groundwater sample collection activities.

Sampling locations are depicted on [Figure 2](#) in [Appendix A](#).

### 3.2.1 Groundwater Sampling

The Toeroek Team collected groundwater samples from three groundwater monitoring wells installed during the Quarter 1 sampling event in January 2022 ([Appendix A](#), [Figure 2](#)).

Samples were collected after at least three well volumes of water had been purged from each well by use of a bailer. The Toeroek Team measured temperature and pH using a water meter. Parameters were monitored during purging until stabilization (no greater than 10 percent change over three consecutive readings). Readings immediately preceding sample collection were documented in the logbook. Samples were collected into three 40-milliliter (mL) volatile organic analysis (VOA) vials preserved with hydrochloric acid. Samples were analyzed for VOCs via EPA Method 8260. [Table 1](#) summarizes groundwater levels and samples collected during this Phase II ESA, Quarter 6 sampling event.

**TABLE 1**  
**GROUNDWATER LEVEL AND SAMPLE SUMMARY, QUARTER 6**  
**31<sup>st</sup> & PROSPECT DEVELOPMENT SITE**

| Location ID(s) | Depth to Groundwater<br>(ft btoc) | Static Water Level<br>(ft amsl) | Analysis Performed          |
|----------------|-----------------------------------|---------------------------------|-----------------------------|
| MW-1/DUP       | 13.05                             | 971.79                          | VOCs via<br>EPA Method 8260 |
| MW-2           | 14.70                             | 969.35                          |                             |
| MW-3           | 13.92                             | 969.06                          |                             |

Notes:

EPA     U.S. Environmental Protection Agency  
ft amsl     Feet above mean sea level  
ft btoc     Feet below top of casing  
ID     Identification  
MW     Monitoring well  
VOC     Volatile organic compound

### 3.2.2 Quality Control Sampling

Field quality control (QC) samples for this investigation included one laboratory-supplied aqueous trip blank and one groundwater field duplicate (DUP) collected at MW-1. Pace analyzed the QC samples for VOCs. Analytical data from the trip blank were referenced to determine whether contamination had been

introduced in the field and/or during transportation of containers and samples. The field duplicate was collected to determine total method precision. Analytical results from field duplicate samples were used to calculate the relative percent difference (RPD) between results from the duplicate and associated field sample for each reported analyte. The RPDs served informational purposes only; however, the higher concentration of each analyte in the duplicate sample pair was compared to the associated screening level. Analytical accuracy was determined via analysis of laboratory-prepared spikes and duplicates. RPDs are discussed with the applicable data validation reports in [Appendix D](#).

## 4.0 EVALUATION AND PRESENTATION OF RESULTS

The following subsections present analytical data from groundwater samples collected during the Phase II ESA, Quarter 6 sampling event. Groundwater sample results were compared to EPA MCLs or Regional Screening Levels (RSLs) for tap water, MRBCA LDTLs, and MRBCA Tier 1 residential RBTLS for Type 3 (clayey) soils (EPA 2023; MoDNR 2006). For RSLs, a total hazard quotient of 1.0 was assumed. Copies of analytical data packages and data validation reports are in [Appendix D](#). [Table 2](#) below lists all detections of VOCs in groundwater. [Figure 3](#) in [Appendix A](#) shows detections of VOCs exceeding MRBCA screening levels and/or EPA MCLs/RSLs in groundwater. Tables summarizing results from previous quarterly sampling events are in [Appendix B](#).

### 4.1 GROUNDWATER SAMPLES

Three groundwater samples were collected, one from each monitoring well, MW-1, MW-2, and MW-3. A duplicate sample (DUP) was collected at MW-1.

The laboratory detected the following COCs in groundwater samples collected from MW-1, MW-2, and MW-3: benzene, *cis*-1,2-DCE; *trans*-1,2-DCE; methylene chloride; PCE; and TCE. COC exceedances included:

- MW-1: *Cis*-1,2-DCE, PCE, and TCE were detected in the groundwater sample. PCE and TCE concentrations exceeded their respective EPA MCLs and MRBCA LDTLs. Neither exceeded the MRBCA RBTL.
- MW-2: *Cis*-1,2-DCE, PCE, and TCE were detected in the groundwater sample. PCE and TCE concentrations exceeded their respective EPA MCLs and MRBCA LDTLs. PCE also exceeded the corresponding MRBCA RBTL. Methylene chloride, a common laboratory contaminant, was also detected at an estimated concentration of 26.8 µg/L (J qualifier).
- MW-3: Benzene, *cis*-1,2-DCE, *trans*-1,2-DCE, PCE, and TCE were detected in the groundwater sample. *Cis*-1,2-DCE, PCE, and TCE concentrations exceeded their respective EPA MCLs and MRBCA LDTLs in both the original and duplicate sample. None exceeded MRBCA RBTL.

The MRBCA RBTL assumed clayey soil and a primary risk from vapor inhalation (residential scenario). No other COC was detected at a concentration exceeding a MRBCA screening level or EPA MCL.

TABLE 2

**DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES, QUARTER 6  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE**

| Sample Location   | Benzene   | <i>cis</i> -1,2-DCE | <i>trans</i> -1,2-DCE | PCE     | TCE    |
|-------------------|---|---------------------|-----------------------|---------|--------|
|                   | EPA MCL   |                     |                       |         |        |
|                   | 5   | 70                  | 100                   | 5       | 5      |
|                   | MRBCA LDTL (All Soil Types, All Pathways)   |                     |                       |         |        |
|                   | 5   | 70                  | 100                   | 5       | 5      |
|                   | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                     |                       |         |        |
|                   | 2,880   | 19,400              | 17,800                | 928     | 4,490  |
| MW-1              | ND UJ   | 2.5 J               | ND UJ                 | 44.8 J  | 12.2 J |
| DUP (MW-1)        | ND UJ   | 3.7 J               | ND UJ                 | 53.3 J  | 15.5 J |
| MW-2 <sup>a</sup> | ND UJ   | 13.7 J              | ND UJ                 | 7,240 J | 77.5 J |
| MW-3              | 0.57 J  | 71.4 J              | 0.81 J                | 187 J   | 111 J  |

Notes:

<sup>a</sup> Methylene chloride, a common laboratory contaminant, was detected in sample MW-2 at a concentration of 26.8 µg/L (J-coded).

All values are in micrograms per liter (µg/L).

**Bold** font indicates the concentration exceeds the MCL/RSL and/or LDTL.

**Red** text indicates the concentration exceeds the RBTL.

|       |  |
|-------|--|
| EPA   | U.S. Environmental Protection Agency   |
| DCE   | Dichloroethene   |
| DUP   | Duplicate  |
| J     | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.            |
| LDTL  | Lowest Default Target Level—regarding these analytes, all linked to protection for domestic groundwater use pathway. |
| MCL   | Maximum Contaminant Level (EPA 2022)   |
| MRBCA | Missouri Risk-based Corrective Action (Missouri Department of Natural Resources 2006)                                |
| MW    | Monitoring well  |
| ND    | Not detected   |
| PCE   | Tetrachloroethene  |
| RBTL  | Risk-based Target Level  |
| TCE   | Trichloroethene  |
| UJ    | Estimated as a non-detect  |
| VOC   | Volatile organic compound  |

## 4.2 QUALITY CONTROL SAMPLES

[Appendix D](#) provides a discussion of QC samples. Pace analyzed QC samples for VOCs. No VOCs were detected in the trip blank or the field blank.

Because of high temperatures during the Quarter 6 sampling event (90°F at the start of the field activity) and because samples were delivered the same day to the laboratory, samples arrived at the laboratory at a temperature of 14.6 degrees Celsius (°C). Because of the elevated temperature, the Toeroek Team data validator applied “J” and “UJ” data qualifier codes to all analytical results.



Field duplicate precision was not met for 1,2-DCE (total), *cis*-1,2-DCE, and TCE between the parent sample (MW-1) and the field duplicate (DUP). In addition, the results for these analytes should be considered estimated. All analyte concentrations were usable and reliable, with the qualifications applied.

## 5.0 DISCUSSION OF SIGNIFICANT FINDINGS AND CONCLUSIONS

This section summarizes significant findings and offers conclusions regarding the Phase II ESA, Quarter 6 sampling event.

All groundwater samples collected at the Site had low to moderate concentrations of COCs. The laboratory detected the following COCs: benzene, *cis*-1,2-DCE; *trans*-1,2-DCE; PCE; and TCE. COC exceedances included:

- PCE and TCE concentrations exceeded their respective EPA MCLs and MRBCA LDTLs in all groundwater samples.
- *Cis*-1,2-DCE was detected in MW-3 and exceeded its respective EPA MCL and MRBCA LDTL.
- Only the concentration of PCE in the groundwater sample from MW-2 exceeded the MRBCA RBTL.

No other COC was detected at a concentration exceeding a MRBCA screening level or EPA MCL.

## 6.0 REFERENCES

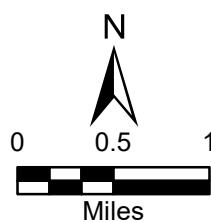
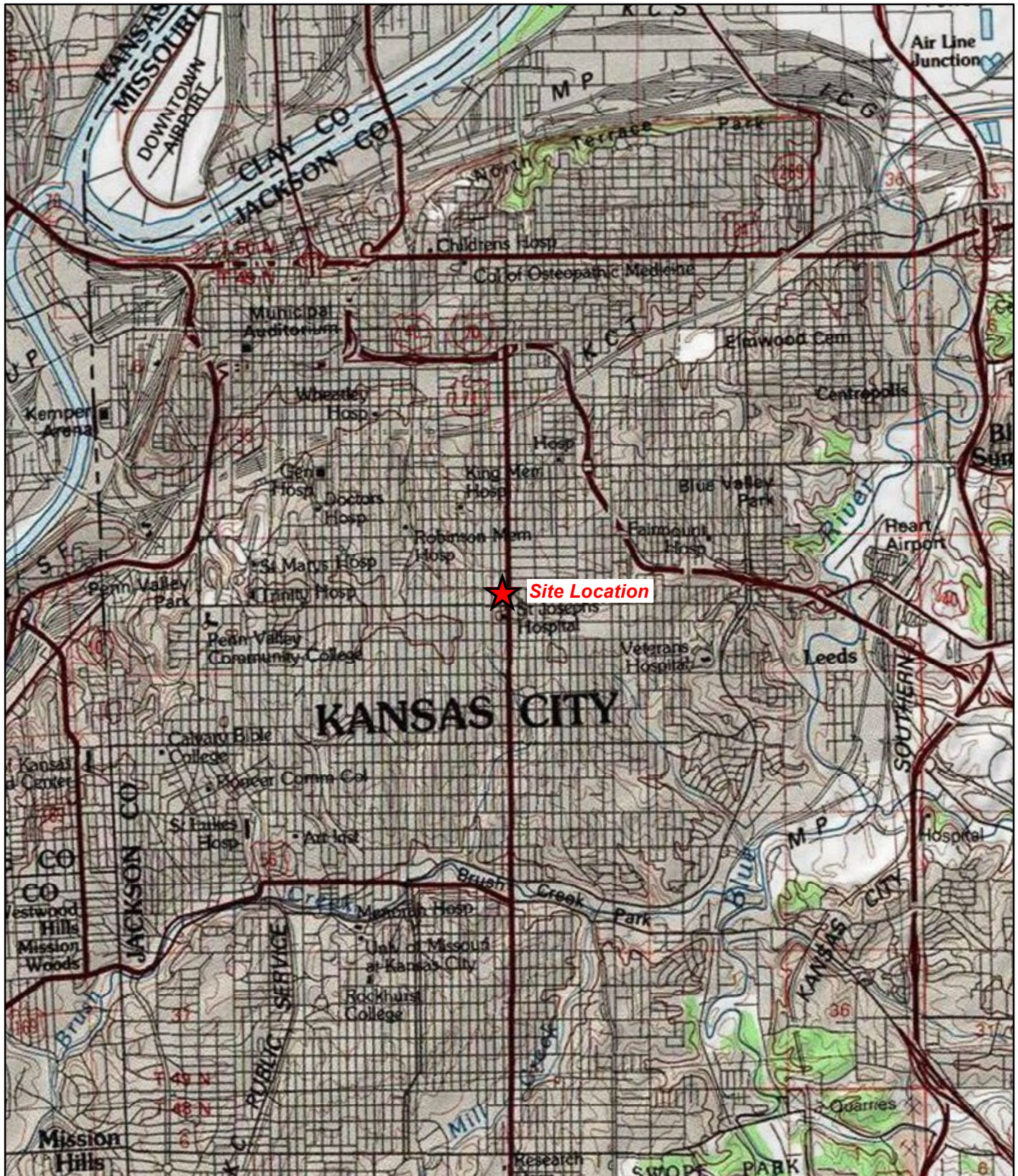
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## **APPENDIX A**

### **FIGURES**



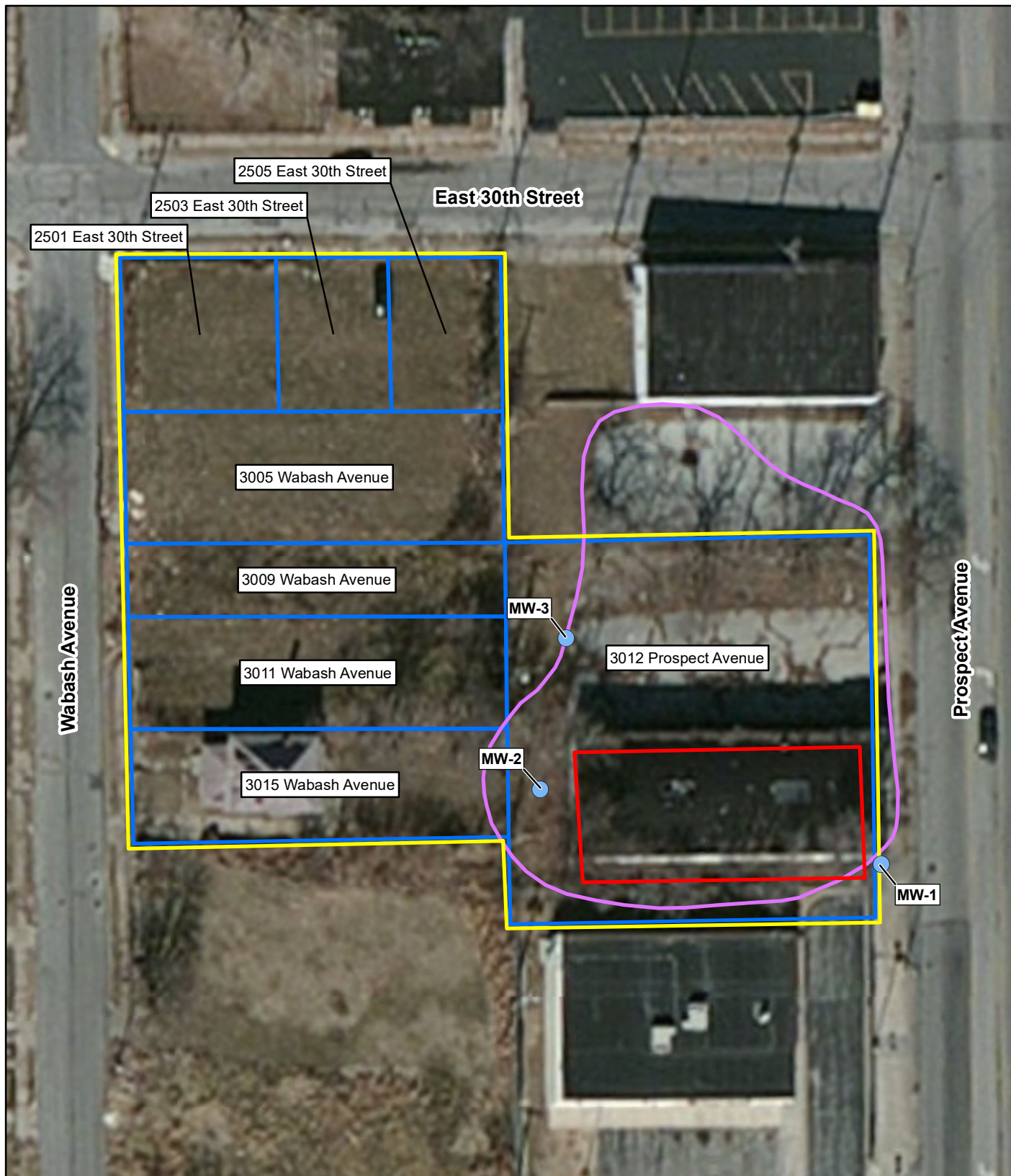


31<sup>st</sup> & Prospect Development Site  
Kansas City, Missouri

**Figure 1**  
Site Location Map

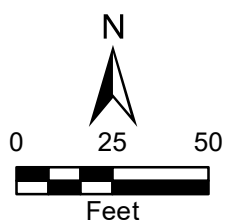






#### Legend

- Monitoring well location
- Area of soil and groundwater contamination
- Former dry cleaning facility
- Site boundary
- Parcel



31st & Prospect Development Site  
Kansas City, Missouri

**Figure 2**  
Sample Location Map



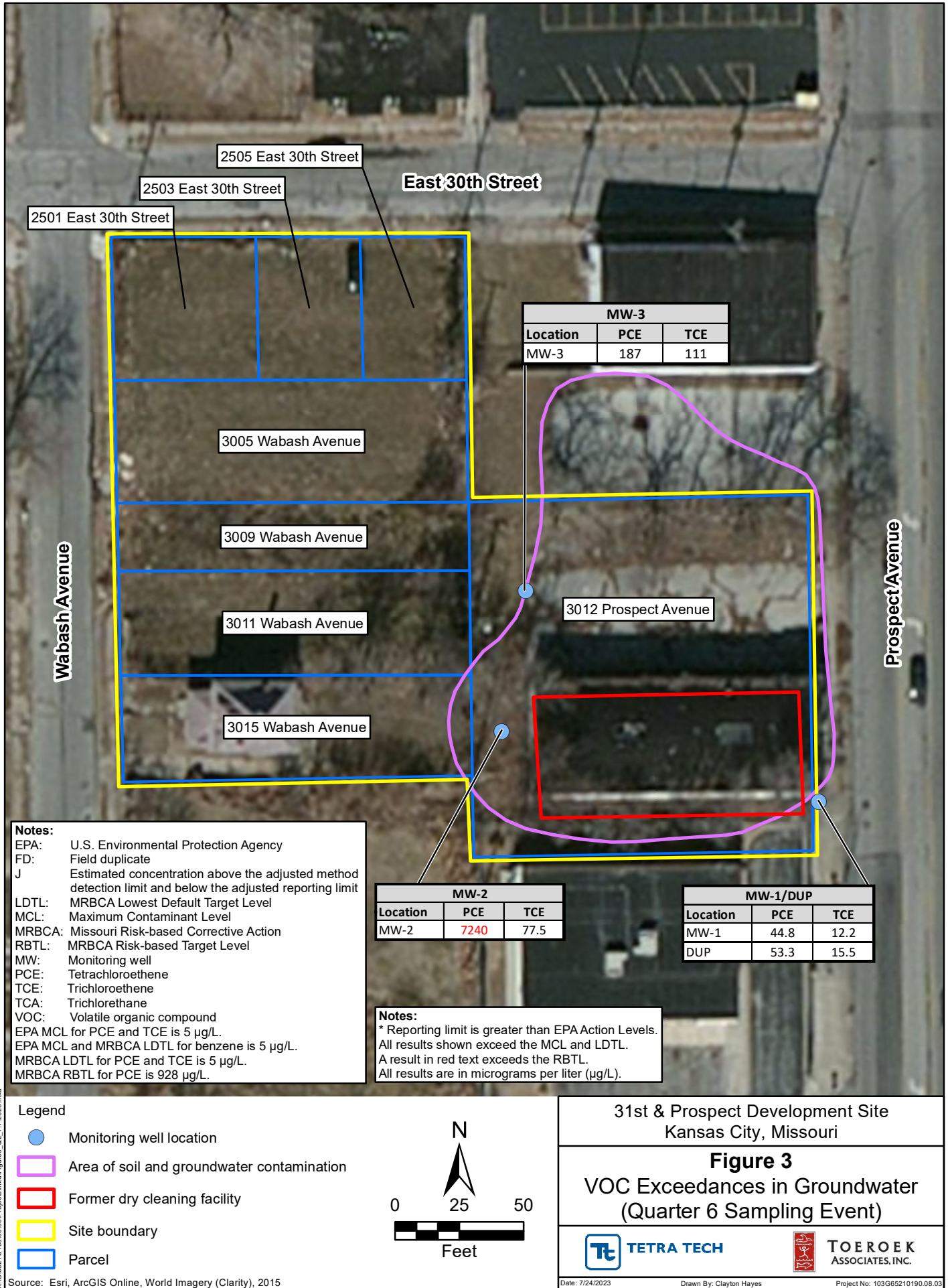
Date: 2/9/2023

Drawn By: Rachel Page

Project No: 103G65210190.08.03

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Source: Esri, ArcGIS Online, World Imagery (Clarity), 2015





