June 13, 2023

Gratus Development, LLC
8375 East 96th Street
Indianapolis, Indiana 46256
Attention: Ms. Danielle Massey

Re: Preliminary Phase II Investigation
Bridges Townhomes
3309 East Saint Clair Street, 601 North Lasalle Street, and 603 North Lasalle Street
Indianapolis, Indiana 46201
Aegis Project No.: 23-091

Dear Ms. Massey:

Aegis Environmental, Inc. (Aegis) performed a Preliminary Phase II Subsurface Investigation at the above-referenced property on behalf of Gratus Development LLC and Englewood Community Development Corporation. It is our pleasure to submit the following report summarizing the findings of the investigation.

If you have any questions or comments regarding our findings or report, please contact us. Thank you for the opportunity to provide our services.

Best Regards
Aegis Environmental, Inc.

James Hoover, CHMM
Senior Project Manager

Bruce E. Bultman, LPG
Principal Geologist

PRELIMINARY PHASE II SUBSURFACE INVESTIGATION
Bridges Townhomes
3309 East Saint Clair, 601 and 630 North Lasalle Street
Indianapolis, Indiana

PREPARED FOR:
Gratus Development, LLC
Indianapolis, Indiana
And
Englewood Community Development Corporation
Indianapolis, Indiana

June 13, 2023

Aegis Environmental, Inc.
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TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY

A Preliminary Phase II Subsurface Investigation was conducted to assess Controlled Recognized Environmental Conditions (CRECs) identified in the Phase I Environmental Site Assessment (ESA) prepared by Aegis Environmental, Inc. (Aegis) dated May 25, 2023. The Subject Property is approximately 1.75 acres in size and is located at 3309 East Saint Clair Street, 601 North Lasalle Street, and 603 North Lasalle Street in Indianapolis, Indiana. The Subject Property is located on the east side of North Lasalle Street between East Saint Clair Street and East North Street. An asphalt-paved parking lot occupies the 3309 East Saint Clair Street parcel. 601 North Lasalle Street is a vacant grass-covered lot. 603 North Lasalle Street is occupied by a vacant two-story residence with a partial basement. The Subject Property is part of the Former General Electric Corporation (GE) – Sherman Park.

The Phase I ESA indicated additional investigation was warranted to determine the presence or absence of soil, groundwater, and vapor contamination due to the Former GE – Sherman Park facility to support the appropriateness of an environmental restrictive covenant (ERC) modification or termination. Considerable testing has been conducted as part of the Former GE – Sherman Park facility's site assessment and cleanup; however, no testing had occurred on the Subject Property.

Eight soil probes were completed across the Subject Property to assess for contamination and provide data representative of potential risk. Four soil probes were completed as temporary piezometers to assess the shallow aquifer. Furthermore, four temporary soil gas sampling points were installed to evaluate for vapor intrusion. The soil borings were advanced to a maximum depth of 30 feet below the ground surface (bgs). Soil samples were analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and hexavalent chromium. Groundwater and soil gas samples were analyzed for VOCs.

Soils consisted of a few inches to as much as five feet of fill. The fill is underlain by a loamy textured soil with discontinuous sand lens. No field evidence of contamination such as petroleum odors, elevated PID readings, or staining was observed in soil samples collected from the soil probes. Concentrations of VOCs and PAHs in soil were below laboratory detection limits and Indiana Department of Environmental Management (IDEM) Risk-based Closure Guidelines (R2) residential long-term published levels. Metals including barium, chromium, and lead were detected. Concentrations of barium and lead were below the IDEM R2 residential long-term published levels. Published levels are not established for total chromium. Therefore, chromium was speciated between trivalent chromium (Chromium III) and the more toxic hexavalent chromium (Chromium VI). Concentrations of Chromium VI were below the IDEM R2 residential long-term published level. Concentrations of VOCs, PAHs, and metals in soil were below applicable R2 residential published levels.

Groundwater was present at a depth of 7.44 feet to 11.04 feet bgs. Concentrations of VOCs in groundwater were below laboratory detection limits and IDEM groundwater long-term published levels.

Concentrations of VOCs in soil gas samples were below laboratory detection limits except for tetrachloroethylene (PCE) in one soil gas sample. The concentration of PCE was below IDEM R2 residential published levels.

Based on the Preliminary Phase II Subsurface Investigation findings, it does not appear the Former GE-Sherman Park facility adversely impacted soil, shallow groundwater, or vapor at the Subject Property. The findings of this investigation support modification of the ERC to allow residential development.

2.0 INTRODUCTION AND BACKGROUND

The Subject Property is located on the east side of Indianapolis, Indiana as shown in **Figure 1.** The Subject Property comprises approximately 1.75 acres of land on three parcels. An asphalt-paved parking lot occupies the parcel at 3309 East Saint Clair Street. The parcel at 601 North Lasalle Street is a vacant grass-covered lot. The parcel at 603 North Lasalle Street is a vacant two-story residence with a partial basement.

According to available historical sources, the Subject Property was undeveloped as early as 1915. The Subject Property was developed initially for residential purposes. By the early 1980s the northern portion of the Subject Property was developed as a parking lot for the Radio Corporation of America (RCA) facility and the later Former General Electric Corporation (GE) – Sherman Park facility.

The adjoining properties have been used for residential and industrial purposes. The adjoining properties to the north and west of the Subject Property have been utilized for residential purposes since at least 1915. The adjoining properties to the east were utilized for residential and commercial purposes since at least 1936. Commercial uses primarily included a parking lot and stores for the RCA facility. The adjoining property to the south was developed by at least 1936 for industrial purposes by RCA, GE, Thomson Consumer Electronics, and Johnson Machinery/Sherman Park. The adjoining property to the south is currently a vacant lot.

In May 2023, Aegis conducted a Phase I Environmental Site Assessment (Phase I ESA) for the Subject Property (Aegis File No. 23-090). The Phase I ESA identified the following Controlled Recognized Environmental Conditions (CREC):

<u>Controlled Recognized Environmental Conditions</u>

- The Subject Property is part of the larger Former GE - Sherman Park facility. Environmental restrictive covenants (ERCs) were recorded on the property deeds for 3309 East Saint Clair Street and 601 North Lasalle Street parcels in 2012 and 2014. The ERCs prohibit residential development and groundwater use (i.e., no groundwater extraction wells), and excavated soils generated during construction activities must be disposed of per state and local laws, and requires a vapor intrusion mitigation system be maintained in any human-occupied building that poses an unacceptable risk. The stipulations within the ERCs constitute a CREC for the Subject Property.

To evaluate the CRECs, this Preliminary Phase II Subsurface Investigation was conducted. Considerable testing has been conducted as part of the Former GE – Sherman Park facility's site assessment and cleanup; however, no testing has occurred on the Subject Property. Aegis understands plans are to redevelop the Subject Property as the Bridges Townhomes. The proposed Bridges Townhomes development will be supplied with municipal water, and the groundwater use restriction will not prohibit development. Before the Preliminary Investigation, the Indiana Brownfields was contacted to discuss modification of the ERC and testing. Brownfields requested soil borings be spread across the Subject Property and analyses of samples be conducted to establish a baseline determination of potential risk. Tracey Concannon with Brownfields indicated an

assessment of only the upper water-bearing zone was necessary, assuming the groundwater use restriction can remain in place. The following provides a discussion of the investigation and findings.

2.1 Regulatory Significance and Screening Levels

In February 2001, the Indiana Department of Environmental Management (IDEM) initiated the Risk Integrated System of Closure (RISC) program, which established default closure (clean-up) levels for soil and groundwater. The closure levels were based on standard default risk assessment assumptions for human exposure and were available for residential and commercial/industrial land-use scenarios.

In 2012 IDEM published the Remediation Closure Guide (RCG), a substantial revision of the prior RISC guidance. The RCG built on the prior guidance and utilized screening levels (SLs) for soil (for residential, commercial/industrial, and excavation), groundwater (tap water), and vapor exposure (residential and commercial/industrial).

In July 2022, the IDEM published the Risk-based Closure Guide (R2). The R2 sets forth a framework for characterizing releases, evaluating resulting risk and, when necessary, selecting and implementing appropriate remedies that allow closure. The R2 uses a risk-based approach to generate acceptable concentrations for chemicals in various media under specific exposure scenarios and calls them published levels. Published levels can be used as remediation objectives, but doing so is not required. Other options may exist that may have significant advantages. For this investigation, the 2023 R2 Table 1 Published Levels for residential are used as intentions are to develop the Subject Property for multi-family residential purposes.

3.0 SOIL INVESTIGATION

3.1 Soil Probe Placement Rationale

On May 23, 2023, Aegis completed eight soil probes (P-1 through P-8) to collect soil and groundwater samples to assess for potential contamination. Soil probes were spread across the Subject Property to provide data representative of potential risk. **Figure 2** illustrates soil probe and piezometer locations.

3.2 Sampling and Analysis Methodology

The Indiana Underground Plant Protection Services (IUPPS) was notified to locate buried utilities before initiating drilling activities.

Soil probes were completed using a track-mounted Geoprobe® 7720 direct push drilling probe. Soil samples were collected using a four-foot macro-core sampler with an acetate liner. Soil samples collected during field sampling activities were classified in the field per the U.S. Department of Agriculture (USDA) soil classification system. Probe logs with soil classification, color (identified with Munsell Color Chart), moisture, and conditions, including petroleum staining and atypical odors, are attached in **Appendix A.**

Soil samples were collected and divided into two aliquots for laboratory analysis and field screening. Per IDEM Technical Guidance Document *Sampling Soil and Waste for Volatile Organic Compounds,* the first portion of the soil sample was collected using a Terra Core™ sampler. To minimize loss of VOCs, the soil sample was collected as quickly as possible, taking special care to limit exposure and disaggregation of the soil's physical structure. The soil sample was directly placed into a pre-weighed 40 ml vial with Teflon® lined septa, labeled, and placed in a cooler with ice for preservation. A subset of the soil sample, collected for laboratory analysis for polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and hexavalent chromium, was placed in four-ounce glass jars with Teflon® lined lid, labeled and also placed in a cooler with ice for preservation. The second portion of the sample was placed in a plastic zip-lock bag for field screening. Disposable nitrile gloves were worn by the sampler and changed between soil probe locations to prevent cross-contamination.

The samples collected in the zip-lock bag were field screened with a MultiRae® Lite Photoionization Detector (PID) equipped with a 10.6 eV lamp. The PID measures the concentration of total photoionizable vapors (TPVs) in the air (headspace) surrounding the sample. Accordingly, the readings reported from the PID are in units relative to the calibration gas, rather than exact concentrations. The PID was calibrated to an isobutylene standard at the start of each day. Soil samples were allowed to equilibrate to the ambient temperature for approximately five minutes prior to screening procedures. Each sample was then agitated for approximately 10 seconds to break up soil clods and release vapors. The PID probe tip then inserted into the zip-lock bag, with care being taken to insert the instrument through a single small hole. PID instrument readings were recorded and are summarized on the soil probe logs in **Appendix A**.

To confirm field screening results, soil samples from each probe showing the greatest potential for contamination were selected for laboratory analysis. Generally, a soil sample from the shallow

subsurface soils (five feet or less), or within permeable strata was selected for analysis. Soil samples were submitted to Envision Laboratories in Indianapolis, Indiana (Envision) for chemical analysis. As a baseline determination of potential risk, soil samples were analyzed for VOCs by Method SW846-8260, PAHs by Method SW846-8270SIM, RCRA Metals (arsenic, barium, cadmium, chromium, lead, selenium, and silver) by Method EPA 6010B, and hexavalent chromium by Method EPA 218.6. Soil samples were also analyzed for moisture content via ASTM Method D2216; all analytical results were reported on a dry-weight basis. For Quality Assurance Quality Control (QA/QC), a matrix spike (MS), matrix spike duplicate (MSD), and a duplicate were analyzed for each set of 20 samples. One trip blank, consisting of distilled water, was also analyzed. A Chain-of-Custody form was completed for the samples to record each individual contacting each sample from the point of origin through the analysis.

3.3 Discussion of Soil Findings

The northern portion of the Subject Property is covered with an asphalt parking lot. The southern portion of the Subject Property is a grass-covered lot and vacant residential structure. Aegis encountered from a few inches to as much as five feet of fill in the soil probes. The fill generally contained soil mixed with some brick fragments, cinders, and sand. The fill is underlain by a loam to clay loam textured glacial till with discontinuous sand lens. No field evidence of contamination such as petroleum odors, elevated PID readings, or staining, was observed in samples collected from the soil probes.

Table 1 summarizes detected VOCs, PAHs, and metals in soils. **Figure 2** shows probe locations. Aegis compared the laboratory analytical results against 2023 RCG published levels. Laboratory results indicate that concentrations of VOCs, PAHs, and RCRA metals did not exceed 2022 R2 residential long-term published levels. Published levels are not established for total chromium. Therefore, chromium was speciated between trivalent chromium (Chromium III) and the more toxic hexavalent chromium (Chromium VI). Concentrations of Chromium VI were below the IDEM R2 residential long-term published level. Concentrations of contaminants of concern (COCs) were below applicable R2 residential long-term published levels.

The laboratory report is provided in **Appendix B**. A complete list of analytical parameters is included in the laboratory report.

For QA/QC purposes, a MS, MSD, and a trip blank were analyzed. Data verification included a review of the data sheet, which reported surrogate recoveries, laboratory control sample (LCS) results, and MS results. MS/MSD recoveries and relative percent differences (RPDs) were within established control limits. No contaminants were detected in the trip blank. Data quality objectives for the laboratory analysis were achieved.

4.0 GROUNDWATER INVESTIGATION

4.1 Temporary Piezometer Installation

Upon collection of soil samples, four soil probes were converted to temporary piezometers. The temporary piezometers were completed by installing one-inch Schedule 40 PVC materials inside the probe holes. The piezometers were constructed with a 10-foot length of 0.010-inch machine-slotted well screen. The piezometers were purged to remove the residual sediments and allowed to recharge 24 hours before sampling. Piezometer construction schematics can be found on soil probe logs in **Appendix A.**

4.2 Groundwater Sampling and Analysis Methodology

Before sampling, each piezometer was checked for free-phase hydrocarbons (FPH), and the static water level was gauged using a Solinst oil/water interface probe. Groundwater samples from temporary piezometers were collected with new, single-use, disposable polyethylene bailers.

Groundwater samples analyzed for VOCs were collected into new, pre-cleaned 40 ml Volatile Organic Analysis (VOA) vials preserved with hydrochloric acid (HCL). The containers were labeled with the project name, project number, and location. Groundwater samples were submitted to Envision for chemical analysis. A chain-of-custody was prepared for the samples. The groundwater samples were analyzed for VOCs by Method SW846-8260. For QA/QC, a MS, MSD, and a duplicate were analyzed. One trip blank, consisting of distilled water, provided by the laboratory was also analyzed.