**APPENDIX B**  
**HISTORICAL ANALYTICAL RESULTS**

QUARTER 1, JANUARY 2022

DETECTED VOC RESULTS FROM SOIL SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location  | Acetone   | Benzene   | 2-Butanone<br>(Methyl Ethyl Ketone) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Chloroform | cis-1,2-DCE | 1,2-Dichloropropane | Ethylbenzene | Hexachloro-1,3-<br>Butadiene |
|------------------|---|-----------|-------------------------------------|----------------|------------------|-------------------|------------|-------------|---------------------|--------------|------------------------------|
|                  | MRBCA LDTL (All Soil Types, All Pathways, GWP and INH*)                             |           |                                     |                |                  |                   |            |             |                     |              |                              |
|                  | 4,200   | 561       | 7,300                               | 41,600         | 35,200           | 34,1000           | 76.6*      | 521         | 42                  | 39,900       | NE                           |
|                  | MRBCA RBTL (Tier 1, Residential Land Use, Surface Soil, Outdoor Inhalation, Clayey) |           |                                     |                |                  |                   |            |             |                     |              |                              |
|                  | 487,000,000   | 3,500,000 | 772,000,000                         | 21,600,000     | 21,600,000       | 21,600,000        | 783,000    | 5,410,000   | 618,000             | 157,000,000  | NE                           |
| SB-1-(7-8)       | <17.6   | 1.3 J     | <3.7                                | <0.71          | <0.79            | <0.96             | <0.54      | <0.47       | <1.1                | <5.0         | <0.92                        |
| SB-1-(7-8)-FD    | <18.2   | 2.1 J     | <3.8                                | <0.73          | <0.82            | <0.99             | <0.55      | <0.48       | <1.1                | <0.52        | <0.96                        |
| SB-1-(21-22)     | <18.5   | 0.57 J    | <3.9                                | <0.74          | <0.84            | <1.0              | <0.56      | <0.49       | <1.1                | <0.53        | <0.97                        |
| SB-2-(19-20)     | <16.8   | <0.51     | <3.5                                | <0.67          | <0.76            | <0.91             | <0.51      | 0.55 J      | <1.0                | <0.48        | <0.88                        |
| SB-2-(24-25)     | <15.7   | 0.86 J    | <3.3                                | <0.63          | <0.71            | <0.85             | <0.48      | <0.42       | <0.95               | <0.45        | <0.82                        |
| SB-3-(4-5)       | <17.6   | <0.54     | <3.7                                | <0.71          | <0.79            | <0.96             | <0.54      | <0.47       | <1.1                | <0.50        | <0.93                        |
| SB-3-(21-22)     | <17.2   | 2.0 J     | <3.6                                | 18.4           | 12.6             | 1.2 J             | 5.4        | 1.3 J       | <1.0                | 0.50 J       | <0.90                        |
| SB-4-(11.5-12.5) | <16.2   | <0.49     | <3.4                                | <0.65          | <0.73            | <0.89             | <0.49      | 113         | <0.98               | <0.46        | <0.85                        |
| SB-4-(23-24)     | <15.4   | <0.47     | <3.2                                | <0.62          | <0.70            | <0.84             | <0.47      | 0.59 J      | <0.93 J-            | <0.44        | <0.81                        |
| SB-5-(4-5)       | 56.5  | 0.59 J    | 7.1 J                               | <0.70          | <0.79            | <0.95             | <0.53      | <0.47       | <1.1                | <0.50        | <0.92                        |
| SB-5-(19-20)     | <21.6   | <0.66     | <4.6                                | <0.87          | <0.98            | <1.2              | <0.66      | <0.58       | <1.3                | <0.62        | <1.1                         |
| SB-6-(19-20)     | <16.2   | <0.49     | <3.4                                | <0.65          | <0.73            | <0.88             | <0.49      | <0.43       | <0.98               | <0.46        | <0.85                        |
| SB-6-(22.5-23.5) | <15.8   | <0.48     | <3.3                                | <0.64          | <0.72            | <0.86             | <0.48      | <0.42       | <0.96               | <0.45        | <0.83                        |
| SB-7-(13.5-14.5) | <17.0   | 0.55 J    | <3.6                                | <0.77          | <0.93            | <0.67             | <0.52      | 14.2        | <1.0                | <0.48        | <0.89                        |
| SB-7-(19-20)     | 318 J   | <23.2     | <126                                | <50.4          | 47.3 J           | <35.1             | <22.2      | 62.0 J      | <20.6               | <28.8        | 85.7 J                       |
| SB-8-(19-20)     | <1,400  | 66,300    | <737                                | 5,820          | 1,730            | <205              | 383 J      | <151        | 1,430 J             | 14,400       | <411                         |
| SB-8-(23-24)     | <251  | 17,300    | 521 J                               | <52.6          | <43.9            | <36.7             | <23.2      | <26.9       | <21.5               | 144 J        | <73.4                        |

QUARTER 1, JANUARY 2022

DETECTED VOC RESULTS FROM SOIL SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location  | 2-Hexanone  | Isopropylbenzene<br>(Cumene) | p-Isopropyltoluene | Naphthalene | n-Propylbenzene | PCE       | Toluene     | TCE       | 1,2,4-TMB | 1,3,5-TMB       | Xylene     |
|------------------|---|------------------------------|--------------------|-------------|-----------------|-----------|-------------|-----------|-----------|-----------------|------------|
|                  | MRBCA LDTL (All Soil Types, All Pathways, GWP and INH*)                             |                              |                    |             |                 |           |             |           |           |                 |            |
|                  | NE  | 10,500*                      | NE                 | 325         | 10,300          | 141       | 29,100      | 141       | 3,930     | 882             | 24,700*    |
|                  | MRBCA RBTL (Tier 1, Residential Land Use, Surface Soil, Outdoor Inhalation, Clayey) |                              |                    |             |                 |           |             |           |           |                 |            |
|                  | NE  | 61,800,000                   | NE                 | 465,000     | 21,600,000      | 3,000,000 | 757,000,000 | 9,010,000 | 927,000   | 223,000,000,000 | 15,700,000 |
| SB-1-(7-8)       | <2.7  | <6.2                         | <7.5               | 8.3 J       | <0.87           | <0.45     | <0.38       | <0.79     | <0.73     | <0.68           | <1.2       |
| SB-1-(7-8)-FD    | <2.8  | <0.64                        | <0.77              | <0.92       | <0.90           | <0.46     | <0.40       | <0.81     | <0.75     | <0.70           | <1.3       |
| SB-1-(21-22)     | <2.8  | <0.65                        | <0.79              | <0.94       | <0.92           | 0.95 J    | 0.64 J      | <0.83     | <0.77     | <0.72           | <1.3       |
| SB-2-(19-20)     | <2.6  | <0.59                        | <0.71              | <0.85       | <0.83           | 626       | <0.36       | 4.6 J     | <0.83     | <0.65           | <1.2       |
| SB-2-(24-25)     | <2.4  | <0.55                        | <0.67              | <0.79       | <0.78           | 1,140     | 0.59 J      | 2.5 J     | <0.65     | <0.61           | <1.1       |
| SB-3-(4-5)       | <2.7  | <0.62                        | <0.75              | <0389       | <0.87           | <0.45     | <0.38       | <0.79     | <0.73     | <0.68           | <1.2       |
| SB-3-(21-22)     | 84.7  | 32                           | <0.73              | 5.7 J       | 14.4            | 1.3 J     | 0.59 J      | <0.77     | <0.71     | 1.0 J           | <1.2       |
| SB-4-(11.5-12.5) | <2.5  | <0.57                        | <0.69              | <0.82       | <0.81           | 10,100    | <0.35       | 3,640     | <0.67     | <0.63           | <1.1       |
| SB-4-(23-24)     | <2.4  | <0.54                        | <0.66              | <0.78       | <0.76           | 3.7 J     | 0.61 J      | 2.8 J     | <0.76     | <0.60           | <1.1       |
| SB-5-(4-5)       | <2.7  | <0.62                        | <0.74              | <0.89       | <0.87           | 7.3       | 0.74 J      | <0.78     | <0.72     | <0.68           | <1.2       |
| SB-5-(19-20)     | <3.3  | <0.76                        | <0.92              | <1.1        | <1.1            | 8.4       | <0.47       | <0.97     | <0.89     | <0.84           | <1.5       |
| SB-6-(19-20)     | <2.5  | <0.57                        | <0.69              | <0.82       | <0.80           | <0.41     | <0.35       | <0.72     | <0.67     | <0.63           | <1.1       |
| SB-6-(22.5-23.5) | <2.4  | <0.56                        | <0.67              | <0.80       | <0.79           | <0.40     | <0.34       | <0.71     | <0.66     | <0.61           | <1.1       |
| SB-7-(13.5-14.5) | <2.6  | <0.60                        | <0.72              | <0.86       | <0.84           | 2,470     | <0.37       | 961       | <0.70     | <0.66           | <1.2       |
| SB-7-(19-20)     | <107  | 39.0 J                       | <41.5              | 299 J       | <40.3           | 371 J+    | <25.4       | 149 J     | 40.3 J    | <39.4           | <90.7      |
| SB-8-(19-20)     | <628  | 4,030                        | 4,210              | 14,000      | 6,200           | <145      | 50,400      | 214 J     | 42,600    | 13,700          | 103,000    |
| SB-8-(23-24)     | <112  | <40.3                        | <43.4              | 387 J       | <42.1           | <25.0     | 211 J       | <25.3     | 277 J     | 94.1 J          | 800        |

Notes:

All values are in micrograms per kilogram (µg/kg).

**Bold** font indicates the concentration exceeds the reporting limit.  
*Italic* font indicates the concentration exceeds the LDTL.

\*The LDTL is based on the indoor inhalation pathway.

- DCEDichloroethene
- GWPProtection of domestic groundwater use pathway
- INHIndoor inhalation pathway
- JEstimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- J+Estimated concentration with a possible high bias
- J-Estimated concentration with a possible low bias
- LDTLLowest Default Target Level
- MRBCAMissouri Risk-based Corrective Action
- NENot established
- PCETetrachloroethene
- RBTLRisk-based Target Level
- SBSoil boring
- TCETrichloroethene
- TMBTrimethylbenzene
- VOCVolatile organic compound

QUARTER 1, JANUARY 2022

DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | 1,1-DCE  | 1,2,4-TMB       | 1,2-DCA          | 1,3,5-TMB     | 1,3-Butadiene | 2-Butanone (Methyl Ethyl Ketone) | 2-Propanol  | 4-Ethyltoluene | 4-Methyl-2-pentanone | Acetone    |
|-----------------|--|-----------------|------------------|---------------|---------------|----------------------------------|-------------|----------------|----------------------|------------|
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Soil Vapor, Indoor Inhalation, Clayey) |                 |                  |               |               |                                  |             |                |                      |            |
|                 | 14,500,000   | 521,000         | NE               | 521,000       | NE            | 352,000,000                      | NE          | NE             | NE                   | 14,300,000 |
| SG-1-(7-7.5)    | <1.98  | 6.69            | <0.809           | <2.46         | 0.819         | 4.07                             | <2.46       | <2.46          | 4.87                 | 34         |
| SG-2-(4.5-5)    | <79.3  | <98.3           | <32.4            | <98.3         | <17.7         | <118                             | <98.3       | <98.3          | <164                 | <95        |
| SG-3-(4.5-5)    | <1.98  | 4.72            | <0.809           | <2.46         | 1.59          | 13.8                             | <2.46       | <2.46          | <2.46                | 98.6       |
| SG-4-(7.5-8)    | <79.3  | <98.3           | <32.4            | <98.3         | <17.7         | <118                             | <98.3       | <98.3          | <164                 | <95        |
| SG-4-(22.5-23)  | <79.3  | <98.3           | <32.4            | <98.3         | <17.7         | <118                             | <98.3       | <98.3          | <164                 | 132        |
| SG-5-(4.5-5)    | <1.98  | <2.46           | <0.809           | <2.46         | 1.13          | <2.95                            | <2.46       | <2.46          | <2.46                | 32.8       |
| SG-5-(16.5-17)  | <1.98  | <2.46           | <0.809           | <2.46         | 11.4          | 24.6                             | <2.46       | <2.46          | <4.10                | 102        |
| SG-6-(4.5-5)    | <1.98  | <2.46           | <0.809           | <2.46         | 0.553         | 28.3                             | 2.53        | <2.46          | <4.10                | 76         |
| SG-7-(4.5-5)    | <1.98  | 5.01            | <0.809           | <2.46         | 1.77          | 5.31                             | <2.46       | <2.46          | <4.10                | 56.6       |
| SG-7-(16.5-17)  | 80.9   | <98.3           | <32.4            | <98.3         | <17.7         | <118                             | <98.3       | <98.3          | <164                 | <95        |
| SG-8-(4.5-5)    | <1.98  | 6.64            | 15.8             | 2.61          | 1.04          | 6.02                             | 12.8        | 2.65           | <4.10                | 51.5       |
| Sample Location | Benzene  | Benzyl Chloride | Carbon Disulfide | Chloromethane | cis-1,2-DCE   | Isopropylbenzene (Cumene)        | Cyclohexane | Ethylbenzene   | Heptane              | Hexane     |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Soil Vapor, Indoor Inhalation, Clayey) |                 |                  |               |               |                                  |             |                |                      |            |
|                 | 1,430  | NE              | 21,400           | 722           | 7,010         | 34,800,000                       | NE          | 646,000        | NE                   | NE         |
| SG-1-(7-7.5)    | 4.4  | <5.18           | 2.83             | <1.03         | <1.98         | <2.46                            | 3.30        | 9.25           | 8.93                 | 5.32       |
| SG-2-(4.5-5)    | <63.9  | <207            | <62.3            | <41.3         | <79.3         | <98.3                            | <68.8       | <86.8          | <82                  | <70.5      |
| SG-3-(4.5-5)    | 3.10   | <5.18           | 20.9             | <1.03         | <1.98         | <2.46                            | 42.5        | 5.56           | 39.6                 | 65.6       |
| SG-4-(7.5-8)    | <63.9  | <207            | <62.3            | <41.3         | 1,210         | <98.3                            | <68.8       | <86.8          | <82                  | <70.5      |
| SG-4-(22.5-23)  | <63.9  | <207            | <62.3            | <41.3         | 2,740         | <98.3                            | <68.8       | <86.8          | <82                  | <70.5      |
| SG-5-(4.5-5)    | 2.91   | <5.18           | <1.56            | <1.03         | <1.98         | <2.46                            | <1.72       | <2.17          | 3.65                 | 1.90       |
| SG-5-(16.5-17)  | 12.7   | <5.18           | 7.32             | 2.73          | 5.79          | <2.46                            | 3.41        | 3.39           | 11.4                 | 12.3       |
| SG-6-(4.5-5)    | 3.96   | <5.18           | <1.56            | <1.03         | <1.98         | <2.46                            | <1.72       | 3.60           | 5.82                 | 2.57       |
| SG-7-(4.5-5)    | 4.82   | <5.18           | 4.05             | <1.03         | 3.81          | <2.46                            | 19.7        | 7.47           | 21.4                 | 18.5       |
| SG-7-(16.5-17)  | 731  | 358             | <62.3            | <41.3         | 3,790         | 108                              | 72,100      | 109            | 86,300               | 226,000    |
| SG-8-(4.5-5)    | 2,610  | <5.18           | 3.64             | <1.03         | 7.45          | <2.46                            | 30.3        | 15.5           | 333                  | 202        |
| Sample Location | m,p-Xylene   | o-Xylene        | Propene          | Styrene       | PCE           | Tetrahydrofuran                  | Toluene     | TCE            | Vinyl Chloride       |            |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Soil Vapor, Indoor Inhalation, Clayey) |                 |                  |               |               |                                  |             |                |                      |            |
|                 | 9,450,000  | 9,450,000       | NE               | 91,700,000    | 648,000       | 1,430,000                        | 367,000,000 | 1,770,000      | 300,000              |            |
| SG-1-(7-7.5)    | 26.6   | 9.99            | 11.2             | 3.54          | 8             | <1.47                            | 439         | <1.07          | <1.28                |            |
| SG-2-(4.5-5)    | <86.8  | <86.8           | <34.4            | <85.2         | 86,800        | <59                              | <75.4       | 843            | <51.1                |            |
| SG-3-(4.5-5)    | 19.3   | 6.51            | 29.7             | <2.13         | 10.4          | <1.47                            | 410         | 1.77           | <1.28                |            |
| SG-4-(7.5-8)    | <86.8  | <86.8           | <34.4            | <85.2         | 84,600        | <59                              | 297         | 31,300         | <51.1                |            |
| SG-4-(22.5-23)  | <86.8  | <86.8           | <34.4            | <85.2         | 61,200        | <59                              | 1,040       | 50,400         | <51.1                |            |
| SG-5-(4.5-5)    | 6.51   | <2.17           | 18.8             | <2.13         | 17.5          | <1.47                            | 180         | <1.07          | <1.28                |            |
| SG-5-(16.5-17)  | 10.7   | 3.13            | 291              | <2.13         | 37.7          | 4.01                             | 441         | 7.36           | <1.28                |            |
| SG-6-(4.5-5)    | 11.5   | 3.52            | 26.1             | <2.13         | 17.8          | 2.57                             | 395         | 1.40           | <1.28                |            |
| SG-7-(4.5-5)    | 24.3   | 8.12            | 15.9             | <2.13         | 96.9          | <1.47                            | 550         | 52.3           | <1.28                |            |
| SG-7-(16.5-17)  | <86.8  | <86.8           | 467              | <85.2         | 13,600        | 166                              | 983         | 19,900         | 317                  |            |
| SG-8-(4.5-5)    | 52.5   | 15              | 13.4             | <2.13         | 10.2          | <1.47                            | 708         | 11.6           | <1.28                |            |

QUARTER 1, JANUARY 2022

DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

Notes:

All values are in micrograms per cubic meter (µg/m³).