4.3 Discussion of Groundwater Findings

On May 24, 2023 the four temporary piezometers were gauged and sampled. No FPH was observed in any of the piezometers. As summarized in **Table 2**, the static water levels were at a depth of 7.44 feet to 11.04 feet bgs.

Table 3 provides a summary of detected VOCs in groundwater. **Figure 2** shows the sample locations. The laboratory analytical results were compared against 2023 R2 long-term residential groundwater published levels. Laboratory results indicate concentrations of VOCs are below the laboratory detection limits and IDEM R2 groundwater long-term published levels.

The laboratory report for groundwater is provided in **Appendix B**. A complete list of analytical parameters is included in the laboratory report.

For QA/QC purposes, a MS, MSD, duplicate, and trip blank were analyzed. Data verification included a review of the data sheet, which reported surrogate recoveries, LCS results, and MS results. MS/MSD recoveries and RPDs were within established control limits. Results of the duplicate samples were similar. No contaminants were detected in the trip blank. Data quality objectives for the laboratory analysis were achieved.

5.0 VAPOR INVESTIGATION

5.1 Vapor Sampling Rationale

Exterior soil gas (SGe) sampling is appropriate when evaluating the vapor intrusion potential at undeveloped properties. IDEM generally considers shallow soil gas to include samples collected no more than five feet bgs, and deep soil gas to include samples collected at more than five feet bgs.

Collection of the soil gas samples included the installation of four soil gas sampling points spread across the Subject Property. Soil gas sampling locations are shown in **Figure 2**

5.2 Field Procedures and Vapor Analysis

Soil Gas

On May 23, 2023 the soil gas sample points were installed. The soil gas sampling points were placed approximately three feet from the temporary groundwater piezometers using the Geoprobe®. Soil probe logs are included in **Appendix A**. Six-inch stainless-steel implants with quarter-inch diameter Teflon tubing was placed at a depth of 6.5 to 7 feet bgs. Silica sand was placed in the soil probe borehole to six inches above the soil gas implant. To prevent ambient air from entering the sampling train, the borehole annulus above the sand pack to the ground surface was sealed with bentonite. The bentonite was hydrated with water.

The soil gas points were allowed to equilibrate for 24 hours before sampling. Before collecting soil gas samples, approximately three volumes of air within the sampling apparatus were purged. During the purging of the sampling apparatus, the soil gas was monitored using a MultiRae® Lite PID equipped with a 10.6 eV lamp PID for VOCs, lower explosive limits (LEL), carbon dioxide (CO_2), and oxygen (O_2). Vapor samples were analyzed for methane using a Landtec GEM 5000 gas monitor. A summary of the soil gas field monitoring readings is provided in **Table 3**. The soil gas samples were then collected over 10 minutes using batch-certified pre-cleaned one-liter (L) Summa canisters provided by the laboratory. The air samples were submitted to EnvisionAir in Indianapolis, Indiana, and analyzed for VOCs by Method TO-15.

5.3 Discussion of Soil Gas Findings

On May 24, 2023 the soil gas sampling points were sampled. Pre-sample collection field screening did not indicate evidence of contamination such as elevated PID readings or elevated methane concentrations.

Aegis compared the laboratory results for soil gas by TO-15 analysis to 2023 R2 soil gas, deep exterior, residential published levels. VOC concentrations were below laboratory detection limits and R2 residential published levels. A summary of the soil gas vapor data is provided in **Table 4**. The laboratory analytical reports are provided in **Appendix B.** A complete list of analytical parameters is included in the laboratory report.

6.0 CONCLUSIONS

On May 23 and May 24, 2023 a Preliminary Phase II Subsurface Investigation was conducted. The purpose of the investigation was to assess the CRECs identified in the Phase I ESA and support the appropriateness of an ERC modification or termination. The RECs are identified below, followed by our conclusions based on the findings of the investigation.

CRECs

- The Subject Property is part of the larger Former GE - Sherman Park facility. Environmental restrictive covenants (ERCs) were recorded on the property deeds for 3309 East Saint Clair Street and 601 North Lasalle Street parcels in 2012 and 2014. The ERCs prohibit residential development and groundwater use (i.e., no groundwater extraction wells), and excavated soils generated during construction activities must be disposed of per state and local laws, and requires a vapor intrusion mitigation system be maintained in any human-occupied building that poses an unacceptable risk. The stipulations within the ERCs constitute a CREC for the Subject Property.

Eight soil probes were completed across the Subject Property to assess for soil contamination. No field evidence of contamination such as petroleum odors, elevated PID readings, or staining was observed in samples collected from the soil probes. Concentrations of VOCs, PAHs, and metals in soil were below IDEM R2 residential long-term published levels.

Four temporary piezometers were completed to assess groundwater contamination. Groundwater was present at a depth of 7.44 feet to 11.04 feet bgs. Concentrations of VOCs in groundwater were below laboratory detection limits and IDEM groundwater long-term published levels.

Four soil gas sampling points were completed to evaluate the vapor intrusion potential. Concentrations of VOCs in soil gas samples were below IDEM R2 residential published levels.

Aegis understands that Gratus Development and Englewood Community Development Corp are evaluating the Subject Property for potential residential redevelopment. Based on the Preliminary Phase II Subsurface Investigation findings, it does not appear the Former GE-Sherman Park facility on adjoining properties has adversely impacted soil, shallow groundwater, or soil gas vapor at the Subject Property. The finding of this investigation support modification of the existing ERC to allow residential development.

7.0 REFERENCES CITED

Aegis Environmental, Inc., May 25, 2023, Phase I Environmental Site Assessment, Bridges Townhomes, 3309 East Saint Clair Street, 601 North Lasalle Street, and 603 North Lasalle Street, Indianapolis, Indiana; Aegis Project No. 23-090; Prepared for Gratus Development LLC; 37 p.

Indiana Department of Environmental Management, July 8, 2022, Risk-Based Closure Guide, Office of Land Quality, Indiana Department of Environmental Management, 188 p.