**Bold** font indicates the concentration exceeds the reporting limit.  
*Italic* font indicates the concentration exceeds the RBTL.

|       |                                       |
|-------|---------------------------------------|
| DCE   | Dichloroethene                        |
| DCA   | Dichloroethane                        |
| MRBCA | Missouri Risk-based Corrective Action |
| NE    | Not established                       |
| PCE   | Tetrachloroethene                     |
| RBTL  | Risk-based Target Level               |
| SG    | Soil gas                              |
| TCE   | Trichloroethene                       |
| TMB   | Trimethylbenzene                      |
| VOC   | Volatile organic compound             |

QUARTER 1, JANUARY 2022

DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | Acetone   | Benzene                      | 2-Butanone<br>(Methyl Ethyl Ketone) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Chloroform | 1,1-DCE   | cis-1,2-DCE    | trans-1,2-DCE |
|-----------------|---|------------------------------|-------------------------------------|----------------|------------------|-------------------|------------|-----------|----------------|---------------|
|                 | EPA MCL   |                              |                                     |                |                  |                   |            |           |                |               |
|                 | NE  | 5                            | NE                                  | NE             | NE               | NE                | NE         | 7         | 70             | 100           |
|                 | MRBCA LDTL (All Soil Types, All Pathways, DWG)  |                              |                                     |                |                  |                   |            |           |                |               |
|                 | 2,970   | 5                            | 3,640                               | 98.9           | 106              | 103               | 80         | 07        | 70             | 100           |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                              |                                     |                |                  |                   |            |           |                |               |
|                 | 101,000,000   | 2,880                        | 153,000,000                         | 24,300         | 17,100           | 26,200            | 814        | 14,700    | 19,400         | 17,800        |
| MW-1            | <2.5  | <0.14                        | <0.98                               | <0.15          | <0.11            | <0.12             | <0.22      | <0.22     | 4.5            | 0.28 J        |
| MW-1-FD         | <2.5  | <0.14                        | <0.98                               | <0.15          | <0.11            | <0.12             | <0.22      | <0.22     | 4.4            | <0.18         |
| MW-2            | <2.5  | 0.38 J                       | <0.98                               | <0.15          | <0.11            | <0.12             | 0.36 J     | 0.37 J    | 19.8           | 0.83 J        |
| MW-3            | 19.1 J+   | 2.4                          | <0.98                               | 1.3            | 1.5              | 0.25 J            | 0.76 J     | <0.22     | 20.6           | 0.49 J        |
| Sample Location | 1,2-Dichloropropane   | Isopropylbenzene<br>(Cumene) | n-Propylbenzene                     | PCE            | Toluene          | 1,1,2-TCA         | TCE        | 1,3,5-TMB | Vinyl Chloride | Xylene        |
|                 | EPA MCL   |                              |                                     |                |                  |                   |            |           |                |               |
|                 | 5   | NE                           | NE                                  | 5              | 1000             | NE                | 5          | NE        | 2              | 10,000        |
|                 | MRBCA LDTL (All Soil Types, All Pathways, DWG)  |                              |                                     |                |                  |                   |            |           |                |               |
|                 | 5   | 330                          | 115                                 | 5              | 1,000            | 5                 | 5          | 7.05      | 2              | 10,000        |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                              |                                     |                |                  |                   |            |           |                |               |
|                 | 3,040   | 10,600                       | 30,300                              | 928            | 1,440,000        | 6,150             | 4,490      | 1,550     | 2.06           | 33,500        |
| MW-1            | <0.14   | <0.097                       | <0.12                               | 143            | <0.25            | <0.14             | 57         | <0.090    | <0.17          | <0.28         |
| MW-1-FD         | <0.14   | <0.097                       | <0.12                               | 159            | <0.25            | <0.14             | 55.6       | <0.090    | <0.17          | <0.28         |
| MW-2            | 0.55 J  | <0.097                       | <0.12                               | 3,290          | 1.2              | 0.50 J            | 106        | <0.090    | 0.41 J         | 0.38 J        |
| MW-3            | <0.14   | 5.7                          | 1.8                                 | 166            | 0.87 J           | 0.45 J            | 47.9       | 0.12 J    | 0.85 J         | 0.43 J        |

Notes:

All values are in micrograms per liter (µg/L).

**Bold** font indicates the concentration exceeds the reporting limit.  
*Italic* font indicates the concentration exceeds the MCL and LDTL.  
**Red** text indicates the concentration exceeds the RBTL.

|       |  |
|-------|--|
| EPA   | U.S. Environmental Protection Agency   |
| DCE   | Dichloroethene   |
| DWG   | Protection for domestic groundwater use pathway  |
| J     | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| J+    | Estimated concentration with a possible high bias  |
| LDTL  | Lowest Default Target Level  |
| MCL   | Maximum Contaminant Level  |
| MRBCA | Missouri Risk-based Corrective Action  |
| MW    | Monitoring well  |
| NE    | Not established  |
| PCE   | Tetrachloroethene  |
| RBTL  | Risk-based Target Level  |
| TCE   | Trichloroethene  |
| TCA   | Trichloroethane  |
| TMB   | Trimethylbenzene   |
| VOC   | Volatile organic compound  |

QUARTER 2, APRIL 2022

DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | Acetone   | Benzene                     | Chloroform | <i>cis</i> -1,2-DCE | <i>trans</i> -1,2-DCE | 1,2-Dichloropropane | Isopropylbenzene (Cumene) |
|-----------------|---|-----------------------------|------------|---------------------|-----------------------|---------------------|---------------------------|
|                 | EPA MCL   |                             |            |                     |                       |                     |                           |
|                 | NE  | 5                           | NE         | 70                  | 100                   | 5                   | NE                        |
|                 | MRBCA LDTL (All Soil Types, All Pathways, DWG)  |                             |            |                     |                       |                     |                           |
|                 | 2,970   | 5                           | 80         | 70                  | 100                   | 5                   | 330                       |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                             |            |                     |                       |                     |                           |
|                 | 101,000,000   | 2,880                       | 814        | 19,400              | 17,800                | 3,040               | 10,600                    |
| MW-1            | <12.7   | <0.68                       | <1.1       | 2.4 J               | <5.1                  | <0.70               | <0.48                     |
| MW-2            | 148 J   | <6.8                        | <11.0      | 34.0 J              | <5.1                  | <7.0                | <4.8                      |
| MW-3            | <12.7   | 2.5 J                       | <1.1       | 63.8                | 0.69 J                | <0.70               | <0.48                     |
| MW-3-FD         | <2.5  | 2.5                         | 0.34 J     | 66.5                | 0.91 J                | 0.38 J              | 0.31 J                    |
| Sample Location | Methylene Chloride  | 4-Methyl-2-Pentanone (MIBK) | PCE        | 1,1,2-TCA           | TCE                   | 1,3,5-TMB           |                           |
|                 | EPA MCL   |                             |            |                     |                       |                     |                           |
|                 | NE  | NE                          | 5          | NE                  | 5                     | NE                  |                           |
|                 | MRBCA LDTL (All Soil Types, All Pathways, DWG)  |                             |            |                     |                       |                     |                           |
|                 | 0.005   | NE                          | 5          | 5                   | 5                     | 7.05                |                           |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                             |            |                     |                       |                     |                           |
|                 | 68.3  | NE                          | 928        | 19,400              | 928                   | 19,400              |                           |
| MW-1            | 10  | 4.2 J+                      | 83.5       | <0.71               | 22                    | <0.45               |                           |
| MW-2            | 96.7  | <36.8                       | 7,760      | 1,060               | 349                   | <4.5                |                           |
| MW-3            | 10.3 J  | <3.7                        | 539        | 18.1 J              | 138                   | <0.45               |                           |
| MW-3-FD         | >0.39 J   | <0.74                       | 505        | 0.17 J              | 151                   | 0.42 J              |                           |

Notes:

All values are in micrograms per liter (µg/L).

**Bold** font indicates the concentration exceeds the reporting limit.  
*Italic* font indicates the concentration exceeds the MCL and/or LDTL.  
**Red** text indicates the concentration exceeds the RBTL.

|       |  |
|-------|--|
| EPA   | U.S. Environmental Protection Agency   |
| DCE   | Dichloroethene   |
| DWG   | Protection for domestic groundwater use pathway  |
| FD    | Field duplicate  |
| J     | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| J+    | Estimated, possibly biased high  |
| LDTL  | Lowest Default Target Level  |
| MCL   | Maximum Contaminant Level  |
| MRBCA | Missouri Risk-based Corrective Action  |
| MW    | Monitoring well  |
| NE    | Not established  |
| PCE   | Tetrachloroethene  |
| RBTL  | Risk-based Target Level  |
| TCE   | Trichloroethene  |
| TCA   | Trichloroethane  |
| TMB   | Trimethylbenzene   |
| VOC   | Volatile organic compound  |

QUARTER 3, JULY 2022

DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | Benzene   | <i>cis</i> -1,2-DCE | <i>trans</i> -1,2-DCE | Cumene | PCE   | TCE    |
|-----------------|---|---------------------|-----------------------|--------|-------|--------|
|                 | EPA MCL   |                     |                       |        |       |        |
|                 | 5   | 70                  | 100                   | NE     | 5     | 5      |
|                 | MRBCA LDTL (All Soil Types, All Pathways, DWG)  |                     |                       |        |       |        |
|                 | 5   | 70                  | 100                   | 330    | 5     | 5      |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                     |                       |        |       |        |
|                 | 2,880   | 19,400              | 17,800                | 10,600 | 928   | 4,490  |
| MW-1            | <0.14   | 1.9                 | 0.12 J                | <0.097 | 61.9  | 17.7   |
| MW-2            | <13.6   | 45.9 J              | <10.2                 | <9.7   | 7,670 | 123    |
| MW-2-FD         | <13.6   | <12.9               | <10.2                 | <9.7   | 8,290 | 86.8 J |
| MW-3            | 3.2 J   | 107                 | 1.4 J                 | 1.3 J  | 528   | 198    |

Notes:

All values are in micrograms per liter (µg/L).

**Bold** font indicates the concentration exceeds the reporting limit.  
*Italic* font indicates the concentration exceeds the MCL and/or LDTL.  
**Red** text indicates the concentration exceeds the RBTL.

|       |  |
|-------|--|
| EPA   | U.S. Environmental Protection Agency   |
| DCE   | Dichloroethene   |
| DWG   | Protection for domestic groundwater use pathway  |
| FD    | Field duplicate  |
| J     | Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit |
| LDTL  | Lowest Default Target Level  |
| MCL   | Maximum Contaminant Level  |
| MRBCA | Missouri Risk-based Corrective Action  |
| MW    | Monitoring well  |
| NE    | Not established  |
| PCE   | Tetrachloroethene  |
| RBTL  | Risk-based Target Level  |
| TCE   | Trichloroethene  |
| VOC   | Volatile organic compound  |



QUARTER 3, JULY 2022

DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES, QUARTER 3  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | 1,1-DCE  | 1,2,4-TMB            | 1,3,5-TMB     | 2-Butanone<br>(Methyl Ethyl Ketone) | 2-Propanol    | 4-Ethyltoluene | 4-Methyl-2-pentanone | Acetone     | Benzene    |
|-----------------|--|----------------------|---------------|-------------------------------------|---------------|----------------|----------------------|-------------|------------|
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Soil Vapor, Indoor Inhalation, Clayey) |                      |               |                                     |               |                |                      |             |            |
|                 | 14,500,000   | 521,000              | 521,000       | 352,000,000                         | NE            | NE             | NE                   | 159,000,000 | 618,000    |
| SG-1-(4.5-5)    | <0.28  | 26.9                 | 7.4           | 44.2                                | 16.4          | 8.5            | 7.2                  | 576         | 5.6        |
| SG-1-(15.5-16)  | 0.37 J   | 14.7                 | 4.7           | 51.0                                | 7.4           | 5.3            | 4.3 J                | 334         | 21.6       |
| SG-2-(4.5-5)    | <0.21  | 4.6                  | 2.6           | 43.3                                | 8.7           | 2.3 J          | 1.8 J                | 157         | 11.2 J+    |
| SG-2-(23.5-24)  | 11.9   | 7.1                  | 2.8           | 90.8                                | 3.9 J         | 4.3            | 5.2 J                | 162         | 41.7       |
| SG-3-(4.5-5)    | <0.21  | 9.3                  | 4.4           | 34.2                                | 13.4          | 3.8            | 1.9 J                | 456         | 12.9       |
| SG-3-(21.5-22)  | 19.6   | 15.9                 | 5.4           | 149                                 | 6.7           | 6.0            | 5.4 J                | 416         | 30.5       |
| SG-4-(7.5-8)    | <7.4   | 24.0 J               | <13.0         | <20.8                               | <22.8         | <21.1          | <14.3                | 385         | <5.1       |
| SG-4-(11.5-12)  | 5.1  | 11.6                 | 3.7           | 9.2                                 | 6.4           | 6.5            | 2.2 J                | 234         | 5.8        |
| SG-5-(4.5-5)    | <0.20  | 25.1                 | 7.0           | 60.5                                | 11.6          | 7.3            | 1.9 J                | 5.0         | 3.2        |
| SG-5-(16.5-17)  | 0.63 J   | 15.8                 | 5.2           | 64.0                                | 5.6           | 5.8            | 3.2 J                | 302         | 18.0       |
| SG-6-(4.5-5)    | <0.41  | 51.2                 | 14.4          | 27.6                                | 24.7          | 12.6           | 2.6 J                | 645         | 4.1        |
| SG-6-(22.5-23)  | <0.27  | 16.4                 | 6.6           | 99.9                                | 5.4           | 6.3            | <0.52                | 339         | 15.2       |
| SG-7-(2-2.5)    | <0.19  | 15.6                 | 5.0           | 40.9                                | 45.2          | 4.8            | <0.45                | 723         | 57.9       |
| SG-7-(16-16.5)  | <6.4   | <16.5                | <13.5         | <21.6                               | <23.7         | <21.9          | <14.9                | 227 J       | 98.4       |
| SG-8-(4.5-5)    | <6.0   | 29.1 J               | <12.5         | <20.1                               | <22.0         | <20.4          | <13.9                | 592         | 41.4       |
| SG-8-(19.5-20)  | 17.3   | 41.1                 | 17.3          | <0.78                               | 13.0          | 16.3           | <0.54                | 381         | 12,800     |
| Sample Location | Carbon Disulfide   | Carbon Tetrachloride | Chloromethane | Cis-1,2-DCE                         | Trans-1,2-DCE | Cyclohexane    | Ethylbenzene         | n-Heptane   | n-Hexane   |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Soil Vapor, Indoor Inhalation, Clayey) |                      |               |                                     |               |                |                      |             |            |
|                 | 43,900,000   | 239,000              | 14,100,000    | 3,100,000                           | 6,450,000     | NE             | 88,200,000           | 22,800,000  | 22,800,000 |
| SG-1-(4.5-5)    | 3.9  | <0.47                | 2.3           | <0.33                               | 1.8           | 4.8            | 12.9                 | <0.30       | 13.6       |
| SG-1-(15.5-16)  | 36.5   | <0.47                | 3.8           | <0.33                               | 0.39 J        | 9.0            | 12.7                 | 24.4        | 34.2       |
| SG-2-(4.5-5)    | 11.3   | <0.43                | 0.60 J        | 49.7 J+                             | 2.2           | 37.3 J+        | 3.0                  | 94.1        | 47.6 J+    |
| SG-2-(23.5-24)  | 29.6   | <0.47                | 2.7           | 33.2 J+                             | 2.5           | 23.0           | 8.8                  | <0.30       | 53.6       |
| SG-3-(4.5-5)    | 48.3   | <0.42                | 0.83          | 71.6                                | 10.6          | 56.9           | 4.7                  | 66.3        | 53.6       |
| SG-3-(21.5-22)  | 64.5   | <0.49                | 2.4           | 1,110                               | 36.1          | <0.39          | 11.5                 | <0.32       | 90.3       |
| SG-4-(7.5-8)    | <5.8   | <12.5                | <3.8          | 48.5                                | <7.5          | <9.9           | <13.8                | <8.1        | <8.5       |
| SG-4-(11.5-12)  | 3.2  | <0.43                | 0.95          | 526                                 | 2.2           | 1.8 J          | 7.4                  | <0.28       | 4.5        |
| SG-5-(4.5-5)    | 1.6  | <0.41                | 0.31 J        | 0.42 J                              | <0.25         | 4.5            | 9.4                  | 6.9         | 4.8        |
| SG-5-(16.5-17)  | 11.7   | <0.43                | 1.1           | 7.6                                 | <0.26         | 20.4           | 10.5                 | <0.28       | 27.6       |
| SG-6-(4.5-5)    | 1.2 J  | <0.83                | 1.1 J         | <0.58                               | <0.50         | 2.3 J          | 19.2                 | 4.3         | 3.5        |
| SG-6-(22.5-23)  | 10.7   | <0.45                | 1.8           | 424                                 | 3.8           | 443            | 10.1                 | 235         | 97.1       |
| SG-7-(2-2.5)    | 16.7   | 0.51 J               | 1.2           | 8.5                                 | 0.65 J        | 52.5           | 5.4                  | 26.6        | 39.7       |
| SG-7-(16-16.5)  | 20.5 J   | <13.0                | <4.0          | 590                                 | <7.8          | 64.5 J         | <14.4                | 55.6        | 76.1       |
| SG-8-(4.5-5)    | <5.6   | <12.1                | 40.0          | <8.4                                | <7.3          | <9.5           | 14.4 J               | 20.4 J      | 24.6 J     |
| SG-8-(19.5-20)  | 9.8  | <0.47                | 4.6           | 2,300                               | 17.6          | 426 J          | 105                  | 458 J       | 816 J      |

QUARTER 3, JULY 2022

DETECTED VOC RESULTS FROM SOIL-GAS SAMPLES, QUARTER 3  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | m,p-Xylene   | o-Xylene  | Propylene | Styrene    | PCE     | Tetrahydrofuran | Toluene     | TCE       | Vinyl Chloride |
|-----------------|--|-----------|-----------|------------|---------|-----------------|-------------|-----------|----------------|
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Soil Vapor, Indoor Inhalation, Clayey) |           |           |            |         |                 |             |           |                |
|                 | 9,450,000  | 9,450,000 | NE        | 91,700,000 | 648,000 | 1,430,000       | 367,000,000 | 1,770,000 | 300,000        |
| SG-1-(4.5-5)    | 34.3   | 13.4      | 26.1      | 3.3        | 253     | 3.5             | 74.1        | 0.61 J    | <0.15          |
| SG-1-(15.5-16)  | 27.6   | 11.2      | 567 J     | 3.8        | 2.8     | 2.5             | 132         | 0.73 J    | 0.45           |
| SG-2-(4.5-5)    | 8.5  | 3.8       | 67.9      | 4.3        | 127,000 | <0.28           | 16.2        | 4,220     | <0.13          |
| SG-2-(23.5-24)  | 18.7   | 7.7       | 419 J     | 4.4        | 97,800  | <0.30           | 87.5        | 913       | 1.8            |
| SG-3-(4.5-5)    | 13.0   | 6.1       | 71.8      | 1.6        | 3,060   | <0.27           | 22.0        | 186       | <0.13          |
| SG-3-(21.5-22)  | 26.8   | 10.7      | 628       | 3.4        | 11,500  | <0.32           | 83.4        | 6,600     | 19.2           |
| SG-4-(7.5-8)    | 46.3 J   | 16.7 J    | 30.1 J    | <17.2      | 1,260   | <8.0            | 136         | 1,070     | <3.9           |
| SG-4-(11.5-12)  | 19.8   | 7.7       | 25.0      | 3.3        | 15,100  | <0.28           | 80.0        | 12,200    | 2.5            |
| SG-5-(4.5-5)    | 26.3   | 10.9      | 38.2      | 2.3        | 2,900   | 2.5             | 36.9        | 6.7       | <0.13          |
| SG-5-(16.5-17)  | 28.0   | 11.5      | 215       | 4.0        | 1,700   | <0.28           | 96.6        | 103       | 0.22 J         |
| SG-6-(4.5-5)    | 70.1   | 27.3      | 40.6      | 4.5        | 287     | 4.5             | 123         | 3.4       | <0.26          |
| SG-6-(22.5-23)  | 24.2   | 9.8       | 313       | 3.7        | 3,010   | <0.29           | 59.8        | 831       | 2.7            |
| SG-7-(2-2.5)    | 15.8   | 5.8       | 66.1      | 5.1        | 1,280   | 3.8             | 25.2        | 99.0      | <0.12          |
| SG-7-(16-16.5)  | <29.9  | <12.6     | 104       | <17.9      | 32,800  | 21.0 J          | 94.2        | 4,540     | <4.0           |
| SG-8-(4.5-5)    | 48.1 J   | 19.6 J    | 110       | <16.6      | 1,560   | <7.8            | 118         | 85.8      | <3.7           |
| SG-8-(19.5-20)  | 90.1   | 9.1       | 133 J     | 2.9        | 19,400  | <0.30           | 95.1        | 16,700    | 6.2            |

Notes:

All values are in micrograms per cubic meter (µg/m³).

**Bold** font indicates concentration exceeds the reporting limit.

- DCEDichloroethene
- JEstimated concentration above the method detection limit and below the reporting limit
- MRBCAMissouri Risk-based Corrective Action
- NENot established
- PCETetrachloroethene
- RBTLRisk-based Target Level
- SGSoil gas
- TCETrichloroethene
- TMBTrimethylbenzene

QUARTER 4, DECEMBER 2022

DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | Benzene   | <i>cis</i> -1,2-DCE | <i>trans</i> -1,2-DCE | Cumene | PCE   | TCE    |
|-----------------|---|---------------------|-----------------------|--------|-------|--------|
|                 | EPA MCL   |                     |                       |        |       |        |
|                 | 5   | 70                  | 100                   | NE     | 5     | 5      |
|                 | MRBCA LDTL (All Soil Types, All Pathways)   |                     |                       |        |       |        |
|                 | 5   | 70                  | 100                   | 330    | 5     | 5      |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                     |                       |        |       |        |
|                 | 2,880   | 19,400              | 17,800                | 10,600 | 928   | 4,490  |
| MW-1            | <0.14   | 1.7                 | <0.10                 | <0.097 | 28.9  | 8.9    |
| MW-2            | <13.6*  | <12.9               | <10.2                 | <9.7   | 6,170 | 68.6 J |
| MW-3            | 2.9 J   | 102                 | 1.2 J                 | 1.6 J  | 508   | 181    |
| MW-3-DUP        | 3.1 J   | 101                 | 1.2 J                 | 1.5 J  | 530   | 182    |

Notes:

All values are in micrograms per liter (µg/L).

**Bold** font indicates the concentration exceeds the MCL and/or LDTL.

**Red** text indicates the concentration exceeds the RBTL.

\*Reporting limit is greater than EPA Action Level.

- EPAU.S. Environmental Protection Agency
- DCEDichloroethene
- DUPField duplicate
- JEstimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- LDTLLowest Default Target Level—regarding these analytes, all linked to protection for domestic groundwater use pathway
- MCLMaximum Contaminant Level (EPA 2022)
- MRBCAMissouri Risk-based Corrective Action (Missouri Department of Natural Resources 2006)
- MWMonitoring well
- NENot established
- PCETetrachloroethene
- RBTLRisk-based Target Level
- TCETrichloroethene
- VOCVolatile organic compound

QUARTER 5, MARCH 2023

DETECTED VOC RESULTS FROM GROUNDWATER SAMPLES  
31<sup>st</sup> & PROSPECT DEVELOPMENT SITE

| Sample Location | Benzene   | <i>cis</i> -1,2-DCE | <i>trans</i> -1,2-DCE | Cumene | PCE   | TCE    |
|-----------------|---|---------------------|-----------------------|--------|-------|--------|
|                 | EPA MCL   |                     |                       |        |       |        |
|                 | 5   | 70                  | 100                   | NE     | 5     | 5      |
|                 | MRBCA LDTL (All Soil Types, All Pathways)   |                     |                       |        |       |        |
|                 | 5   | 70                  | 100                   | 330    | 5     | 5      |
|                 | MRBCA RBTL (Tier 1, Residential Land Use, Groundwater, Indoor Inhalation of Vapor Encroachment, Clayey) |                     |                       |        |       |        |
|                 | 2,880   | 19,400              | 17,800                | 10,600 | 928   | 4,490  |
| MW-1            | <0.14   | 1.7                 | <0.10                 | <0.097 | 28.9  | 8.9    |
| MW-2            | <13.6*  | <12.9               | <10.2                 | <9.7   | 6,170 | 68.6 J |
| MW-3            | 2.9 J   | 102                 | 1.2 J                 | 1.6 J  | 508   | 181    |
| MW-3-DUP        | 3.1 J   | 101                 | 1.2 J                 | 1.5 J  | 530   | 182    |

Notes:

All values are in micrograms per liter (µg/L).

**Bold** font indicates the concentration exceeds the MCL and/or LDTL.

**Red** text indicates the concentration exceeds the RBTL.

\*Reporting limit is greater than EPA Action Level.

- EPAU.S. Environmental Protection Agency
- DCEDichloroethene
- DUPField duplicate
- JEstimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- LDTLLowest Default Target Level—regarding these analytes, all linked to protection for domestic groundwater use pathway
- MCLMaximum Contaminant Level (EPA 2022)
- MRBCAMissouri Risk-based Corrective Action (Missouri Department of Natural Resources 2006)
- MWMonitoring well
- NENot established
- PCETetrachloroethene
- RBTLRisk-based Target Level
- TCETrichloroethene
- VOCVolatile organic compound

**APPENDIX C**

**LOGBOOK**

Wednesday June 21st

90% sunny

AJ Paige + Fran Green arrive on  
1000 Site

MW1 - DTW = 13.05 ft

1045 total depth = 21.49

purge vol = 4.12 gal

DUPLICATE

PH - 6.75 temperature 27.2°C

MW2 - DTW 14.70 ft

1115 total depth 24.36

purge vol = 4.52 gal

PH 7.21 temperature 23.7°C

MW3

1130

DTW = 13.92

total 20.88

purge vol = 3.4 gal

PH 7.05, 6.95

Temp 24.7, 26.5

Quality meter only read pH + temp  
1200: Depart from site.

**APPENDIX D**

**ANALYTICAL DATA PACKAGES AND DATA VALIDATION REPORTS**

June 27, 2023

Emily Fisher  
TETRA TECH EMI  
415 Oak  
Kansas City, MO 64106

RE: Project: 31ST & PROSPECT  
Pace Project No.: 60431595

Dear Emily Fisher:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jamie Church  
jamie.church@pacelabs.com  
314-838-7223  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

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### **Pace Analytical Services Kansas**

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 88-00679

Illinois Certification #: 2000302023-5

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-22-16

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 31ST & PROSPECT

Pace Project No.: 60431595

| Lab ID      | Sample ID   | Matrix | Date Collected | Date Received  |
|-------------|-------------|--------|----------------|----------------|
| 60431595001 | MW1         | Water  | 06/21/23 10:45 | 06/21/23 15:28 |
| 60431595002 | MW2         | Water  | 06/21/23 11:15 | 06/21/23 15:28 |
| 60431595003 | MW3         | Water  | 06/21/23 11:30 | 06/21/23 15:28 |
| 60431595004 | DUP         | Water  | 06/21/23 10:45 | 06/21/23 15:28 |
| 60431595005 | FIELD BLANK | Water  | 06/21/23 11:45 | 06/21/23 15:28 |
| 60431595006 | TRIP BLANK  | Water  | 06/21/23 12:00 | 06/21/23 15:28 |

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## SAMPLE ANALYTE COUNT

Project: 31ST & PROSPECT

Pace Project No.: 60431595

| Lab ID      | Sample ID   | Method         | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|----------------|----------|-------------------|------------|
| 60431595001 | MW1         | EPA 5030B/8260 | PGH      | 69                | PASI-K     |
| 60431595002 | MW2         | EPA 5030B/8260 | PGH      | 69                | PASI-K     |
| 60431595003 | MW3         | EPA 5030B/8260 | HM1, PGH | 69                | PASI-K     |
| 60431595004 | DUP         | EPA 5030B/8260 | PGH      | 69                | PASI-K     |
| 60431595005 | FIELD BLANK | EPA 5030B/8260 | PGH      | 69                | PASI-K     |
| 60431595006 | TRIP BLANK  | EPA 5030B/8260 | PGH      | 69                | PASI-K     |

PASI-K = Pace Analytical Services - Kansas City

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

Sample: MW1 Lab ID: 60431595001 Collected: 06/21/23 10:45 Received: 06/21/23 15:28 Matrix: Water

| Parameters                             | Results | Units | PQL  | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|-------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>                        |         |       |      |       |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260      |         |       |      |       |    |          |                |            |      |
| Pace Analytical Services - Kansas City |         |       |      |       |    |          |                |            |      |
| Acetone                                | <2.5    | ug/L  | 10.0 | 2.5   | 1  |          | 06/22/23 21:12 | 67-64-1    |      |
| Benzene                                | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:12 | 71-43-2    |      |
| Bromobenzene                           | <0.088  | ug/L  | 1.0  | 0.088 | 1  |          | 06/22/23 21:12 | 108-86-1   |      |
| Bromochloromethane                     | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:12 | 74-97-5    |      |
| Bromodichloromethane                   | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 21:12 | 75-27-4    |      |
| Bromoform                              | <0.68   | ug/L  | 1.0  | 0.68  | 1  |          | 06/22/23 21:12 | 75-25-2    |      |
| Bromomethane                           | <0.46   | ug/L  | 5.0  | 0.46  | 1  |          | 06/22/23 21:12 | 74-83-9    |      |
| 2-Butanone (MEK)                       | <0.98   | ug/L  | 10.0 | 0.98  | 1  |          | 06/22/23 21:12 | 78-93-3    |      |
| n-Butylbenzene                         | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 21:12 | 104-51-8   |      |
| sec-Butylbenzene                       | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:12 | 135-98-8   |      |
| tert-Butylbenzene                      | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:12 | 98-06-6    |      |
| Carbon disulfide                       | <0.98   | ug/L  | 5.0  | 0.98  | 1  |          | 06/22/23 21:12 | 75-15-0    |      |
| Carbon tetrachloride                   | <0.17   | ug/L  | 1.0  | 0.17  | 1  |          | 06/22/23 21:12 | 56-23-5    |      |
| Chlorobenzene                          | <0.089  | ug/L  | 1.0  | 0.089 | 1  |          | 06/22/23 21:12 | 108-90-7   |      |
| Chloroethane                           | <0.37   | ug/L  | 1.0  | 0.37  | 1  |          | 06/22/23 21:12 | 75-00-3    |      |
| Chloroform                             | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:12 | 67-66-3    |      |
| Chloromethane                          | <0.28   | ug/L  | 1.0  | 0.28  | 1  |          | 06/22/23 21:12 | 74-87-3    |      |
| 2-Chlorotoluene                        | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:12 | 95-49-8    |      |
| 4-Chlorotoluene                        | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 21:12 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane            | <0.78   | ug/L  | 2.5  | 0.78  | 1  |          | 06/22/23 21:12 | 96-12-8    |      |
| Dibromochloromethane                   | <0.30   | ug/L  | 1.0  | 0.30  | 1  |          | 06/22/23 21:12 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:12 | 106-93-4   |      |
| Dibromomethane                         | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:12 | 74-95-3    |      |
| 1,2-Dichlorobenzene                    | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:12 | 95-50-1    |      |
| 1,3-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:12 | 541-73-1   |      |
| 1,4-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:12 | 106-46-7   |      |
| Dichlorodifluoromethane                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:12 | 75-71-8    |      |
| 1,1-Dichloroethane                     | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:12 | 75-34-3    |      |
| 1,2-Dichloroethane                     | <0.21   | ug/L  | 1.0  | 0.21  | 1  |          | 06/22/23 21:12 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)             | 2.5     | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:12 | 540-59-0   |      |
| 1,1-Dichloroethene                     | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:12 | 75-35-4    |      |
| cis-1,2-Dichloroethene                 | 2.5     | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:12 | 156-59-2   |      |
| trans-1,2-Dichloroethene               | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 21:12 | 156-60-5   |      |
| 1,2-Dichloropropane                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:12 | 78-87-5    |      |
| 1,3-Dichloropropane                    | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 21:12 | 142-28-9   |      |
| 2,2-Dichloropropane                    | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 21:12 | 594-20-7   |      |
| 1,1-Dichloropropene                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:12 | 563-58-6   |      |
| cis-1,3-Dichloropropene                | <0.078  | ug/L  | 1.0  | 0.078 | 1  |          | 06/22/23 21:12 | 10061-01-5 |      |
| trans-1,3-Dichloropropene              | <0.18   | ug/L  | 1.0  | 0.18  | 1  |          | 06/22/23 21:12 | 10061-02-6 |      |
| Ethylbenzene                           | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:12 | 100-41-4   |      |
| Hexachloro-1,3-butadiene               | <0.42   | ug/L  | 1.0  | 0.42  | 1  |          | 06/22/23 21:12 | 87-68-3    |      |
| 2-Hexanone                             | <1.1    | ug/L  | 10.0 | 1.1   | 1  |          | 06/22/23 21:12 | 591-78-6   |      |
| Isopropylbenzene (Cumene)              | <0.097  | ug/L  | 1.0  | 0.097 | 1  |          | 06/22/23 21:12 | 98-82-8    |      |
| p-Isopropyltoluene                     | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:12 | 99-87-6    |      |
| Methylene Chloride                     | <0.39   | ug/L  | 1.0  | 0.39  | 1  |          | 06/22/23 21:12 | 75-09-2    |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

Sample: MW1 Lab ID: 60431595001 Collected: 06/21/23 10:45 Received: 06/21/23 15:28 Matrix: Water

| Parameters                             | Results | Units | PQL    | MDL   | DF | Prepared | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------|----------------|-----------|------|
| <b>8260 MSV</b>                        |         |       |        |       |    |          |                |           |      |
| Analytical Method: EPA 5030B/8260      |         |       |        |       |    |          |                |           |      |
| Pace Analytical Services - Kansas City |         |       |        |       |    |          |                |           |      |
| 4-Methyl-2-pentanone (MIBK)            | <0.74   | ug/L  | 10.0   | 0.74  | 1  |          | 06/22/23 21:12 | 108-10-1  |      |
| Methyl-tert-butyl ether                | <0.13   | ug/L  | 1.0    | 0.13  | 1  |          | 06/22/23 21:12 | 1634-04-4 |      |
| Naphthalene                            | <0.82   | ug/L  | 10.0   | 0.82  | 1  |          | 06/22/23 21:12 | 91-20-3   |      |
| n-Propylbenzene                        | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 21:12 | 103-65-1  |      |
| Styrene                                | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 21:12 | 100-42-5  | L1   |
| 1,1,1,2-Tetrachloroethane              | <0.084  | ug/L  | 1.0    | 0.084 | 1  |          | 06/22/23 21:12 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane              | <0.15   | ug/L  | 1.0    | 0.15  | 1  |          | 06/22/23 21:12 | 79-34-5   |      |
| Tetrachloroethene                      | 44.8    | ug/L  | 1.0    | 0.33  | 1  |          | 06/22/23 21:12 | 127-18-4  |      |
| Toluene                                | <0.25   | ug/L  | 1.0    | 0.25  | 1  |          | 06/22/23 21:12 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene                 | <0.93   | ug/L  | 1.0    | 0.93  | 1  |          | 06/22/23 21:12 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene                 | <0.73   | ug/L  | 1.0    | 0.73  | 1  |          | 06/22/23 21:12 | 120-82-1  |      |
| 1,1,1-Trichloroethane                  | <0.11   | ug/L  | 1.0    | 0.11  | 1  |          | 06/22/23 21:12 | 71-55-6   |      |
| 1,1,2-Trichloroethane                  | <0.14   | ug/L  | 1.0    | 0.14  | 1  |          | 06/22/23 21:12 | 79-00-5   |      |
| Trichloroethene                        | 12.2    | ug/L  | 1.0    | 0.21  | 1  |          | 06/22/23 21:12 | 79-01-6   |      |
| Trichlorofluoromethane                 | <0.16   | ug/L  | 1.0    | 0.16  | 1  |          | 06/22/23 21:12 | 75-69-4   |      |
| 1,2,3-Trichloropropane                 | <0.41   | ug/L  | 2.5    | 0.41  | 1  |          | 06/22/23 21:12 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene                 | <0.32   | ug/L  | 1.0    | 0.32  | 1  |          | 06/22/23 21:12 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene                 | <0.090  | ug/L  | 1.0    | 0.090 | 1  |          | 06/22/23 21:12 | 108-67-8  |      |
| Vinyl chloride                         | <0.17   | ug/L  | 1.0    | 0.17  | 1  |          | 06/22/23 21:12 | 75-01-4   |      |
| Xylene (Total)                         | <0.28   | ug/L  | 3.0    | 0.28  | 1  |          | 06/22/23 21:12 | 1330-20-7 |      |
| <b>Surrogates</b>                      |         |       |        |       |    |          |                |           |      |
| 4-Bromofluorobenzene (S)               | 99      | %     | 80-120 |       | 1  |          | 06/22/23 21:12 | 460-00-4  |      |
| 1,2-Dichlorobenzene-d4 (S)             | 99      | %     | 80-120 |       | 1  |          | 06/22/23 21:12 | 2199-69-1 |      |
| Toluene-d8 (S)                         | 103     | %     | 80-120 |       | 1  |          | 06/22/23 21:12 | 2037-26-5 |      |
| Preservation pH                        | 1.0     |       | 0.10   |       | 1  |          | 06/22/23 21:12 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