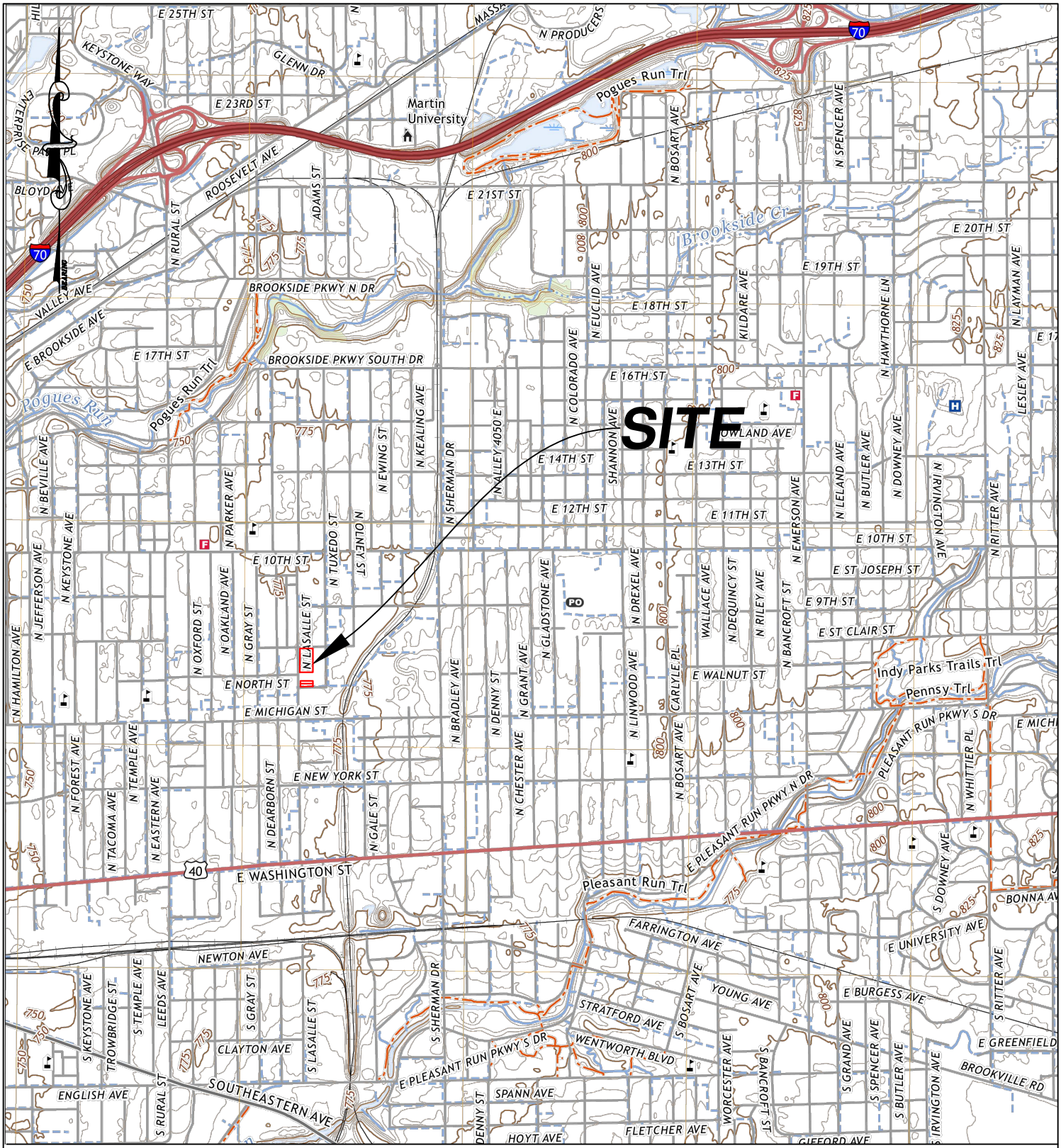
Indiana Department of Environmental Management, Table 1: March 1, 2023 IDEM Office of Land Quality Human Health Levels, 11p.

Indiana Department of Environmental Management, Virtual File Cabinet (currently www.in.gov/idem/)

Ramboll (February 28, 2023) 2022 Annual Progress Report, Former Indianapolis Consumer Electronics Plant (Sherman Park Facility), Indianapolis, Indiana (VRP) #6020801), Project no.: 1940102121, 22 p., IDEM VRP #83441371

U.S. Department of Interior Geological Survey, Indianapolis East, Indiana, 7-½ minute Topographical Map; 2022; State of Indiana Department of Natural Resources, Indianapolis, Indiana.

Figures



USGS 7.5' QUADRANGLE: INDIANAPOLIS EAST, INDIANA 2022
SITE: LATITUDE 39.778°
LONGITUDE -86.110°

0 1000' 2000'
Scale 1"=2,000 feet

AEGIS Environmental, Inc.
20 Years 2000-2020
Environmental & Geological Consultants

1013 NORTH BLUFF ROAD
GREENWOOD, INDIANA 46142
Tel: 317-833-9000
Fax: 317-833-9001

PROJECT NO.: 23-090

CLIENT:
GRATUS DEVELOPMENT
8375 E 96th STREET #111
INDIANAPOLIS, IN 46256

SITE:
BRIDGES TOWNHOMES
N LASALLE AND E ST CLAIR STREETS
INDIANAPOLIS, INDIANA

TITLE:
FIGURE 1
SUBJECT PROPERTY
LOCATION MAP

AEGIS Environmental, Inc.
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N LASALLE AND E ST CLAIR STREETS
INDIANAPOLIS, INDIANA

TITLE:

FIGURE 2
BORING LOCATION PLAN

Tables

Table 1. Summary of Detected Contaminants of Concern in Soil
Bridges Townhomes
Indianapolis, Indiana

Boring Sample ID	Sample Depth (feet)	Date Sampled	All VOCs	All PAHs	Metals			
					Barium	Chromium	Lead	Hexavalent Chromium
P-1	1.5	5/23/23	ND	ND	**86**	**11**	**9.5**	ND
P-2	3	5/23/23	ND	ND	**42**	**7.4**	**13**	ND
P-3	4	5/23/23	ND	ND	**62**	**7.4**	**8.6**	ND
P-4	7	5/23/23	ND	ND	**32**	**7.2**	**3.3**	ND
P-5	4	5/23/23	ND	ND	**89**	**8.6**	**329**	ND
P-6	5	5/23/23	ND	ND	**77**	**8.4**	**125**	ND
P-7 MS/MSD	5	5/23/23	ND	ND	**117**	**10**	**9.5**	ND
P-8	2	5/23/23	ND	ND	**111**	**12**	**107**	ND
IDEM OLQ SOIL LONG TERM RES			**Varies**	**Varies**	**20,000**	**NE**	**400**	**4**
IDEM OLQ SOIL LONG TERM COM			**Varies**	**Varies**	**100,000**	**NE**	**800**	**60**
IDEM OLQ SOIL SHORT TERM EXC			**Varies**	**Varies**	**100,000**	**NE**	**1,000**	**3,000**

All results in mg/Kg = PPM = Parts Per Million
R2 = Risk-based Closure Guide
MS/MSD = Matrix Spike/Matrix Spike Duplicate
ND = Not Detected
NE = No Criteria Established
VOCs = Volatile Organic Compounds
PAHs = Polycyclic Aromatic Hydrocarbons
(BOLD) = Exceeds Detection Limits

Exceeds 2023 R2 Long Term Residential Published Level (Shaded Gray)
Exceeds 2023 R2 Long Term Commercial/Industrial Published Level (Shaded Yellow)
Exceeds 2023 R2 Short Term Excavation Published Level (Shaded Red)

Table 2. Summary of Groundwater Levels and Detected Contaminants of Concern in Groundwater
Bridges Townhomes
Indianapolis, Indiana

Sample ID	Date Sampled	Water Depth (Feet BGS)	All VOCs
P-1 MS/MSD	5/24/23	7.44	ND
P-1 Duplicate	5/24/23	-	ND
P-3	5/24/23	11.04	ND
P-6	5/24/23	9.36	ND
P-7	5/24/23	10.20	ND
Trip Blank	5/24/23	-	ND
2022 R2 Groundwater Published Level			**Varies**

All results in µg/L = PPB = Parts Per Billion
MS/MSD = Matrix Spike/Matrix Spike Duplicate
R2 = Risk-based Closure Guide
BGS = Below ground surface (feet)
ND = Not Detected
VOCs = Volatile Organic Compounds
PAHs = Polycyclic Aromatic Hydrocarbons
(BOLD) = Exceeds Detection Limits
Exceeds 2023 IDEM R2 Long Term Residential Groundwater Published Level (Shaded Blue)

Table 3. Summary of Field Screening Results for Soil Gas
Bridges Townhomes
Indianapolis, Indiana

Sample ID	Date Sampled	PID VOC (PPM)	LEL (%)	O_2 (%)	CO_2 (PPM)	Methane (%)
P-1	5/24/23	0.0	0.0	20.0	0.0	0.0
P-3	5/24/23	0.0	0.0	19.5	0.0	0.0
P-6	5/24/23	0.0	0.0	19.8	0.0	0.0
P-7	5/24/23	0.0	0.0	18.7	0.0	0.0

PPM = Parts Per Million
PID = Photoionization Detector
VOC = Volatile Organic Compour
LEL = Lower Explosive Limits
O_2 = Oxygen
CO_2 = Carbon Dioxide

Table 4. Summary of Contaminants of Concern in Soil Gas
Bridges Townhomes
Indianapolis, Indiana

Sample ID	Date Sampled	VOCs
		Tetrachloroethene
P-1	5/24/23	<31.9
P-3	5/24/23	**111**
P-6	5/24/23	<31.9
P-7	5/24/23	<31.9
2023 R2 Soil-Gas Deep Exterior Residential Published Level		**1,000**

All results in $\mu g/m^3$
R2 = Risk-based Closure Guide
NE = No Criteria Established
ND = Not Detected
VOCs = Volatile Organic Compound
(BOLD) = Exceeds Detection Limits
Concentration Exceeds R2 Residential Soil Gas Published Level (Shaded Yellow)

Appendix A

Soil Probe Logs

Aegis Environmental, Inc.
1013 North Bluff Road
Greenwood, Indiana 46142
Phone: 317-833-9000

Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-1
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	#10 Slot	From: 12'	To: 22'
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	30 feet	Casing Elevation:	NA	Inner Casing:	1" Schedule 40 PVC		
Initial GW ▽	22 feet	GW Level: ▼	7.44 feet	Outer Casing/ Stick up:	NA		

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
		1		80%	0		Asphalt 0 - 3"		
							Black (10YR 2/1) moist sandy loam (Fill) 3" - 1.5'		
					0	+++	1.5 - 9'		
5		2		100%	0	+++	Yellowish brown (10YR 5/4) moist loam	▼	
					0	+++			
10		3		100%	0	+++	9 - 11'		
					0	+++	Brown (10YR 4/3) moist loam with gravel		
15		4		100%	0	+++	11 - 18.2'		
					0	+++	Gray (10YR 5/1) moist loam with gravel Sand lens at 13.5 - 13.7'		
		5		100%	0	+++			
20					0	. . .	18.2 - 19.2		
							Gray (10YR 5/1) slightly wet fine to medium sand		
					0	+++	19.2 - 22'		
		6		100%	0	+++	Gray (10YR 5/1) moist loam with gravel	▽	
25					0	. . .	22 - 22.8		
							Gray (10YR 5/1) wet fine to medium sand		
					0	+++	22.8 - 24'		
		7		100%			Gray (10YR 5/1) moist loam		
					0	. . .	24 - 26.5'		
							Gray (10YR 5/1) wet fine to coarse sand		
30		8		100%	0	+++	26.5 - 30'		
							Gray (10YR 5/1) moist loam with gravel		
35							Boring terminated at 30' Soil gas sample point set at 6.5 - 7.0'		

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Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-2
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	N/A	From:	To:
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	12 feet	Casing Elevation:	NA	Inner Casing:			
Initial GW ▽	Dry	GW Level: ▼		Outer Casing/ Stick up:			

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
							Asphalt 0 - 3"		
		1		100%	0		3" - 4.5'		
					0		Very dark grayish brown (10YR 3/2) mottled strong brown (7.5YR 5/6) moist clay loam		
5					0		4.5 - 10'		
		2		80%	0		Yellowish brown (10YR 5/4) moist loam Yellowish brown sand at 6.5 - 6.7'		
					0				
10		3		100%	0		10 - 12'		
							Gray (10YR 5/1) moist loam with gravel		
							Boring terminated at 12'		
15									
20									
25									
30									
35									

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Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-3
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	#10 Slot	From: 20'	To: 30'
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	30 feet	Casing Elevation:	NA	Inner Casing:	1" Schedule 40 PVC		
Initial GW ▽	25.5 feet	GW Level: ▼	11.04 feet	Outer Casing/ Stick up:	NA		

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Description	Remarks	Well Construction
		1		60%	0	Asphalt 0 - 3"		
					0	3" - 5' Yellowish brown (10YR 5/4) to brown (10YR 4/3) moist clay loam		
5		2		20%	0			
					0	5 - 8' Yellowish brown (10YR 5/4) moist loam Sand seam at 6.1 - 6.3'		
		3		100%	0	8 - 18.8'	▼	
10					0			
		4		100%	0	Grayish brown (10YR 5/2) moist loam with gravel Wet yellowish brown sand lens at 18.5 - 18.8'		
15					0			
		5		100%	0			
20					0	18.8 - 25.5'		
		6		100%	0	Gray (10YR 5/1) moist loam with gravel		
					0			
25		7		100%	0		▽	
					0	Brown (10YR 4/3) moist fine to coarse sand 25.5 - 26'		
						26 - 30' Gray (10YR 5/1) moist loam with gravel		
30		8		100%	0			
35						Boring terminated at 30' Soil gas sample point set at 6.5 - 7.0'		

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Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-4
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	N/A	From:	To:
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	12 feet	Casing Elevation:		Inner Casing:			
Initial GW	Dry	GW Level:		Outer Casing/ Stick up:			

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
							Asphalt 0 - 3"		
		1		60%	0	+++	3" - 4.7'		
					0	+++	Dark grayish brown (2.5YR 4/2) mottled yellowish brown (10YR 5/8) moist clay loam		
5		2		100%	0	+++	4.7 - 8'		
					0	+++	Dark grayish brown (10YR 4/2) moist sandy loam Sand lens at 7.0 - 7.4'		
10		3		100%	0	+++	8 - 11.4'		
					0	+++	Yellowish brown (10YR 5/4) moist loam		
						. . .	Dark gray (10YR5/1) moist loamy fine sand 11.4 11.9'		
						+++	Dark gray (10YR 5/1) moist loam with gravel 11.9 - 12'		
15							Boring terminated at 12'		
20									
25									
30									
35									

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Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-5
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	N/A	From:	To:
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	12 feet	Casing Elevation:		Inner Casing:			
Initial GW ▽	Dry	GW Level: ▼		Outer Casing/ Stick up:			

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
							Asphalt/stone 0 - 4"		
		1		100%	0		4" - 5' Black (10YR 2/1) moist loam (possible fill)		
					0				
5					0	+++	5 - 7.5'		
		2		100%		+++	Yellowish brown (10YR 5/6) moist sandy loam		
					0	+++			
						+++	7.5 - 12'		
					0	+++			
10		3		100%		+++	Yellowish brown (10YR 5/6) moist to dry loam with gravel		
					0	+++			
							Boring terminated at 12'		
15									
20									
25									
30									
35									

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Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-6
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	#10 Slot	From: 14'	To: 24'
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	27 feet	Casing Elevation:	NA	Inner Casing:	1" Schedule 40 PVC		
Initial GW ▽	24.5 feet	GW Level: ▼	9.36 feet	Outer Casing/ Stick up:	NA		

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
					0		Asphalt 0 - 2"		
		1		100%	0	+++	2" - 5' Very dark grayish brown (10YR 3/2) mottled strong brown (10YR3/2) moist loam		
5					0	+++			
		2		100%	0	+++	5 - 7' Brown (10YR 5/3) mottled gray (10YR 5/1) moist loam		
					0	+++	7 - 12.5' Yellowish brown (10YR 5/4) moist loam with gravel	▼	
10		3		100%	0	+++			
					0	+++			
					0		Brown (10YR 4/3) wet fine to coarse sand 12.5 - 13'		
		4		100%	0	+++	13 - 24.5' Gray (10YR 5/1) moist loam with gravel Wet sand at 21.5 - 21.7'		
15					0	+++			
		5		100%	0	+++			
20					0	+++			
		6		100%	0	+++			
					0	+++			
25		7		100%	0	⋰⋱	24.5 - 27' Gray (10YR 5/1) wet fine to coarse sand with gravel	▽	
					0	⋰⋱			
30							Boring terminated at 27' Soil gas sample point set at 6.5 - 7'		
35									