Sample: MW2 Lab ID: 60431595002 Collected: 06/21/23 11:15 Received: 06/21/23 15:28 Matrix: Water

| Parameters                             | Results | Units | PQL  | MDL  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>                        |         |       |      |      |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260      |         |       |      |      |    |          |                |            |      |
| Pace Analytical Services - Kansas City |         |       |      |      |    |          |                |            |      |
| Acetone                                | <127    | ug/L  | 500  | 127  | 50 |          | 06/22/23 21:56 | 67-64-1    |      |
| Benzene                                | <6.8    | ug/L  | 50.0 | 6.8  | 50 |          | 06/22/23 21:56 | 71-43-2    |      |
| Bromobenzene                           | <4.4    | ug/L  | 50.0 | 4.4  | 50 |          | 06/22/23 21:56 | 108-86-1   |      |
| Bromochloromethane                     | <10.1   | ug/L  | 50.0 | 10.1 | 50 |          | 06/22/23 21:56 | 74-97-5    |      |
| Bromodichloromethane                   | <7.8    | ug/L  | 50.0 | 7.8  | 50 |          | 06/22/23 21:56 | 75-27-4    |      |
| Bromoform                              | <33.8   | ug/L  | 50.0 | 33.8 | 50 |          | 06/22/23 21:56 | 75-25-2    |      |
| Bromomethane                           | <23.0   | ug/L  | 250  | 23.0 | 50 |          | 06/22/23 21:56 | 74-83-9    |      |
| 2-Butanone (MEK)                       | <48.8   | ug/L  | 500  | 48.8 | 50 |          | 06/22/23 21:56 | 78-93-3    |      |
| n-Butylbenzene                         | <7.6    | ug/L  | 50.0 | 7.6  | 50 |          | 06/22/23 21:56 | 104-51-8   |      |
| sec-Butylbenzene                       | <5.5    | ug/L  | 50.0 | 5.5  | 50 |          | 06/22/23 21:56 | 135-98-8   |      |
| tert-Butylbenzene                      | <6.0    | ug/L  | 50.0 | 6.0  | 50 |          | 06/22/23 21:56 | 98-06-6    |      |
| Carbon disulfide                       | <48.9   | ug/L  | 250  | 48.9 | 50 |          | 06/22/23 21:56 | 75-15-0    |      |
| Carbon tetrachloride                   | <8.6    | ug/L  | 50.0 | 8.6  | 50 |          | 06/22/23 21:56 | 56-23-5    |      |
| Chlorobenzene                          | <4.4    | ug/L  | 50.0 | 4.4  | 50 |          | 06/22/23 21:56 | 108-90-7   |      |
| Chloroethane                           | <18.7   | ug/L  | 50.0 | 18.7 | 50 |          | 06/22/23 21:56 | 75-00-3    |      |
| Chloroform                             | <11.0   | ug/L  | 50.0 | 11.0 | 50 |          | 06/22/23 21:56 | 67-66-3    |      |
| Chloromethane                          | <14.2   | ug/L  | 50.0 | 14.2 | 50 |          | 06/22/23 21:56 | 74-87-3    |      |
| 2-Chlorotoluene                        | <5.4    | ug/L  | 50.0 | 5.4  | 50 |          | 06/22/23 21:56 | 95-49-8    |      |
| 4-Chlorotoluene                        | <7.4    | ug/L  | 50.0 | 7.4  | 50 |          | 06/22/23 21:56 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane            | <39.0   | ug/L  | 125  | 39.0 | 50 |          | 06/22/23 21:56 | 96-12-8    |      |
| Dibromochloromethane                   | <15.2   | ug/L  | 50.0 | 15.2 | 50 |          | 06/22/23 21:56 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                | <9.8    | ug/L  | 50.0 | 9.8  | 50 |          | 06/22/23 21:56 | 106-93-4   |      |
| Dibromomethane                         | <5.4    | ug/L  | 50.0 | 5.4  | 50 |          | 06/22/23 21:56 | 74-95-3    |      |
| 1,2-Dichlorobenzene                    | <6.2    | ug/L  | 50.0 | 6.2  | 50 |          | 06/22/23 21:56 | 95-50-1    |      |
| 1,3-Dichlorobenzene                    | <6.6    | ug/L  | 50.0 | 6.6  | 50 |          | 06/22/23 21:56 | 541-73-1   |      |
| 1,4-Dichlorobenzene                    | <6.6    | ug/L  | 50.0 | 6.6  | 50 |          | 06/22/23 21:56 | 106-46-7   |      |
| Dichlorodifluoromethane                | <10     | ug/L  | 50.0 | 10   | 50 |          | 06/22/23 21:56 | 75-71-8    |      |
| 1,1-Dichloroethane                     | <6.1    | ug/L  | 50.0 | 6.1  | 50 |          | 06/22/23 21:56 | 75-34-3    |      |
| 1,2-Dichloroethane                     | <10.6   | ug/L  | 50.0 | 10.6 | 50 |          | 06/22/23 21:56 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)             | 13.7J   | ug/L  | 50.0 | 11.1 | 50 |          | 06/22/23 21:56 | 540-59-0   |      |
| 1,1-Dichloroethene                     | <11.0   | ug/L  | 50.0 | 11.0 | 50 |          | 06/22/23 21:56 | 75-35-4    |      |
| cis-1,2-Dichloroethene                 | 13.7J   | ug/L  | 50.0 | 6.4  | 50 |          | 06/22/23 21:56 | 156-59-2   |      |
| trans-1,2-Dichloroethene               | <5.1    | ug/L  | 50.0 | 5.1  | 50 |          | 06/22/23 21:56 | 156-60-5   |      |
| 1,2-Dichloropropane                    | <7.0    | ug/L  | 50.0 | 7.0  | 50 |          | 06/22/23 21:56 | 78-87-5    |      |
| 1,3-Dichloropropane                    | <5.2    | ug/L  | 50.0 | 5.2  | 50 |          | 06/22/23 21:56 | 142-28-9   |      |
| 2,2-Dichloropropane                    | <8.1    | ug/L  | 50.0 | 8.1  | 50 |          | 06/22/23 21:56 | 594-20-7   |      |
| 1,1-Dichloropropene                    | <6.8    | ug/L  | 50.0 | 6.8  | 50 |          | 06/22/23 21:56 | 563-58-6   |      |
| cis-1,3-Dichloropropene                | <3.9    | ug/L  | 50.0 | 3.9  | 50 |          | 06/22/23 21:56 | 10061-01-5 |      |
| trans-1,3-Dichloropropene              | <9.1    | ug/L  | 50.0 | 9.1  | 50 |          | 06/22/23 21:56 | 10061-02-6 |      |
| Ethylbenzene                           | <6.0    | ug/L  | 50.0 | 6.0  | 50 |          | 06/22/23 21:56 | 100-41-4   |      |
| Hexachloro-1,3-butadiene               | <20.8   | ug/L  | 50.0 | 20.8 | 50 |          | 06/22/23 21:56 | 87-68-3    |      |
| 2-Hexanone                             | <55.0   | ug/L  | 500  | 55.0 | 50 |          | 06/22/23 21:56 | 591-78-6   |      |
| Isopropylbenzene (Cumene)              | <4.8    | ug/L  | 50.0 | 4.8  | 50 |          | 06/22/23 21:56 | 98-82-8    |      |
| p-Isopropyltoluene                     | <6.4    | ug/L  | 50.0 | 6.4  | 50 |          | 06/22/23 21:56 | 99-87-6    |      |
| Methylene Chloride                     | 26.8J   | ug/L  | 50.0 | 19.6 | 50 |          | 06/22/23 21:56 | 75-09-2    |      |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

| Sample: MW2                 |         | Lab ID: 60431595002   |        | Collected: 06/21/23 11:15 |    | Received: 06/21/23 15:28 |                | Matrix: Water |      |
|-----------------------------|---------|---|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                  | Results | Units   | PQL    | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Kansas City |        |                           |    |                          |                |               |      |
| 4-Methyl-2-pentanone (MIBK) | <36.8   | ug/L  | 500    | 36.8                      | 50 |                          | 06/22/23 21:56 | 108-10-1      |      |
| Methyl-tert-butyl ether     | <6.4    | ug/L  | 50.0   | 6.4                       | 50 |                          | 06/22/23 21:56 | 1634-04-4     |      |
| Naphthalene                 | <41.1   | ug/L  | 500    | 41.1                      | 50 |                          | 06/22/23 21:56 | 91-20-3       |      |
| n-Propylbenzene             | <6.0    | ug/L  | 50.0   | 6.0                       | 50 |                          | 06/22/23 21:56 | 103-65-1      |      |
| Styrene                     | <6.2    | ug/L  | 50.0   | 6.2                       | 50 |                          | 06/22/23 21:56 | 100-42-5      | L1   |
| 1,1,1,2-Tetrachloroethane   | <4.2    | ug/L  | 50.0   | 4.2                       | 50 |                          | 06/22/23 21:56 | 630-20-6      |      |
| 1,1,2,2-Tetrachloroethane   | <7.7    | ug/L  | 50.0   | 7.7                       | 50 |                          | 06/22/23 21:56 | 79-34-5       |      |
| Tetrachloroethene           | 7240    | ug/L  | 50.0   | 16.5                      | 50 |                          | 06/22/23 21:56 | 127-18-4      |      |
| Toluene                     | <12.6   | ug/L  | 50.0   | 12.6                      | 50 |                          | 06/22/23 21:56 | 108-88-3      |      |
| 1,2,3-Trichlorobenzene      | <46.4   | ug/L  | 50.0   | 46.4                      | 50 |                          | 06/22/23 21:56 | 87-61-6       |      |
| 1,2,4-Trichlorobenzene      | <36.6   | ug/L  | 50.0   | 36.6                      | 50 |                          | 06/22/23 21:56 | 120-82-1      |      |
| 1,1,1-Trichloroethane       | <5.4    | ug/L  | 50.0   | 5.4                       | 50 |                          | 06/22/23 21:56 | 71-55-6       |      |
| 1,1,2-Trichloroethane       | <7.1    | ug/L  | 50.0   | 7.1                       | 50 |                          | 06/22/23 21:56 | 79-00-5       |      |
| Trichloroethene             | 77.5    | ug/L  | 50.0   | 10.5                      | 50 |                          | 06/22/23 21:56 | 79-01-6       |      |
| Trichlorofluoromethane      | <8.2    | ug/L  | 50.0   | 8.2                       | 50 |                          | 06/22/23 21:56 | 75-69-4       |      |
| 1,2,3-Trichloropropane      | <20.4   | ug/L  | 125    | 20.4                      | 50 |                          | 06/22/23 21:56 | 96-18-4       |      |
| 1,2,4-Trimethylbenzene      | <16.2   | ug/L  | 50.0   | 16.2                      | 50 |                          | 06/22/23 21:56 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene      | <4.5    | ug/L  | 50.0   | 4.5                       | 50 |                          | 06/22/23 21:56 | 108-67-8      |      |
| Vinyl chloride              | <8.4    | ug/L  | 50.0   | 8.4                       | 50 |                          | 06/22/23 21:56 | 75-01-4       |      |
| Xylene (Total)              | <14.1   | ug/L  | 150    | 14.1                      | 50 |                          | 06/22/23 21:56 | 1330-20-7     |      |
| <b>Surrogates</b>           |         |   |        |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)    | 98      | %   | 80-120 |                           | 50 |                          | 06/22/23 21:56 | 460-00-4      |      |
| 1,2-Dichlorobenzene-d4 (S)  | 100     | %   | 80-120 |                           | 50 |                          | 06/22/23 21:56 | 2199-69-1     |      |
| Toluene-d8 (S)              | 103     | %   | 80-120 |                           | 50 |                          | 06/22/23 21:56 | 2037-26-5     |      |
| Preservation pH             | 1.0     |   | 0.10   |                           | 50 |                          | 06/22/23 21:56 |               |      |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

Sample: MW3 Lab ID: 60431595003 Collected: 06/21/23 11:30 Received: 06/21/23 15:28 Matrix: Water

| Parameters                             | Results | Units | PQL  | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|-------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>                        |         |       |      |       |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260      |         |       |      |       |    |          |                |            |      |
| Pace Analytical Services - Kansas City |         |       |      |       |    |          |                |            |      |
| Acetone                                | <2.5    | ug/L  | 10.0 | 2.5   | 1  |          | 06/22/23 21:41 | 67-64-1    |      |
| Benzene                                | 0.57J   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:41 | 71-43-2    |      |
| Bromobenzene                           | <0.088  | ug/L  | 1.0  | 0.088 | 1  |          | 06/22/23 21:41 | 108-86-1   |      |
| Bromochloromethane                     | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:41 | 74-97-5    |      |
| Bromodichloromethane                   | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 21:41 | 75-27-4    |      |
| Bromoform                              | <0.68   | ug/L  | 1.0  | 0.68  | 1  |          | 06/22/23 21:41 | 75-25-2    |      |
| Bromomethane                           | <0.46   | ug/L  | 5.0  | 0.46  | 1  |          | 06/22/23 21:41 | 74-83-9    |      |
| 2-Butanone (MEK)                       | <0.98   | ug/L  | 10.0 | 0.98  | 1  |          | 06/22/23 21:41 | 78-93-3    |      |
| n-Butylbenzene                         | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 21:41 | 104-51-8   |      |
| sec-Butylbenzene                       | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:41 | 135-98-8   |      |
| tert-Butylbenzene                      | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:41 | 98-06-6    |      |
| Carbon disulfide                       | <0.98   | ug/L  | 5.0  | 0.98  | 1  |          | 06/22/23 21:41 | 75-15-0    |      |
| Carbon tetrachloride                   | <0.17   | ug/L  | 1.0  | 0.17  | 1  |          | 06/22/23 21:41 | 56-23-5    |      |
| Chlorobenzene                          | <0.089  | ug/L  | 1.0  | 0.089 | 1  |          | 06/22/23 21:41 | 108-90-7   |      |
| Chloroethane                           | <0.37   | ug/L  | 1.0  | 0.37  | 1  |          | 06/22/23 21:41 | 75-00-3    |      |
| Chloroform                             | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:41 | 67-66-3    |      |
| Chloromethane                          | <0.28   | ug/L  | 1.0  | 0.28  | 1  |          | 06/22/23 21:41 | 74-87-3    |      |
| 2-Chlorotoluene                        | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:41 | 95-49-8    |      |
| 4-Chlorotoluene                        | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 21:41 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane            | <0.78   | ug/L  | 2.5  | 0.78  | 1  |          | 06/22/23 21:41 | 96-12-8    |      |
| Dibromochloromethane                   | <0.30   | ug/L  | 1.0  | 0.30  | 1  |          | 06/22/23 21:41 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:41 | 106-93-4   |      |
| Dibromomethane                         | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:41 | 74-95-3    |      |
| 1,2-Dichlorobenzene                    | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:41 | 95-50-1    |      |
| 1,3-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:41 | 541-73-1   |      |
| 1,4-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:41 | 106-46-7   |      |
| Dichlorodifluoromethane                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:41 | 75-71-8    |      |
| 1,1-Dichloroethane                     | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:41 | 75-34-3    |      |
| 1,2-Dichloroethane                     | <0.21   | ug/L  | 1.0  | 0.21  | 1  |          | 06/22/23 21:41 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)             | 72.2    | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:41 | 540-59-0   |      |
| 1,1-Dichloroethene                     | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:41 | 75-35-4    |      |
| cis-1,2-Dichloroethene                 | 71.4    | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:41 | 156-59-2   |      |
| trans-1,2-Dichloroethene               | 0.81J   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 21:41 | 156-60-5   |      |
| 1,2-Dichloropropane                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:41 | 78-87-5    |      |
| 1,3-Dichloropropane                    | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 21:41 | 142-28-9   |      |
| 2,2-Dichloropropane                    | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 21:41 | 594-20-7   |      |
| 1,1-Dichloropropene                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:41 | 563-58-6   |      |
| cis-1,3-Dichloropropene                | <0.078  | ug/L  | 1.0  | 0.078 | 1  |          | 06/22/23 21:41 | 10061-01-5 |      |
| trans-1,3-Dichloropropene              | <0.18   | ug/L  | 1.0  | 0.18  | 1  |          | 06/22/23 21:41 | 10061-02-6 |      |
| Ethylbenzene                           | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:41 | 100-41-4   |      |
| Hexachloro-1,3-butadiene               | <0.42   | ug/L  | 1.0  | 0.42  | 1  |          | 06/22/23 21:41 | 87-68-3    |      |
| 2-Hexanone                             | <1.1    | ug/L  | 10.0 | 1.1   | 1  |          | 06/22/23 21:41 | 591-78-6   |      |
| Isopropylbenzene (Cumene)              | <0.097  | ug/L  | 1.0  | 0.097 | 1  |          | 06/22/23 21:41 | 98-82-8    |      |
| p-Isopropyltoluene                     | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:41 | 99-87-6    |      |
| Methylene Chloride                     | <0.39   | ug/L  | 1.0  | 0.39  | 1  |          | 06/22/23 21:41 | 75-09-2    |      |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

Sample: MW3 Lab ID: 60431595003 Collected: 06/21/23 11:30 Received: 06/21/23 15:28 Matrix: Water

| Parameters                             | Results | Units | PQL    | MDL   | DF | Prepared | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------|----------------|-----------|------|
| <b>8260 MSV</b>                        |         |       |        |       |    |          |                |           |      |
| Analytical Method: EPA 5030B/8260      |         |       |        |       |    |          |                |           |      |
| Pace Analytical Services - Kansas City |         |       |        |       |    |          |                |           |      |
| 4-Methyl-2-pentanone (MIBK)            | <0.74   | ug/L  | 10.0   | 0.74  | 1  |          | 06/22/23 21:41 | 108-10-1  |      |
| Methyl-tert-butyl ether                | <0.13   | ug/L  | 1.0    | 0.13  | 1  |          | 06/22/23 21:41 | 1634-04-4 |      |
| Naphthalene                            | <0.82   | ug/L  | 10.0   | 0.82  | 1  |          | 06/22/23 21:41 | 91-20-3   |      |
| n-Propylbenzene                        | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 21:41 | 103-65-1  |      |
| Styrene                                | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 21:41 | 100-42-5  | L1   |
| 1,1,1,2-Tetrachloroethane              | <0.084  | ug/L  | 1.0    | 0.084 | 1  |          | 06/22/23 21:41 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane              | <0.15   | ug/L  | 1.0    | 0.15  | 1  |          | 06/22/23 21:41 | 79-34-5   |      |
| Tetrachloroethene                      | 187     | ug/L  | 5.0    | 1.6   | 5  |          | 06/26/23 15:05 | 127-18-4  |      |
| Toluene                                | <0.25   | ug/L  | 1.0    | 0.25  | 1  |          | 06/22/23 21:41 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene                 | <0.93   | ug/L  | 1.0    | 0.93  | 1  |          | 06/22/23 21:41 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene                 | <0.73   | ug/L  | 1.0    | 0.73  | 1  |          | 06/22/23 21:41 | 120-82-1  |      |
| 1,1,1-Trichloroethane                  | <0.11   | ug/L  | 1.0    | 0.11  | 1  |          | 06/22/23 21:41 | 71-55-6   |      |
| 1,1,2-Trichloroethane                  | <0.14   | ug/L  | 1.0    | 0.14  | 1  |          | 06/22/23 21:41 | 79-00-5   |      |
| Trichloroethene                        | 111     | ug/L  | 1.0    | 0.21  | 1  |          | 06/22/23 21:41 | 79-01-6   |      |
| Trichlorofluoromethane                 | <0.16   | ug/L  | 1.0    | 0.16  | 1  |          | 06/22/23 21:41 | 75-69-4   |      |
| 1,2,3-Trichloropropane                 | <0.41   | ug/L  | 2.5    | 0.41  | 1  |          | 06/22/23 21:41 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene                 | <0.32   | ug/L  | 1.0    | 0.32  | 1  |          | 06/22/23 21:41 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene                 | <0.090  | ug/L  | 1.0    | 0.090 | 1  |          | 06/22/23 21:41 | 108-67-8  |      |
| Vinyl chloride                         | <0.17   | ug/L  | 1.0    | 0.17  | 1  |          | 06/22/23 21:41 | 75-01-4   |      |
| Xylene (Total)                         | <0.28   | ug/L  | 3.0    | 0.28  | 1  |          | 06/22/23 21:41 | 1330-20-7 |      |
| <b>Surrogates</b>                      |         |       |        |       |    |          |                |           |      |
| 4-Bromofluorobenzene (S)               | 102     | %     | 80-120 |       | 1  |          | 06/22/23 21:41 | 460-00-4  |      |
| 1,2-Dichlorobenzene-d4 (S)             | 100     | %     | 80-120 |       | 1  |          | 06/22/23 21:41 | 2199-69-1 |      |
| Toluene-d8 (S)                         | 104     | %     | 80-120 |       | 1  |          | 06/22/23 21:41 | 2037-26-5 |      |
| Preservation pH                        | 1.0     |       | 0.10   |       | 1  |          | 06/22/23 21:41 |           |      |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

**Sample: DUP**      **Lab ID: 60431595004**      Collected: 06/21/23 10:45      Received: 06/21/23 15:28      Matrix: Water

| Parameters                             | Results | Units | PQL  | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|-------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>                        |         |       |      |       |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260      |         |       |      |       |    |          |                |            |      |
| Pace Analytical Services - Kansas City |         |       |      |       |    |          |                |            |      |
| Acetone                                | <2.5    | ug/L  | 10.0 | 2.5   | 1  |          | 06/22/23 21:27 | 67-64-1    |      |
| Benzene                                | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:27 | 71-43-2    |      |
| Bromobenzene                           | <0.088  | ug/L  | 1.0  | 0.088 | 1  |          | 06/22/23 21:27 | 108-86-1   |      |
| Bromochloromethane                     | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:27 | 74-97-5    |      |
| Bromodichloromethane                   | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 21:27 | 75-27-4    |      |
| Bromoform                              | <0.68   | ug/L  | 1.0  | 0.68  | 1  |          | 06/22/23 21:27 | 75-25-2    |      |
| Bromomethane                           | <0.46   | ug/L  | 5.0  | 0.46  | 1  |          | 06/22/23 21:27 | 74-83-9    |      |
| 2-Butanone (MEK)                       | <0.98   | ug/L  | 10.0 | 0.98  | 1  |          | 06/22/23 21:27 | 78-93-3    |      |
| n-Butylbenzene                         | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 21:27 | 104-51-8   |      |
| sec-Butylbenzene                       | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:27 | 135-98-8   |      |
| tert-Butylbenzene                      | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:27 | 98-06-6    |      |
| Carbon disulfide                       | <0.98   | ug/L  | 5.0  | 0.98  | 1  |          | 06/22/23 21:27 | 75-15-0    |      |
| Carbon tetrachloride                   | <0.17   | ug/L  | 1.0  | 0.17  | 1  |          | 06/22/23 21:27 | 56-23-5    |      |
| Chlorobenzene                          | <0.089  | ug/L  | 1.0  | 0.089 | 1  |          | 06/22/23 21:27 | 108-90-7   |      |
| Chloroethane                           | <0.37   | ug/L  | 1.0  | 0.37  | 1  |          | 06/22/23 21:27 | 75-00-3    |      |
| Chloroform                             | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:27 | 67-66-3    |      |
| Chloromethane                          | <0.28   | ug/L  | 1.0  | 0.28  | 1  |          | 06/22/23 21:27 | 74-87-3    |      |
| 2-Chlorotoluene                        | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:27 | 95-49-8    |      |
| 4-Chlorotoluene                        | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 21:27 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane            | <0.78   | ug/L  | 2.5  | 0.78  | 1  |          | 06/22/23 21:27 | 96-12-8    |      |
| Dibromochloromethane                   | <0.30   | ug/L  | 1.0  | 0.30  | 1  |          | 06/22/23 21:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:27 | 106-93-4   |      |
| Dibromomethane                         | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 21:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene                    | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:27 | 106-46-7   |      |
| Dichlorodifluoromethane                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 21:27 | 75-71-8    |      |
| 1,1-Dichloroethane                     | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:27 | 75-34-3    |      |
| 1,2-Dichloroethane                     | <0.21   | ug/L  | 1.0  | 0.21  | 1  |          | 06/22/23 21:27 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)             | 3.7     | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:27 | 540-59-0   |      |
| 1,1-Dichloroethene                     | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 21:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene                 | 3.7     | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene               | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 21:27 | 156-60-5   |      |
| 1,2-Dichloropropane                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:27 | 78-87-5    |      |
| 1,3-Dichloropropane                    | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 21:27 | 142-28-9   |      |
| 2,2-Dichloropropane                    | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 21:27 | 594-20-7   |      |
| 1,1-Dichloropropene                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 21:27 | 563-58-6   |      |
| cis-1,3-Dichloropropene                | <0.078  | ug/L  | 1.0  | 0.078 | 1  |          | 06/22/23 21:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene              | <0.18   | ug/L  | 1.0  | 0.18  | 1  |          | 06/22/23 21:27 | 10061-02-6 |      |
| Ethylbenzene                           | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 21:27 | 100-41-4   |      |
| Hexachloro-1,3-butadiene               | <0.42   | ug/L  | 1.0  | 0.42  | 1  |          | 06/22/23 21:27 | 87-68-3    |      |
| 2-Hexanone                             | <1.1    | ug/L  | 10.0 | 1.1   | 1  |          | 06/22/23 21:27 | 591-78-6   |      |
| Isopropylbenzene (Cumene)              | <0.097  | ug/L  | 1.0  | 0.097 | 1  |          | 06/22/23 21:27 | 98-82-8    |      |
| p-Isopropyltoluene                     | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 21:27 | 99-87-6    |      |
| Methylene Chloride                     | <0.39   | ug/L  | 1.0  | 0.39  | 1  |          | 06/22/23 21:27 | 75-09-2    |      |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

| Sample: DUP                 |         | Lab ID: 60431595004   |        | Collected: 06/21/23 10:45 |    | Received: 06/21/23 15:28 |                | Matrix: Water |      |
|-----------------------------|---------|---|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                  | Results | Units   | PQL    | MDL                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV</b>             |         | Analytical Method: EPA 5030B/8260<br>Pace Analytical Services - Kansas City |        |                           |    |                          |                |               |      |
| 4-Methyl-2-pentanone (MIBK) | <0.74   | ug/L  | 10.0   | 0.74                      | 1  |                          | 06/22/23 21:27 | 108-10-1      |      |
| Methyl-tert-butyl ether     | <0.13   | ug/L  | 1.0    | 0.13                      | 1  |                          | 06/22/23 21:27 | 1634-04-4     |      |
| Naphthalene                 | <0.82   | ug/L  | 10.0   | 0.82                      | 1  |                          | 06/22/23 21:27 | 91-20-3       |      |
| n-Propylbenzene             | <0.12   | ug/L  | 1.0    | 0.12                      | 1  |                          | 06/22/23 21:27 | 103-65-1      |      |
| Styrene                     | <0.12   | ug/L  | 1.0    | 0.12                      | 1  |                          | 06/22/23 21:27 | 100-42-5      | L1   |
| 1,1,1,2-Tetrachloroethane   | <0.084  | ug/L  | 1.0    | 0.084                     | 1  |                          | 06/22/23 21:27 | 630-20-6      |      |
| 1,1,2,2-Tetrachloroethane   | <0.15   | ug/L  | 1.0    | 0.15                      | 1  |                          | 06/22/23 21:27 | 79-34-5       |      |
| Tetrachloroethene           | 53.3    | ug/L  | 1.0    | 0.33                      | 1  |                          | 06/22/23 21:27 | 127-18-4      |      |
| Toluene                     | <0.25   | ug/L  | 1.0    | 0.25                      | 1  |                          | 06/22/23 21:27 | 108-88-3      |      |
| 1,2,3-Trichlorobenzene      | <0.93   | ug/L  | 1.0    | 0.93                      | 1  |                          | 06/22/23 21:27 | 87-61-6       |      |
| 1,2,4-Trichlorobenzene      | <0.73   | ug/L  | 1.0    | 0.73                      | 1  |                          | 06/22/23 21:27 | 120-82-1      |      |
| 1,1,1-Trichloroethane       | <0.11   | ug/L  | 1.0    | 0.11                      | 1  |                          | 06/22/23 21:27 | 71-55-6       |      |
| 1,1,2-Trichloroethane       | <0.14   | ug/L  | 1.0    | 0.14                      | 1  |                          | 06/22/23 21:27 | 79-00-5       |      |
| Trichloroethene             | 15.5    | ug/L  | 1.0    | 0.21                      | 1  |                          | 06/22/23 21:27 | 79-01-6       |      |
| Trichlorofluoromethane      | <0.16   | ug/L  | 1.0    | 0.16                      | 1  |                          | 06/22/23 21:27 | 75-69-4       |      |
| 1,2,3-Trichloropropane      | <0.41   | ug/L  | 2.5    | 0.41                      | 1  |                          | 06/22/23 21:27 | 96-18-4       |      |
| 1,2,4-Trimethylbenzene      | <0.32   | ug/L  | 1.0    | 0.32                      | 1  |                          | 06/22/23 21:27 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene      | <0.090  | ug/L  | 1.0    | 0.090                     | 1  |                          | 06/22/23 21:27 | 108-67-8      |      |
| Vinyl chloride              | <0.17   | ug/L  | 1.0    | 0.17                      | 1  |                          | 06/22/23 21:27 | 75-01-4       |      |
| Xylene (Total)              | <0.28   | ug/L  | 3.0    | 0.28                      | 1  |                          | 06/22/23 21:27 | 1330-20-7     |      |
| <b>Surrogates</b>           |         |   |        |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)    | 98      | %   | 80-120 |                           | 1  |                          | 06/22/23 21:27 | 460-00-4      |      |
| 1,2-Dichlorobenzene-d4 (S)  | 99      | %   | 80-120 |                           | 1  |                          | 06/22/23 21:27 | 2199-69-1     |      |
| Toluene-d8 (S)              | 104     | %   | 80-120 |                           | 1  |                          | 06/22/23 21:27 | 2037-26-5     |      |
| Preservation pH             | 5.0     |   | 0.10   |                           | 1  |                          | 06/22/23 21:27 |               | pH   |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

**Sample: FIELD BLANK**      **Lab ID: 60431595005**      Collected: 06/21/23 11:45      Received: 06/21/23 15:28      Matrix: Water

| Parameters                             | Results | Units | PQL  | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|-------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>                        |         |       |      |       |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260      |         |       |      |       |    |          |                |            |      |
| Pace Analytical Services - Kansas City |         |       |      |       |    |          |                |            |      |
| Acetone                                | <2.5    | ug/L  | 10.0 | 2.5   | 1  |          | 06/22/23 20:58 | 67-64-1    |      |
| Benzene                                | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 20:58 | 71-43-2    |      |
| Bromobenzene                           | <0.088  | ug/L  | 1.0  | 0.088 | 1  |          | 06/22/23 20:58 | 108-86-1   |      |
| Bromochloromethane                     | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 20:58 | 74-97-5    |      |
| Bromodichloromethane                   | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 20:58 | 75-27-4    |      |
| Bromoform                              | <0.68   | ug/L  | 1.0  | 0.68  | 1  |          | 06/22/23 20:58 | 75-25-2    |      |
| Bromomethane                           | <0.46   | ug/L  | 5.0  | 0.46  | 1  |          | 06/22/23 20:58 | 74-83-9    |      |
| 2-Butanone (MEK)                       | <0.98   | ug/L  | 10.0 | 0.98  | 1  |          | 06/22/23 20:58 | 78-93-3    |      |
| n-Butylbenzene                         | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 20:58 | 104-51-8   |      |
| sec-Butylbenzene                       | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 20:58 | 135-98-8   |      |
| tert-Butylbenzene                      | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:58 | 98-06-6    |      |
| Carbon disulfide                       | <0.98   | ug/L  | 5.0  | 0.98  | 1  |          | 06/22/23 20:58 | 75-15-0    |      |
| Carbon tetrachloride                   | <0.17   | ug/L  | 1.0  | 0.17  | 1  |          | 06/22/23 20:58 | 56-23-5    |      |
| Chlorobenzene                          | <0.089  | ug/L  | 1.0  | 0.089 | 1  |          | 06/22/23 20:58 | 108-90-7   |      |
| Chloroethane                           | <0.37   | ug/L  | 1.0  | 0.37  | 1  |          | 06/22/23 20:58 | 75-00-3    |      |
| Chloroform                             | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 20:58 | 67-66-3    |      |
| Chloromethane                          | <0.28   | ug/L  | 1.0  | 0.28  | 1  |          | 06/22/23 20:58 | 74-87-3    |      |
| 2-Chlorotoluene                        | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 20:58 | 95-49-8    |      |
| 4-Chlorotoluene                        | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 20:58 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane            | <0.78   | ug/L  | 2.5  | 0.78  | 1  |          | 06/22/23 20:58 | 96-12-8    |      |
| Dibromochloromethane                   | <0.30   | ug/L  | 1.0  | 0.30  | 1  |          | 06/22/23 20:58 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 20:58 | 106-93-4   |      |
| Dibromomethane                         | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 20:58 | 74-95-3    |      |
| 1,2-Dichlorobenzene                    | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:58 | 95-50-1    |      |
| 1,3-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:58 | 541-73-1   |      |
| 1,4-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:58 | 106-46-7   |      |
| Dichlorodifluoromethane                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 20:58 | 75-71-8    |      |
| 1,1-Dichloroethane                     | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:58 | 75-34-3    |      |
| 1,2-Dichloroethane                     | <0.21   | ug/L  | 1.0  | 0.21  | 1  |          | 06/22/23 20:58 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)             | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 20:58 | 540-59-0   |      |
| 1,1-Dichloroethene                     | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 20:58 | 75-35-4    |      |
| cis-1,2-Dichloroethene                 | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:58 | 156-59-2   |      |
| trans-1,2-Dichloroethene               | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 20:58 | 156-60-5   |      |
| 1,2-Dichloropropane                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 20:58 | 78-87-5    |      |
| 1,3-Dichloropropane                    | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 20:58 | 142-28-9   |      |
| 2,2-Dichloropropane                    | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 20:58 | 594-20-7   |      |
| 1,1-Dichloropropene                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 20:58 | 563-58-6   |      |
| cis-1,3-Dichloropropene                | <0.078  | ug/L  | 1.0  | 0.078 | 1  |          | 06/22/23 20:58 | 10061-01-5 |      |
| trans-1,3-Dichloropropene              | <0.18   | ug/L  | 1.0  | 0.18  | 1  |          | 06/22/23 20:58 | 10061-02-6 |      |
| Ethylbenzene                           | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:58 | 100-41-4   |      |
| Hexachloro-1,3-butadiene               | <0.42   | ug/L  | 1.0  | 0.42  | 1  |          | 06/22/23 20:58 | 87-68-3    |      |
| 2-Hexanone                             | <1.1    | ug/L  | 10.0 | 1.1   | 1  |          | 06/22/23 20:58 | 591-78-6   |      |
| Isopropylbenzene (Cumene)              | <0.097  | ug/L  | 1.0  | 0.097 | 1  |          | 06/22/23 20:58 | 98-82-8    |      |
| p-Isopropyltoluene                     | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:58 | 99-87-6    |      |
| Methylene Chloride                     | <0.39   | ug/L  | 1.0  | 0.39  | 1  |          | 06/22/23 20:58 | 75-09-2    |      |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

Sample: FIELD BLANK Lab ID: 60431595005 Collected: 06/21/23 11:45 Received: 06/21/23 15:28 Matrix: Water

| Parameters                             | Results | Units | PQL    | MDL   | DF | Prepared | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------|----------------|-----------|------|
| <b>8260 MSV</b>                        |         |       |        |       |    |          |                |           |      |
| Analytical Method: EPA 5030B/8260      |         |       |        |       |    |          |                |           |      |
| Pace Analytical Services - Kansas City |         |       |        |       |    |          |                |           |      |
| 4-Methyl-2-pentanone (MIBK)            | <0.74   | ug/L  | 10.0   | 0.74  | 1  |          | 06/22/23 20:58 | 108-10-1  |      |
| Methyl-tert-butyl ether                | <0.13   | ug/L  | 1.0    | 0.13  | 1  |          | 06/22/23 20:58 | 1634-04-4 |      |
| Naphthalene                            | <0.82   | ug/L  | 10.0   | 0.82  | 1  |          | 06/22/23 20:58 | 91-20-3   |      |
| n-Propylbenzene                        | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 20:58 | 103-65-1  |      |
| Styrene                                | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 20:58 | 100-42-5  | L1   |
| 1,1,1,2-Tetrachloroethane              | <0.084  | ug/L  | 1.0    | 0.084 | 1  |          | 06/22/23 20:58 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane              | <0.15   | ug/L  | 1.0    | 0.15  | 1  |          | 06/22/23 20:58 | 79-34-5   |      |
| Tetrachloroethene                      | <0.33   | ug/L  | 1.0    | 0.33  | 1  |          | 06/22/23 20:58 | 127-18-4  |      |
| Toluene                                | <0.25   | ug/L  | 1.0    | 0.25  | 1  |          | 06/22/23 20:58 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene                 | <0.93   | ug/L  | 1.0    | 0.93  | 1  |          | 06/22/23 20:58 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene                 | <0.73   | ug/L  | 1.0    | 0.73  | 1  |          | 06/22/23 20:58 | 120-82-1  |      |
| 1,1,1-Trichloroethane                  | <0.11   | ug/L  | 1.0    | 0.11  | 1  |          | 06/22/23 20:58 | 71-55-6   |      |
| 1,1,2-Trichloroethane                  | <0.14   | ug/L  | 1.0    | 0.14  | 1  |          | 06/22/23 20:58 | 79-00-5   |      |
| Trichloroethene                        | <0.21   | ug/L  | 1.0    | 0.21  | 1  |          | 06/22/23 20:58 | 79-01-6   |      |
| Trichlorofluoromethane                 | <0.16   | ug/L  | 1.0    | 0.16  | 1  |          | 06/22/23 20:58 | 75-69-4   |      |
| 1,2,3-Trichloropropane                 | <0.41   | ug/L  | 2.5    | 0.41  | 1  |          | 06/22/23 20:58 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene                 | <0.32   | ug/L  | 1.0    | 0.32  | 1  |          | 06/22/23 20:58 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene                 | <0.090  | ug/L  | 1.0    | 0.090 | 1  |          | 06/22/23 20:58 | 108-67-8  |      |
| Vinyl chloride                         | <0.17   | ug/L  | 1.0    | 0.17  | 1  |          | 06/22/23 20:58 | 75-01-4   |      |
| Xylene (Total)                         | <0.28   | ug/L  | 3.0    | 0.28  | 1  |          | 06/22/23 20:58 | 1330-20-7 |      |
| <b>Surrogates</b>                      |         |       |        |       |    |          |                |           |      |
| 4-Bromofluorobenzene (S)               | 97      | %     | 80-120 |       | 1  |          | 06/22/23 20:58 | 460-00-4  |      |
| 1,2-Dichlorobenzene-d4 (S)             | 97      | %     | 80-120 |       | 1  |          | 06/22/23 20:58 | 2199-69-1 |      |
| Toluene-d8 (S)                         | 103     | %     | 80-120 |       | 1  |          | 06/22/23 20:58 | 2037-26-5 |      |
| Preservation pH                        | 1.0     |       | 0.10   |       | 1  |          | 06/22/23 20:58 |           |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