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Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-7
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	#10 Slot	From: 13'	To: 23'
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	24 feet	Casing Elevation:	NA	Inner Casing:	1" Schedule 40 PVC		
Initial GW ▽	19 feet	GW Level: ▼	10.20 feet	Outer Casing/ Stick up:	NA		

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
		1		100%	0		0 - 3' Brown (10YR 4/3) clay loam with bricks (Fill)		
					0				
5		2		100%	0	+++	3 - 5' Yellowish brown (10YR 5/4) clay loam		
					0	+++	5 - 11.5' Yellowish brown (10YR 5/6) moist loam with gravel		
10		3		100%	0	+++		▼	
					0	+++			
							Yellowish brown (10YR5/4) moist loamy sand 11.5 - 12'		
		4		100%	0		12 - 15' Yellowish brown (10YR 5/4) moist sandy loam		
15					0				
						+++	15 - 19' Gray (10YR 5/1) moist loam with gravel Sand lens at 18.2 - 18.3'		
		5		100%	0	+++		▽	
20					0	+++			
							19 - 20.5' Gray (10YR 5/1) wet silty fine sand		
		6		100%	0	+++	20.5 - 24' Gray (10YR 5/1) moist loam with gravel		
					0	+++			
25							Boring terminated at 24'		
							Soil gas sample point at 6.5 - 7.0'		
30									
35									

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Client:	Gratus Development			Aegis Job #	23-091	Boring/ Well #	P-8
Project:	Bridges Townhomes - E St Clair and N Lasalle St			Well Construction Data			
Date Started:	5/23/2023	Date Completed:	5/23/2023	Screen:	N/A	From:	To:
Logged By:	Bruce Bultman	Checked By:	James Hoover	Pack:	N/A	From:	To:
Drilling Co.:	SCS Environmental	Driller:	Philip Weaver #4201	Seal:	N/A	From:	To:
Method:	Direct Push	Equipment:	Geoprobe	Grout:	N/A	From:	To:
Boring Depth:	12 feet	Casing Elevation:		Inner Casing:			
Initial GW ▽	Dry	GW Level: ▼		Outer Casing/ Stick up:			

Depth	Sample	Samp. #	Blow Count	Rec. (%)	PID (ppm)	Lith.	Description	Remarks	Well Construction
		1		40%	0 0		0 - 1' Very dark grayish brown (10YR 3/2) moist loam (Fill) 1 - 4' Very dark grayish brown (10YR 3/2) to black (10YR 2/1) loam with cinders (Fill)		
5		2		80%	0 0	+++	4 - 12' Dark yellowish brown (10YR 4/6) moist loam with gravel		
10		3		70%	0 0	+++			
15							Boring terminated at 12'		
20									
25									
30									
35									

Appendix B

Laboratory Reports

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Mr. Bruce Bultman
Aegis Environmental
1013 N. Bluff Road
Greenwood, IN 46142

June 8, 2023

ENVision Project Number: 2023-1024
Client Project Name: Bridges Townhomes

Dear Mr. Bultman,

Please find the attached analytical report for the samples received May 23, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

ENVision Laboratories, Inc.
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Indianapolis, IN 46239
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Fax: 317.351.8639
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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052723VS

Client Sample ID: P-1 1 1/2'
Envision Sample Number: 23-10056
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 9:50
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.119	0.119	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.119	0.119	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	109%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	05-27-23/19:14		
Analyst Initials	tjg		
Percent Solids:	84%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-1 1 1/2'
Envision Sample Number: 23-10056
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 9:50
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.40	0.40	
Acenaphthylene	< 0.40	0.40	
Anthracene	< 0.40	0.40	
Benzo(a)anthracene	< 0.40	0.40	
Benzo(a)pyrene	< 0.079	0.079	
Benzo(b)fluoranthene	< 0.40	0.40	
Benzo(g,h,i)perylene	< 0.40	0.40	
Benzo(k)fluoranthene	< 0.40	0.40	
Chrysene	< 0.40	0.40	
Dibenzo(a,h)anthracene	< 0.079	0.079	
Fluoranthene	< 0.40	0.40	
Fluorene	< 0.40	0.40	
Indeno(1,2,3-cd)pyrene	< 0.40	0.40	
1-methylnaphthalene	< 0.40	0.40	
2-methylnaphthalene	< 0.40	0.40	
Naphthalene	< 0.079	0.079	
Phenanthrene	< 0.40	0.40	
Pyrene	< 0.40	0.40	
Nitrobenzene-d5 (surrogate)	51%		
2-Fluorobiphenyl (surrogate)	51%		
p-Terphenyl-d14 (surrogate)	57%		
Analysis Date/Time:	05-30-23/17:28		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 84%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-1 1 1/2'	**Sample Collection Date/Time:**	5/23/23	9:50
Envision Sample Number:	23-10056	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**86**	2	
Cadmium	< 2	2	
Chromium	**11**	2	
Lead	**9.5**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 5-30-23/10:46
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/9:50hg
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 84%
All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-1 1 1/2'	**Sample Collection Date/Time:**	5/23/23	9:50
Envision Sample Number:	23-10056	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052723VS

Client Sample ID: P-2 3'
Envision Sample Number: 23-10057
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 11:32
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.114	0.114	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.057	0.057	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.057	0.057	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00032	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.114	0.114	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	110%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	95%		
Analysis Date/Time:	05-27-23/21:32		
Analyst Initials	tjg		
Percent Solids:	88%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-2 3'
Envision Sample Number: 23-10057
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 11:32
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.38	0.38	
Acenaphthylene	< 0.38	0.38	
Anthracene	< 0.38	0.38	
Benzo(a)anthracene	< 0.38	0.38	
Benzo(a)pyrene	< 0.076	0.076	
Benzo(b)fluoranthene	< 0.38	0.38	
Benzo(g,h,i)perylene	< 0.38	0.38	
Benzo(k)fluoranthene	< 0.38	0.38	
Chrysene	< 0.38	0.38	
Dibenzo(a,h)anthracene	< 0.076	0.076	
Fluoranthene	< 0.38	0.38	
Fluorene	< 0.38	0.38	
Indeno(1,2,3-cd)pyrene	< 0.38	0.38	
1-methylnaphthalene	< 0.38	0.38	
2-methylnaphthalene	< 0.38	0.38	
Naphthalene	< 0.076	0.076	
Phenanthrene	< 0.38	0.38	
Pyrene	< 0.38	0.38	
Nitrobenzene-d5 (surrogate)	51%		
2-Fluorobiphenyl (surrogate)	50%		
p-Terphenyl-d14 (surrogate)	54%		
Analysis Date/Time:	05-30-23/17:54		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 88%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-2 3'	**Sample Collection Date/Time:**	5/23/23	11:32
Envision Sample Number:	23-10057	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**42**	2	
Cadmium	< 2	2	
Chromium	**7.4**	2	
Lead	**13**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 5-30-23/10:48
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/9:52hg
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 88%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-2 3'	**Sample Collection Date/Time:**	5/23/23	11:32
Envision Sample Number:	23-10057	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052723VS