**Sample: TRIP BLANK**      **Lab ID: 60431595006**      Collected: 06/21/23 12:00      Received: 06/21/23 15:28      Matrix: Water

| Parameters                             | Results | Units | PQL  | MDL   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--|---------|-------|------|-------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>                        |         |       |      |       |    |          |                |            |      |
| Analytical Method: EPA 5030B/8260      |         |       |      |       |    |          |                |            |      |
| Pace Analytical Services - Kansas City |         |       |      |       |    |          |                |            |      |
| Acetone                                | <2.5    | ug/L  | 10.0 | 2.5   | 1  |          | 06/22/23 20:44 | 67-64-1    |      |
| Benzene                                | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 20:44 | 71-43-2    |      |
| Bromobenzene                           | <0.088  | ug/L  | 1.0  | 0.088 | 1  |          | 06/22/23 20:44 | 108-86-1   |      |
| Bromochloromethane                     | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 20:44 | 74-97-5    |      |
| Bromodichloromethane                   | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 20:44 | 75-27-4    |      |
| Bromoform                              | <0.68   | ug/L  | 1.0  | 0.68  | 1  |          | 06/22/23 20:44 | 75-25-2    |      |
| Bromomethane                           | <0.46   | ug/L  | 5.0  | 0.46  | 1  |          | 06/22/23 20:44 | 74-83-9    |      |
| 2-Butanone (MEK)                       | <0.98   | ug/L  | 10.0 | 0.98  | 1  |          | 06/22/23 20:44 | 78-93-3    |      |
| n-Butylbenzene                         | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 20:44 | 104-51-8   |      |
| sec-Butylbenzene                       | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 20:44 | 135-98-8   |      |
| tert-Butylbenzene                      | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:44 | 98-06-6    |      |
| Carbon disulfide                       | <0.98   | ug/L  | 5.0  | 0.98  | 1  |          | 06/22/23 20:44 | 75-15-0    |      |
| Carbon tetrachloride                   | <0.17   | ug/L  | 1.0  | 0.17  | 1  |          | 06/22/23 20:44 | 56-23-5    |      |
| Chlorobenzene                          | <0.089  | ug/L  | 1.0  | 0.089 | 1  |          | 06/22/23 20:44 | 108-90-7   |      |
| Chloroethane                           | <0.37   | ug/L  | 1.0  | 0.37  | 1  |          | 06/22/23 20:44 | 75-00-3    |      |
| Chloroform                             | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 20:44 | 67-66-3    |      |
| Chloromethane                          | <0.28   | ug/L  | 1.0  | 0.28  | 1  |          | 06/22/23 20:44 | 74-87-3    |      |
| 2-Chlorotoluene                        | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 20:44 | 95-49-8    |      |
| 4-Chlorotoluene                        | <0.15   | ug/L  | 1.0  | 0.15  | 1  |          | 06/22/23 20:44 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane            | <0.78   | ug/L  | 2.5  | 0.78  | 1  |          | 06/22/23 20:44 | 96-12-8    |      |
| Dibromochloromethane                   | <0.30   | ug/L  | 1.0  | 0.30  | 1  |          | 06/22/23 20:44 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 20:44 | 106-93-4   |      |
| Dibromomethane                         | <0.11   | ug/L  | 1.0  | 0.11  | 1  |          | 06/22/23 20:44 | 74-95-3    |      |
| 1,2-Dichlorobenzene                    | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:44 | 95-50-1    |      |
| 1,3-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:44 | 541-73-1   |      |
| 1,4-Dichlorobenzene                    | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:44 | 106-46-7   |      |
| Dichlorodifluoromethane                | <0.20   | ug/L  | 1.0  | 0.20  | 1  |          | 06/22/23 20:44 | 75-71-8    |      |
| 1,1-Dichloroethane                     | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:44 | 75-34-3    |      |
| 1,2-Dichloroethane                     | <0.21   | ug/L  | 1.0  | 0.21  | 1  |          | 06/22/23 20:44 | 107-06-2   |      |
| 1,2-Dichloroethene (Total)             | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 20:44 | 540-59-0   |      |
| 1,1-Dichloroethene                     | <0.22   | ug/L  | 1.0  | 0.22  | 1  |          | 06/22/23 20:44 | 75-35-4    |      |
| cis-1,2-Dichloroethene                 | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:44 | 156-59-2   |      |
| trans-1,2-Dichloroethene               | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 20:44 | 156-60-5   |      |
| 1,2-Dichloropropane                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 20:44 | 78-87-5    |      |
| 1,3-Dichloropropane                    | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 06/22/23 20:44 | 142-28-9   |      |
| 2,2-Dichloropropane                    | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 06/22/23 20:44 | 594-20-7   |      |
| 1,1-Dichloropropene                    | <0.14   | ug/L  | 1.0  | 0.14  | 1  |          | 06/22/23 20:44 | 563-58-6   |      |
| cis-1,3-Dichloropropene                | <0.078  | ug/L  | 1.0  | 0.078 | 1  |          | 06/22/23 20:44 | 10061-01-5 |      |
| trans-1,3-Dichloropropene              | <0.18   | ug/L  | 1.0  | 0.18  | 1  |          | 06/22/23 20:44 | 10061-02-6 |      |
| Ethylbenzene                           | <0.12   | ug/L  | 1.0  | 0.12  | 1  |          | 06/22/23 20:44 | 100-41-4   |      |
| Hexachloro-1,3-butadiene               | <0.42   | ug/L  | 1.0  | 0.42  | 1  |          | 06/22/23 20:44 | 87-68-3    |      |
| 2-Hexanone                             | <1.1    | ug/L  | 10.0 | 1.1   | 1  |          | 06/22/23 20:44 | 591-78-6   |      |
| Isopropylbenzene (Cumene)              | <0.097  | ug/L  | 1.0  | 0.097 | 1  |          | 06/22/23 20:44 | 98-82-8    |      |
| p-Isopropyltoluene                     | <0.13   | ug/L  | 1.0  | 0.13  | 1  |          | 06/22/23 20:44 | 99-87-6    |      |
| Methylene Chloride                     | <0.39   | ug/L  | 1.0  | 0.39  | 1  |          | 06/22/23 20:44 | 75-09-2    |      |

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## ANALYTICAL RESULTS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

**Sample:** TRIP BLANK **Lab ID:** 60431595006 **Collected:** 06/21/23 12:00 **Received:** 06/21/23 15:28 **Matrix:** Water

| Parameters                             | Results | Units | PQL    | MDL   | DF | Prepared | Analyzed       | CAS No.   | Qual |
|--|---------|-------|--------|-------|----|----------|----------------|-----------|------|
| <b>8260 MSV</b>                        |         |       |        |       |    |          |                |           |      |
| Analytical Method: EPA 5030B/8260      |         |       |        |       |    |          |                |           |      |
| Pace Analytical Services - Kansas City |         |       |        |       |    |          |                |           |      |
| 4-Methyl-2-pentanone (MIBK)            | <0.74   | ug/L  | 10.0   | 0.74  | 1  |          | 06/22/23 20:44 | 108-10-1  |      |
| Methyl-tert-butyl ether                | <0.13   | ug/L  | 1.0    | 0.13  | 1  |          | 06/22/23 20:44 | 1634-04-4 |      |
| Naphthalene                            | <0.82   | ug/L  | 10.0   | 0.82  | 1  |          | 06/22/23 20:44 | 91-20-3   |      |
| n-Propylbenzene                        | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 20:44 | 103-65-1  |      |
| Styrene                                | <0.12   | ug/L  | 1.0    | 0.12  | 1  |          | 06/22/23 20:44 | 100-42-5  | L1   |
| 1,1,1,2-Tetrachloroethane              | <0.084  | ug/L  | 1.0    | 0.084 | 1  |          | 06/22/23 20:44 | 630-20-6  |      |
| 1,1,2,2-Tetrachloroethane              | <0.15   | ug/L  | 1.0    | 0.15  | 1  |          | 06/22/23 20:44 | 79-34-5   |      |
| Tetrachloroethene                      | <0.33   | ug/L  | 1.0    | 0.33  | 1  |          | 06/22/23 20:44 | 127-18-4  |      |
| Toluene                                | <0.25   | ug/L  | 1.0    | 0.25  | 1  |          | 06/22/23 20:44 | 108-88-3  |      |
| 1,2,3-Trichlorobenzene                 | <0.93   | ug/L  | 1.0    | 0.93  | 1  |          | 06/22/23 20:44 | 87-61-6   |      |
| 1,2,4-Trichlorobenzene                 | <0.73   | ug/L  | 1.0    | 0.73  | 1  |          | 06/22/23 20:44 | 120-82-1  |      |
| 1,1,1-Trichloroethane                  | <0.11   | ug/L  | 1.0    | 0.11  | 1  |          | 06/22/23 20:44 | 71-55-6   |      |
| 1,1,2-Trichloroethane                  | <0.14   | ug/L  | 1.0    | 0.14  | 1  |          | 06/22/23 20:44 | 79-00-5   |      |
| Trichloroethene                        | <0.21   | ug/L  | 1.0    | 0.21  | 1  |          | 06/22/23 20:44 | 79-01-6   |      |
| Trichlorofluoromethane                 | <0.16   | ug/L  | 1.0    | 0.16  | 1  |          | 06/22/23 20:44 | 75-69-4   |      |
| 1,2,3-Trichloropropane                 | <0.41   | ug/L  | 2.5    | 0.41  | 1  |          | 06/22/23 20:44 | 96-18-4   |      |
| 1,2,4-Trimethylbenzene                 | <0.32   | ug/L  | 1.0    | 0.32  | 1  |          | 06/22/23 20:44 | 95-63-6   |      |
| 1,3,5-Trimethylbenzene                 | <0.090  | ug/L  | 1.0    | 0.090 | 1  |          | 06/22/23 20:44 | 108-67-8  |      |
| Vinyl chloride                         | <0.17   | ug/L  | 1.0    | 0.17  | 1  |          | 06/22/23 20:44 | 75-01-4   |      |
| Xylene (Total)                         | <0.28   | ug/L  | 3.0    | 0.28  | 1  |          | 06/22/23 20:44 | 1330-20-7 |      |
| <b>Surrogates</b>                      |         |       |        |       |    |          |                |           |      |
| 4-Bromofluorobenzene (S)               | 99      | %     | 80-120 |       | 1  |          | 06/22/23 20:44 | 460-00-4  |      |
| 1,2-Dichlorobenzene-d4 (S)             | 97      | %     | 80-120 |       | 1  |          | 06/22/23 20:44 | 2199-69-1 |      |
| Toluene-d8 (S)                         | 105     | %     | 80-120 |       | 1  |          | 06/22/23 20:44 | 2037-26-5 |      |
| Preservation pH                        | 1.0     |       | 0.10   |       | 1  |          | 06/22/23 20:44 |           |      |

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## QUALITY CONTROL DATA

Project: 31ST & PROSPECT

Pace Project No.: 60431595

QC Batch: 853759

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60431595001, 60431595002, 60431595003, 60431595004, 60431595005, 60431595006

METHOD BLANK: 3380615

Matrix: Water

Associated Lab Samples: 60431595001, 60431595002, 60431595003, 60431595004, 60431595005, 60431595006

| Parameter                   | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.084       | 1.0             | 0.084 | 06/22/23 20:15 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.11        | 1.0             | 0.11  | 06/22/23 20:15 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.15        | 1.0             | 0.15  | 06/22/23 20:15 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.14        | 1.0             | 0.14  | 06/22/23 20:15 |            |
| 1,1-Dichloroethane          | ug/L  | <0.12        | 1.0             | 0.12  | 06/22/23 20:15 |            |
| 1,1-Dichloroethene          | ug/L  | <0.22        | 1.0             | 0.22  | 06/22/23 20:15 |            |
| 1,1-Dichloropropene         | ug/L  | <0.14        | 1.0             | 0.14  | 06/22/23 20:15 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <0.93        | 1.0             | 0.93  | 06/22/23 20:15 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.41        | 2.5             | 0.41  | 06/22/23 20:15 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.73        | 1.0             | 0.73  | 06/22/23 20:15 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.32        | 1.0             | 0.32  | 06/22/23 20:15 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.78        | 2.5             | 0.78  | 06/22/23 20:15 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.20        | 1.0             | 0.20  | 06/22/23 20:15 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.12        | 1.0             | 0.12  | 06/22/23 20:15 |            |
| 1,2-Dichloroethane          | ug/L  | <0.21        | 1.0             | 0.21  | 06/22/23 20:15 |            |
| 1,2-Dichloroethene (Total)  | ug/L  | <0.22        | 1.0             | 0.22  | 06/22/23 20:15 |            |
| 1,2-Dichloropropane         | ug/L  | <0.14        | 1.0             | 0.14  | 06/22/23 20:15 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.090       | 1.0             | 0.090 | 06/22/23 20:15 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.13        | 1.0             | 0.13  | 06/22/23 20:15 |            |
| 1,3-Dichloropropane         | ug/L  | <0.10        | 1.0             | 0.10  | 06/22/23 20:15 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.13        | 1.0             | 0.13  | 06/22/23 20:15 |            |
| 2,2-Dichloropropane         | ug/L  | <0.16        | 1.0             | 0.16  | 06/22/23 20:15 |            |
| 2-Butanone (MEK)            | ug/L  | <0.98        | 10.0            | 0.98  | 06/22/23 20:15 |            |
| 2-Chlorotoluene             | ug/L  | <0.11        | 1.0             | 0.11  | 06/22/23 20:15 |            |
| 2-Hexanone                  | ug/L  | <1.1         | 10.0            | 1.1   | 06/22/23 20:15 |            |
| 4-Chlorotoluene             | ug/L  | <0.15        | 1.0             | 0.15  | 06/22/23 20:15 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <0.74        | 10.0            | 0.74  | 06/22/23 20:15 |            |
| Acetone                     | ug/L  | <2.5         | 10.0            | 2.5   | 06/22/23 20:15 |            |
| Benzene                     | ug/L  | <0.14        | 1.0             | 0.14  | 06/22/23 20:15 |            |
| Bromobenzene                | ug/L  | <0.088       | 1.0             | 0.088 | 06/22/23 20:15 |            |
| Bromochloromethane          | ug/L  | <0.20        | 1.0             | 0.20  | 06/22/23 20:15 |            |
| Bromodichloromethane        | ug/L  | <0.16        | 1.0             | 0.16  | 06/22/23 20:15 |            |
| Bromoform                   | ug/L  | <0.68        | 1.0             | 0.68  | 06/22/23 20:15 |            |
| Bromomethane                | ug/L  | <0.46        | 5.0             | 0.46  | 06/22/23 20:15 |            |
| Carbon disulfide            | ug/L  | <0.98        | 5.0             | 0.98  | 06/22/23 20:15 |            |
| Carbon tetrachloride        | ug/L  | <0.17        | 1.0             | 0.17  | 06/22/23 20:15 |            |
| Chlorobenzene               | ug/L  | <0.089       | 1.0             | 0.089 | 06/22/23 20:15 |            |
| Chloroethane                | ug/L  | <0.37        | 1.0             | 0.37  | 06/22/23 20:15 |            |
| Chloroform                  | ug/L  | <0.22        | 1.0             | 0.22  | 06/22/23 20:15 |            |
| Chloromethane               | ug/L  | <0.28        | 1.0             | 0.28  | 06/22/23 20:15 |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALITY CONTROL DATA

Project: 31ST & PROSPECT

Pace Project No.: 60431595

METHOD BLANK: 3380615

Matrix: Water

Associated Lab Samples: 60431595001, 60431595002, 60431595003, 60431595004, 60431595005, 60431595006

| Parameter                  | Units | Blank Result | Reporting Limit | MDL   | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|-------|----------------|------------|
| cis-1,2-Dichloroethene     | ug/L  | <0.13        | 1.0             | 0.13  | 06/22/23 20:15 |            |
| cis-1,3-Dichloropropene    | ug/L  | <0.078       | 1.0             | 0.078 | 06/22/23 20:15 |            |
| Dibromochloromethane       | ug/L  | <0.30        | 1.0             | 0.30  | 06/22/23 20:15 |            |
| Dibromomethane             | ug/L  | <0.11        | 1.0             | 0.11  | 06/22/23 20:15 |            |
| Dichlorodifluoromethane    | ug/L  | <0.20        | 1.0             | 0.20  | 06/22/23 20:15 |            |
| Ethylbenzene               | ug/L  | <0.12        | 1.0             | 0.12  | 06/22/23 20:15 |            |
| Hexachloro-1,3-butadiene   | ug/L  | <0.42        | 1.0             | 0.42  | 06/22/23 20:15 |            |
| Isopropylbenzene (Cumene)  | ug/L  | <0.097       | 1.0             | 0.097 | 06/22/23 20:15 |            |
| Methyl-tert-butyl ether    | ug/L  | <0.13        | 1.0             | 0.13  | 06/22/23 20:15 |            |
| Methylene Chloride         | ug/L  | <0.39        | 1.0             | 0.39  | 06/22/23 20:15 |            |
| n-Butylbenzene             | ug/L  | <0.15        | 1.0             | 0.15  | 06/22/23 20:15 |            |
| n-Propylbenzene            | ug/L  | <0.12        | 1.0             | 0.12  | 06/22/23 20:15 |            |
| Naphthalene                | ug/L  | <0.82        | 10.0            | 0.82  | 06/22/23 20:15 |            |
| p-Isopropyltoluene         | ug/L  | <0.13        | 1.0             | 0.13  | 06/22/23 20:15 |            |
| sec-Butylbenzene           | ug/L  | <0.11        | 1.0             | 0.11  | 06/22/23 20:15 |            |
| Styrene                    | ug/L  | <0.12        | 1.0             | 0.12  | 06/22/23 20:15 |            |
| tert-Butylbenzene          | ug/L  | <0.12        | 1.0             | 0.12  | 06/22/23 20:15 |            |
| Tetrachloroethene          | ug/L  | <0.33        | 1.0             | 0.33  | 06/22/23 20:15 |            |
| Toluene                    | ug/L  | <0.25        | 1.0             | 0.25  | 06/22/23 20:15 |            |
| trans-1,2-Dichloroethene   | ug/L  | <0.10        | 1.0             | 0.10  | 06/22/23 20:15 |            |
| trans-1,3-Dichloropropene  | ug/L  | <0.18        | 1.0             | 0.18  | 06/22/23 20:15 |            |
| Trichloroethene            | ug/L  | <0.21        | 1.0             | 0.21  | 06/22/23 20:15 |            |
| Trichlorofluoromethane     | ug/L  | <0.16        | 1.0             | 0.16  | 06/22/23 20:15 |            |
| Vinyl chloride             | ug/L  | <0.17        | 1.0             | 0.17  | 06/22/23 20:15 |            |
| Xylene (Total)             | ug/L  | <0.28        | 3.0             | 0.28  | 06/22/23 20:15 |            |
| 1,2-Dichlorobenzene-d4 (S) | %     | 98           | 80-120          |       | 06/22/23 20:15 |            |
| 4-Bromofluorobenzene (S)   | %     | 96           | 80-120          |       | 06/22/23 20:15 |            |
| Toluene-d8 (S)             | %     | 105          | 80-120          |       | 06/22/23 20:15 |            |