Client Sample ID: P-3 4'
Envision Sample Number: 23-10058
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 12:20
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.123	0.123	
Acrolein	< 0.00021	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.062	0.062	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.062	0.062	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0021	0.0021	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00035	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.123	0.123	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.025	0.025	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	94%		
1,2-Dichloroethane-d4 (surrogate)	99%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	05-27-23/19:49		
Analyst Initials	tjg		
Percent Solids:	81%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-3 4'
Envision Sample Number: 23-10058
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 12:20
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.41	0.41	
Acenaphthylene	< 0.41	0.41	
Anthracene	< 0.41	0.41	
Benzo(a)anthracene	< 0.41	0.41	
Benzo(a)pyrene	< 0.082	0.082	
Benzo(b)fluoranthene	< 0.41	0.41	
Benzo(g,h,i)perylene	< 0.41	0.41	
Benzo(k)fluoranthene	< 0.41	0.41	
Chrysene	< 0.41	0.41	
Dibenzo(a,h)anthracene	< 0.082	0.082	
Fluoranthene	< 0.41	0.41	
Fluorene	< 0.41	0.41	
Indeno(1,2,3-cd)pyrene	< 0.41	0.41	
1-methylnaphthalene	< 0.41	0.41	
2-methylnaphthalene	< 0.41	0.41	
Naphthalene	< 0.082	0.082	
Phenanthrene	< 0.41	0.41	
Pyrene	< 0.41	0.41	
Nitrobenzene-d5 (surrogate)	52%		
2-Fluorobiphenyl (surrogate)	51%		
p-Terphenyl-d14 (surrogate)	60%		
Analysis Date/Time:	05-30-23/18:20		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 81%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-3 4'	**Sample Collection Date/Time:**	5/23/23	12:20
Envision Sample Number:	23-10058	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**62**	2	
Cadmium	< 2	2	
Chromium	**7.4**	2	
Lead	**8.6**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 5-30-23/10:51
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/9:53hg
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 81%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-3 4'	**Sample Collection Date/Time:**	5/23/23	12:20
Envision Sample Number:	23-10058	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052723VS

Client Sample ID: P-4 7'
Envision Sample Number: 23-10059
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 13:20
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.111	0.111	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.056	0.056	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.056	0.056	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.111	0.111	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	05-27-23/20:06		
Analyst Initials	tjg		
Percent Solids:	90%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-4 7'
Envision Sample Number: 23-10059
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 13:20
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.37	0.37	
Acenaphthylene	< 0.37	0.37	
Anthracene	< 0.37	0.37	
Benzo(a)anthracene	< 0.37	0.37	
Benzo(a)pyrene	< 0.074	0.074	
Benzo(b)fluoranthene	< 0.37	0.37	
Benzo(g,h,i)perylene	< 0.37	0.37	
Benzo(k)fluoranthene	< 0.37	0.37	
Chrysene	< 0.37	0.37	
Dibenzo(a,h)anthracene	< 0.074	0.074	
Fluoranthene	< 0.37	0.37	
Fluorene	< 0.37	0.37	
Indeno(1,2,3-cd)pyrene	< 0.37	0.37	
1-methylnaphthalene	< 0.37	0.37	
2-methylnaphthalene	< 0.37	0.37	
Naphthalene	< 0.074	0.074	
Phenanthrene	< 0.37	0.37	
Pyrene	< 0.37	0.37	
Nitrobenzene-d5 (surrogate)	52%		
2-Fluorobiphenyl (surrogate)	50%		
p-Terphenyl-d14 (surrogate)	62%		
Analysis Date/Time:	05-30-23/18:46		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 90%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-4 7'	**Sample Collection Date/Time:**	5/23/23	13:20
Envision Sample Number:	23-10059	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**32**	2	
Cadmium	< 2	2	
Chromium	**7.2**	2	
Lead	**3.3**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 5-30-23/10:53
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/9:55hg
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 90%
All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-4 7'	**Sample Collection Date/Time:**	5/23/23	13:20
Envision Sample Number:	23-10059	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052723VS

Client Sample ID: P-5 4'
Envision Sample Number: 23-10060
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 12:00
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.132	0.132	
Acrolein	< 0.00022	0.001	1
Acrylonitrile	< 0.003	0.003	
Benzene	< 0.007	0.007	
Bromobenzene	< 0.007	0.007	
Bromochloromethane	< 0.007	0.007	
Bromodichloromethane	< 0.007	0.007	
Bromoform	< 0.007	0.007	
Bromomethane	< 0.007	0.007	
n-Butanol	< 0.066	0.066	
2-Butanone (MEK)	< 0.013	0.013	
n-Butylbenzene	< 0.007	0.007	
sec-Butylbenzene	< 0.007	0.007	
tert-Butylbenzene	< 0.007	0.007	
Carbon Disulfide	< 0.007	0.007	
Carbon Tetrachloride	< 0.007	0.007	
Chlorobenzene	< 0.007	0.007	
Chloroethane	< 0.007	0.007	
2-Chloroethylvinylether	< 0.066	0.066	
Chloroform	< 0.007	0.007	
Chloromethane	< 0.007	0.007	
2-Chlorotoluene	< 0.007	0.007	
4-Chlorotoluene	< 0.007	0.007	
1,2-Dibromo-3-chloropropane	< 0.0022	0.0022	
Dibromochloromethane	< 0.007	0.007	
1,2-Dibromoethane (EDB)	< 0.00037	0.001	1
Dibromomethane	< 0.007	0.007	
1,2-Dichlorobenzene	< 0.007	0.007	
1,3-Dichlorobenzene	< 0.007	0.007	
1,4-Dichlorobenzene	< 0.007	0.007	
trans-1,4-Dichloro-2-butene	< 0.007	0.007	
Dichlorodifluoromethane	< 0.007	0.007	
1,1-Dichloroethane	< 0.007	0.007	
1,2-Dichloroethane	< 0.007	0.007	
1,1-Dichloroethene	< 0.007	0.007	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.007	0.007	
trans-1,2-Dichloroethene	< 0.007	0.007	
1,2-Dichloropropane	< 0.007	0.007	
1,3-Dichloropropane	< 0.007	0.007	
2,2-Dichloropropane	< 0.007	0.007	
1,1-Dichloropropene	< 0.007	0.007	
1,3-Dichloropropene	< 0.007	0.007	
Ethylbenzene	< 0.007	0.007	
Ethyl methacrylate	< 0.132	0.132	
Hexachloro-1,3-butadiene	< 0.007	0.007	
n-Hexane	< 0.013	0.013	
2-Hexanone	< 0.013	0.013	
Iodomethane	< 0.013	0.013	
Isopropylbenzene (Cumene)	< 0.007	0.007	
p-Isopropyltoluene	< 0.007	0.007	
Methylene chloride	< 0.026	0.026	
4-Methyl-2-pentanone (MIBK)	< 0.013	0.013	
Methyl-tert-butyl-ether	< 0.007	0.007	
n-Propylbenzene	< 0.007	0.007	
Styrene	< 0.007	0.007	
1,1,1,2-Tetrachloroethane	< 0.007	0.007	
1,1,2,2-Tetrachloroethane	< 0.007	0.007	
Tetrachloroethene	< 0.007	0.007	
Toluene	< 0.007	0.007	
1,2,3-Trichlorobenzene	< 0.007	0.007	
1,2,4-Trichlorobenzene	< 0.007	0.007	
1,1,1-Trichloroethane	< 0.007	0.007	
1,1,2-Trichloroethane	< 0.007	0.007	
Trichloroethene	< 0.007	0.007	
Trichlorofluoromethane	< 0.007	0.007	
1,2,3-Trichloropropane	< 0.007	0.007	
1,2,4-Trimethylbenzene	< 0.007	0.007	
1,3,5-Trimethylbenzene	< 0.007	0.007	
Vinyl acetate	< 0.013	0.013	
Vinyl chloride	< 0.003	0.003	
Xylene, M&P	< 0.007	0.007	
Xylene, 0rtho	< 0.007	0.007	
Xylene, Total	< 0.013	0.013	
Dibromofluoromethane (surrogate)	93%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	05-27-23/20:23		
Analyst Initials	tjg		
Percent Solids:	76%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-5 4'
Envision Sample Number: 23-10060
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 12:00
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.44	0.44	
Acenaphthylene	< 0.44	0.44	
Anthracene	< 0.44	0.44	
Benzo(a)anthracene	< 0.44	0.44	
Benzo(a)pyrene	< 0.088	0.088	
Benzo(b)fluoranthene	< 0.44	0.44	
Benzo(g,h,i)perylene	< 0.44	0.44	
Benzo(k)fluoranthene	< 0.44	0.44	
Chrysene	< 0.44	0.44	
Dibenzo(a,h)anthracene	< 0.088	0.088	
Fluoranthene	< 0.44	0.44	
Fluorene	< 0.44	0.44	
Indeno(1,2,3-cd)pyrene	< 0.44	0.44	
1-methylnaphthalene	< 0.44	0.44	
2-methylnaphthalene	< 0.44	0.44	
Naphthalene	< 0.088	0.088	
Phenanthrene	< 0.44	0.44	
Pyrene	< 0.44	0.44	
Nitrobenzene-d5 (surrogate)	39%		
2-Fluorobiphenyl (surrogate)	34%		
p-Terphenyl-d14 (surrogate)	44%		
Analysis Date/Time:	5-30-23/19:12		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 76%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-5 4'	**Sample Collection Date/Time:**	5/23/23	12:00
Envision Sample Number:	23-10060	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 3	3	
Barium	**89**	3	
Cadmium	< 3	3	
Chromium	**8.6**	3	
Lead	**329**	3	
Selenium	< 3	3	
Silver	< 3	3	