LABORATORY CONTROL SAMPLE: 3380616

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | 20          | 20.9       | 105       | 80-120       |            |
| 1,1,1-Trichloroethane       | ug/L  | 20          | 19.2       | 96        | 75-125       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 20          | 18.2       | 91        | 80-120       |            |
| 1,1,2-Trichloroethane       | ug/L  | 20          | 19.4       | 97        | 80-120       |            |
| 1,1-Dichloroethane          | ug/L  | 20          | 18.3       | 92        | 75-120       |            |
| 1,1-Dichloroethene          | ug/L  | 20          | 18.6       | 93        | 75-120       |            |
| 1,1-Dichloropropene         | ug/L  | 20          | 18.6       | 93        | 75-125       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 20          | 20.1       | 101       | 60-135       |            |
| 1,2,3-Trichloropropane      | ug/L  | 20          | 18.7       | 94        | 75-120       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 20          | 19.7       | 99        | 65-130       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 20          | 19.7       | 98        | 80-120       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 20          | 18.2       | 91        | 65-130       |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 31ST & PROSPECT

Pace Project No.: 60431595

LABORATORY CONTROL SAMPLE: 3380616

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 20          | 19.1       | 95        | 80-120       |            |
| 1,2-Dichlorobenzene         | ug/L  | 20          | 20.3       | 101       | 80-120       |            |
| 1,2-Dichloroethane          | ug/L  | 20          | 17.8       | 89        | 80-120       |            |
| 1,2-Dichloroethene (Total)  | ug/L  | 40          | 37.6       | 94        | 80-120       |            |
| 1,2-Dichloropropane         | ug/L  | 20          | 18.1       | 90        | 80-120       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 20          | 20.2       | 101       | 75-120       |            |
| 1,3-Dichlorobenzene         | ug/L  | 20          | 20.5       | 102       | 80-120       |            |
| 1,3-Dichloropropane         | ug/L  | 20          | 18.8       | 94        | 80-120       |            |
| 1,4-Dichlorobenzene         | ug/L  | 20          | 19.9       | 100       | 80-120       |            |
| 2,2-Dichloropropane         | ug/L  | 20          | 17.6       | 88        | 55-135       |            |
| 2-Butanone (MEK)            | ug/L  | 100         | 78.5       | 79        | 50-155       |            |
| 2-Chlorotoluene             | ug/L  | 20          | 19.9       | 99        | 80-120       |            |
| 2-Hexanone                  | ug/L  | 100         | 85.7       | 86        | 55-145       |            |
| 4-Chlorotoluene             | ug/L  | 20          | 20.2       | 101       | 80-120       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 100         | 85.2       | 85        | 70-130       |            |
| Acetone                     | ug/L  | 100         | 76.1       | 76        | 35-160       |            |
| Benzene                     | ug/L  | 20          | 19.2       | 96        | 80-120       |            |
| Bromobenzene                | ug/L  | 20          | 21.0       | 105       | 80-120       |            |
| Bromochloromethane          | ug/L  | 20          | 19.3       | 97        | 80-120       |            |
| Bromodichloromethane        | ug/L  | 20          | 18.9       | 94        | 80-120       |            |
| Bromoform                   | ug/L  | 20          | 20.3       | 102       | 60-130       |            |
| Bromomethane                | ug/L  | 20          | 16.2       | 81        | 50-140       |            |
| Carbon disulfide            | ug/L  | 20          | 21.3       | 107       | 75-125       |            |
| Carbon tetrachloride        | ug/L  | 20          | 19.6       | 98        | 70-130       |            |
| Chlorobenzene               | ug/L  | 20          | 20.4       | 102       | 80-120       |            |
| Chloroethane                | ug/L  | 20          | 17.5       | 87        | 70-130       |            |
| Chloroform                  | ug/L  | 20          | 17.6       | 88        | 75-120       |            |
| Chloromethane               | ug/L  | 20          | 16.4       | 82        | 45-145       |            |
| cis-1,2-Dichloroethene      | ug/L  | 20          | 19.0       | 95        | 80-120       |            |
| cis-1,3-Dichloropropene     | ug/L  | 20          | 18.0       | 90        | 75-125       |            |
| Dibromochloromethane        | ug/L  | 20          | 19.8       | 99        | 75-125       |            |
| Dibromomethane              | ug/L  | 20          | 19.0       | 95        | 80-120       |            |
| Dichlorodifluoromethane     | ug/L  | 20          | 20.9       | 104       | 25-180       |            |
| Ethylbenzene                | ug/L  | 20          | 20.8       | 104       | 80-120       |            |
| Hexachloro-1,3-butadiene    | ug/L  | 20          | 19.0       | 95        | 65-125       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 20          | 21.5       | 107       | 80-125       |            |
| Methyl-tert-butyl ether     | ug/L  | 20          | 18.8       | 94        | 75-125       |            |
| Methylene Chloride          | ug/L  | 20          | 19.1       | 95        | 70-140       |            |
| n-Butylbenzene              | ug/L  | 20          | 19.3       | 96        | 70-125       |            |
| n-Propylbenzene             | ug/L  | 20          | 20.1       | 101       | 80-120       |            |
| Naphthalene                 | ug/L  | 20          | 19.0       | 95        | 60-140       |            |
| p-Isopropyltoluene          | ug/L  | 20          | 20.1       | 100       | 80-120       |            |
| sec-Butylbenzene            | ug/L  | 20          | 21.0       | 105       | 80-120       |            |
| Styrene                     | ug/L  | 20          | 24.3       | 122       | 80-120 L1    |            |
| tert-Butylbenzene           | ug/L  | 20          | 20.5       | 103       | 80-120       |            |
| Tetrachloroethene           | ug/L  | 20          | 21.2       | 106       | 80-125       |            |
| Toluene                     | ug/L  | 20          | 20.1       | 101       | 80-120       |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 31ST & PROSPECT

Pace Project No.: 60431595

LABORATORY CONTROL SAMPLE: 3380616

| Parameter                  | Units | Spike<br>Conc. | LCS<br>Result | LCS<br>% Rec | % Rec<br>Limits | Qualifiers |
|----------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| trans-1,2-Dichloroethene   | ug/L  | 20             | 18.7          | 93           | 80-120          |            |
| trans-1,3-Dichloropropene  | ug/L  | 20             | 17.9          | 89           | 75-125          |            |
| Trichloroethene            | ug/L  | 20             | 18.8          | 94           | 80-125          |            |
| Trichlorofluoromethane     | ug/L  | 20             | 19.5          | 98           | 75-125          |            |
| Vinyl chloride             | ug/L  | 20             | 18.0          | 90           | 65-140          |            |
| Xylene (Total)             | ug/L  | 60             | 61.2          | 102          | 80-120          |            |
| 1,2-Dichlorobenzene-d4 (S) | %     |                |               | 97           | 80-120          |            |
| 4-Bromofluorobenzene (S)   | %     |                |               | 97           | 80-120          |            |
| Toluene-d8 (S)             | %     |                |               | 102          | 80-120          |            |

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## QUALITY CONTROL DATA

Project: 31ST & PROSPECT  
Pace Project No.: 60431595

|                  |                |                       |  |
|------------------|----------------|-----------------------|--|
| QC Batch:        | 854155         | Analysis Method:      | EPA 5030B/8260                         |
| QC Batch Method: | EPA 5030B/8260 | Analysis Description: | 8260 MSV Water 10 mL Purge             |
|                  |                | Laboratory:           | Pace Analytical Services - Kansas City |

Associated Lab Samples: 60431595003

METHOD BLANK: 3382562 Matrix: Water

Associated Lab Samples: 60431595003

| Parameter                  | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|------|----------------|------------|
| Tetrachloroethene          | ug/L  | <0.33        | 1.0             | 0.33 | 06/26/23 10:01 |            |
| 1,2-Dichlorobenzene-d4 (S) | %     | 100          | 80-120          |      | 06/26/23 10:01 |            |
| 4-Bromofluorobenzene (S)   | %     | 99           | 80-120          |      | 06/26/23 10:01 |            |
| Toluene-d8 (S)             | %     | 99           | 80-120          |      | 06/26/23 10:01 |            |

LABORATORY CONTROL SAMPLE: 3382563

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Tetrachloroethene          | ug/L  | 20          | 19.6       | 98        | 80-125       |            |
| 1,2-Dichlorobenzene-d4 (S) | %     |             |            | 100       | 80-120       |            |
| 4-Bromofluorobenzene (S)   | %     |             |            | 103       | 80-120       |            |
| Toluene-d8 (S)             | %     |             |            | 98        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3382564 3382565

| Parameter                  | Units | 60431816001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Tetrachloroethene          | ug/L  | ND                 | 20             | 20              | 18.7      | 15.5       | 94       | 77        | 80-125       | 19  | 25      | M1   |
| 1,2-Dichlorobenzene-d4 (S) | %     |                    |                |                 |           |            | 98       | 101       | 80-120       |     |         |      |
| 4-Bromofluorobenzene (S)   | %     |                    |                |                 |           |            | 103      | 103       | 80-120       |     |         |      |
| Toluene-d8 (S)             | %     |                    |                |                 |           |            | 100      | 98        | 80-120       |     |         |      |

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## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 31ST & PROSPECT

Pace Project No.: 60431595

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 853759

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 31ST & PROSPECT

Pace Project No.: 60431595

| Lab ID      | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 60431595001 | MW1         | EPA 5030B/8260  | 853759   |                   |                  |
| 60431595002 | MW2         | EPA 5030B/8260  | 853759   |                   |                  |
| 60431595003 | MW3         | EPA 5030B/8260  | 853759   |                   |                  |
| 60431595003 | MW3         | EPA 5030B/8260  | 854155   |                   |                  |
| 60431595004 | DUP         | EPA 5030B/8260  | 853759   |                   |                  |
| 60431595005 | FIELD BLANK | EPA 5030B/8260  | 853759   |                   |                  |
| 60431595006 | TRIP BLANK  | EPA 5030B/8260  | 853759   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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WO#: 60431595



60431595



DC#\_Title: ENV-FRM-LENE-0009\_Sample C

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Tetra Tech EMI

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☒ Xroads ☐ Client ☐ Other ☐

Tracking #: \_\_\_\_\_ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: 1249 Type of Ice: Wet Blue ☐ None ☐

Cooler Temperature (°C): As-read 14.1 Corr. Factor 10.2 Corrected 14.3

Date and initials of person examining contents:

AF 6/21

Temperature should be above freezing to 6°C

|  |  |  |
|--|--|--|
| Chain of Custody present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Chain of Custody relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Samples arrived within holding time:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Short Hold Time analyses (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Rush Turn Around Time requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Sufficient volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Correct containers used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Pace containers used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Containers intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Filtered volume received for dissolved tests?  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Sample labels match COC: Date / time / ID / analyses   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Samples contain multiple phases? Matrix: <u>WT</u>   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Containers requiring pH preservation in compliance?<br>(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide)<br>(Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| Cyanide water sample checks:   |  |  |
| Lead acetate strip turns dark? (Record only)   | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |
| Potassium iodide test strip turns blue/purple? (Preserve)  | <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |
| Trip Blank present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Headspace in VOA vials (>6mm):   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |
| Samples from USDA Regulated Area: State:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Additional labels attached to 5035A / TX1005 vials in the field?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

| Section A                    |                                | Section B                     |                  | Section C             |                             |
|------------------------------|--------------------------------|-------------------------------|------------------|-----------------------|-----------------------------|
| Required Client Information: |                                | Required Project Information: |                  | Invoice Information:  |                             |
| Company:                     | TETRA TECH EMI                 | Report To:                    | Kaitlyn Mitchell | Attention:            |                             |
| Address:                     | 415 Oak                        | Copy To:                      |                  | Company Name:         |                             |
|                              | Kansas City, MO 64106          |                               |                  | Address:              |                             |
| Email:                       | kaitlyn.mitchell@tetratech.com | Purchase Order #:             |                  | Pace Quote:           |                             |
| Phone:                       | (816)412-1742                  | Project Name:                 | 31st & Prospect  | Pace Project Manager: | jamiie.church@paceclabs.com |
| Fax:                         |                                | Project #:                    |                  | Pace Profile #:       | 070                         |
| Requested Due Date:          |                                |                               |                  | State / Location      |                             |

Page : 1 Of 1

[illegible]



Client: Tetra Tech EMI  
Site: 31st & Prospect

Profile #

070

Notes

| COC Line Item | Matrix | WG9H | DG9H | DG9Q | VG9U | DG9U | DG9M | DG9B | BG1U | AG1H | AG1U | AG2U | AG3S | AG4U | AG5U | JGFU | WGKU | WGDU | BP1U | BP2U | BP3U | BP1N | BP3N | BP3F | BP3S | BP3C | BP3Z | WPDU | ZPLC | Other |
|---------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1             | W      | W    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 2             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 3             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 4             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 5             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 6             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 7             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 8             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 9             |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 10            |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 11            |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| 12            |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |

Container Codes

| Glass |                             | Plastic |                                     | Misc. |                                     |
|-------|-----------------------------|---------|-------------------------------------|-------|-------------------------------------|
| DG9B  | 40mL bisulfate clear vial   | WGKU    | 8oz clear soil jar                  | BP1C  | 1L NaOH plastic                     |
| DG9H  | 40mL HCl amber vial         | WGFU    | 4oz clear soil jar                  | BP1N  | 1L HNO3 plastic                     |
| DG9M  | 40mL MeOH clear vial        | WG2U    | 2oz clear soil jar                  | BP1S  | 1L H2SO4 plastic                    |
| DG9Q  | 40mL TSP amber vial         | JGFU    | 4oz unpreserved amber wide          | BP1U  | 1L unpreserved plastic              |
| DG9S  | 40mL H2SO4 amber vial       | AG0U    | 100mL unores amber glass            | BP1Z  | 1L NaOH, Zn Acetate                 |
| DG9T  | 40mL Na Thio amber vial     | AG1H    | 1L HCl amber glass                  | BP2C  | 500mL NaOH plastic                  |
| DG9U  | 40mL amber unpreserved      | AG1S    | 1L H2SO4 amber glass                | BP2N  | 500mL HNO3 plastic                  |
| VG9H  | 40mL HCl clear vial         | AG1T    | 1L Na Thiosulfate clear/amber glass | BP2S  | 500mL H2SO4 plastic                 |
| VG9T  | 40mL Na Thio. clear vial    | AG1U    | 1liter unpres amber glass           | BP2U  | 500mL unpreserved plastic           |
| VG9U  | 40mL unpreserved clear vial | AG2N    | 500mL HNO3 amber glass              | BP2Z  | 500mL NaOH, Zn Acetate              |
| BG1S  | 1liter H2SO4 clear glass    | AG2S    | 500mL H2SO4 amber glass             | BP3C  | 250mL NaOH plastic                  |
| BG1U  | 1liter unpres glass         | AG3S    | 250mL H2SO4 amber glass             | BP3F  | 250mL HNO3 plastic - field filtered |
| BG3H  | 250mL HCL Clear glass       | AG2U    | 500mL unpres amber glass            | BP3N  | 250mL HNO3 plastic                  |
| BG3U  | 250mL Unpres Clear glass    | AG3U    | 250mL unpres amber glass            | BP3U  | 250mL unpreserved plastic           |
| WGDU  | 16oz clear soil jar         | AG4U    | 125mL unpres amber glass            | BP3S  | 250mL H2SO4 plastic                 |
|       |                             | AG5U    | 100mL unpres amber glass            | BP3Z  | 250mL NaOH, Zn Acetate              |
|       |                             |         |                                     | BP4U  | 125mL unpreserved plastic           |
|       |                             |         |                                     | BP4N  | 125mL HNO3 plastic                  |
|       |                             |         |                                     | BP4S  | 125mL H2SO4 plastic                 |
|       |                             |         |                                     | WPDU  | 16oz unpreserved plastic            |

Work Order Number:

60431595

## DATA VERIFICATION REPORT

**Prepared by:** Ellen McEntee  
**Date:** July 7, 2023  
**Site Name/Task Order:** 31st & Prospect Site / 103G65210190  
**Laboratory:** Pace Analytical Services – Lenexa, Kansas

**Data Package or SDG Number:** 60431595

**Sample Designations/Names:**

MW1

MW2

MW3

DUP

FIELD BLANK

TRIP BLANK

**Matrices:** Groundwater

**Analytical Parameters:** Volatile Organic Compounds (VOCs) by EPA Method 5030B/8260

| Data Package Element   | Usable                              | Rejected                 | NA                                  | Description of Affected Data<br>(note specific samples and analytical parameters affected)   |
|--|-------------------------------------|--------------------------|-------------------------------------|--|
| Chain-of-custody   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | The “Relinquished by” and “Date/Time” sections of the chain of custody form were not completed. Sample results were not qualified based on this.   |
| Data package completeness  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |  |
| Sample preservation, storage, and holding times                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | The samples were received at a temperature of 14.3°C. All sample results were qualified as estimated (flagged J/UJ).   |
| Method and field blank contamination                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |  |
| Surrogate spikes   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |  |
| Matrix spikes/matrix spike duplicates (MS/MSD)                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Matrix spikes from other data packages were not assessed.  |
| Laboratory control samples/Laboratory control sample duplicates (LCS/LCSD) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | The LCS recovery for styrene was above the acceptance limit. The associated sample results for styrene are non-detect and were not qualified.  |
| Other (field duplicates)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | MW1/DUP: Field duplicate precision was not met for 1,2-dichloroethene (total), cis-1,2-dichloroethene, and trichloroethene. The parent sample and field duplicate results were qualified as estimated (flagged J). |

| Data Package Element   | Usable | Rejected | NA | Description of Affected Data<br>(note specific samples and analytical parameters affected) |
|--|--------|----------|----|--|
| <b>Summary</b><br>Data is usable with the qualifications applied. Results reported between the MDL and the RL were qualified as estimated (flagged J) by the laboratory. |        |          |    |  |