Analysis Date/Time: 5-30-23/10:55
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/9:56
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 76%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-5 4'	**Sample Collection Date/Time:**	5/23/23	12:00
Envision Sample Number:	23-10060	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	24.0%		EPA 1684
Percent Solids	76.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052723VS

Client Sample ID: P-6 5'
Envision Sample Number: 23-10061
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 13:45
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.120	0.120	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00034	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.120	0.120	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	107%		
1,2-Dichloroethane-d4 (surrogate)	100%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	05-27-23/20:41		
Analyst Initials	tjg		
Percent Solids:	83%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-6 5'
Envision Sample Number: 23-10061
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 13:45
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.40	0.40	
Acenaphthylene	< 0.40	0.40	
Anthracene	< 0.40	0.40	
Benzo(a)anthracene	< 0.40	0.40	
Benzo(a)pyrene	< 0.080	0.080	
Benzo(b)fluoranthene	< 0.40	0.40	
Benzo(g,h,i)perylene	< 0.40	0.40	
Benzo(k)fluoranthene	< 0.40	0.40	
Chrysene	< 0.40	0.40	
Dibenzo(a,h)anthracene	< 0.080	0.080	
Fluoranthene	< 0.40	0.40	
Fluorene	< 0.40	0.40	
Indeno(1,2,3-cd)pyrene	< 0.40	0.40	
1-methylnaphthalene	< 0.40	0.40	
2-methylnaphthalene	< 0.40	0.40	
Naphthalene	< 0.080	0.080	
Phenanthrene	< 0.40	0.40	
Pyrene	< 0.40	0.40	
Nitrobenzene-d5 (surrogate)	57%		
2-Fluorobiphenyl (surrogate)	52%		
p-Terphenyl-d14 (surrogate)	63%		
Analysis Date/Time:	05-30-23/19:38		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 83%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-6 5'	**Sample Collection Date/Time:**	5/23/23	13:45
Envision Sample Number:	23-10061	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**77**	2	
Cadmium	< 2	2	
Chromium	**8.4**	2	
Lead	**125**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 5-30-23/10:58
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/9:58hg
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 83%
All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-6 5'	**Sample Collection Date/Time:**	5/23/23	13:45
Envision Sample Number:	23-10061	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	17.0%		EPA 1684
Percent Solids	83.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052623VS

Client Sample ID: P-7 5'
Envision Sample Number: 23-10062
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 15:00
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.119	0.119	
Acrolein	< 0.00020	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.060	0.060	
2-Butanone (MEK)	< 0.012	0.012	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.060	0.060	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0020	0.0020	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00033	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.119	0.119	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.012	0.012	
2-Hexanone	< 0.012	0.012	
Iodomethane	< 0.012	0.012	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.024	0.024	
4-Methyl-2-pentanone (MIBK)	< 0.012	0.012	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.012	0.012	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.012	0.012	
Dibromofluoromethane (surrogate)	104%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	05-27-23/13:12		
Analyst Initials	tjg		
Percent Solids:	84%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-7 5'
Envision Sample Number: 23-10062
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 15:00
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.40	0.40	
Acenaphthylene	< 0.40	0.40	
Anthracene	< 0.40	0.40	
Benzo(a)anthracene	< 0.40	0.40	
Benzo(a)pyrene	< 0.079	0.079	
Benzo(b)fluoranthene	< 0.40	0.40	
Benzo(g,h,i)perylene	< 0.40	0.40	
Benzo(k)fluoranthene	< 0.40	0.40	
Chrysene	< 0.40	0.40	
Dibenzo(a,h)anthracene	< 0.079	0.079	
Fluoranthene	< 0.40	0.40	
Fluorene	< 0.40	0.40	
Indeno(1,2,3-cd)pyrene	< 0.40	0.40	
1-methylnaphthalene	< 0.40	0.40	
2-methylnaphthalene	< 0.40	0.40	
Naphthalene	< 0.079	0.079	
Phenanthrene	< 0.40	0.40	
Pyrene	< 0.40	0.40	
Nitrobenzene-d5 (surrogate)	64%		
2-Fluorobiphenyl (surrogate)	60%		
p-Terphenyl-d14 (surrogate)	66%		
Analysis Date/Time:	05-30-23/20:04		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 84%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-7 5'	**Sample Collection Date/Time:**	5/23/23	15:00
Envision Sample Number:	23-10062	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**117**	2	
Cadmium	< 2	2	
Chromium	**10**	2	
Lead	**9.5**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 5-30-23/11:00
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/10:00hg
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 84%
All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-7 5'	**Sample Collection Date/Time:**	5/23/23	15:00
Envision Sample Number:	23-10062	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 052723VS

Client Sample ID: P-8 2'
Envision Sample Number: 23-10063
Sample Matrix: soil

Sample Collection Date/Time: 5/23/23 15:50
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.114	0.114	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.057	0.057	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.057	0.057	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00032	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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8260 continued...

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.114	0.114	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.023	0.023	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	106%		
1,2-Dichloroethane-d4 (surrogate)	110%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	05-27-23/20:58		
Analyst Initials	tjg		
Percent Solids:	88%		

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 8270 PAH
Prep Method: EPA 3550C
Analytical Batch: 053023PS1

Client Sample ID: P-8 2'
Envision Sample Number: 23-10063
Sample Matrix: soil
Sample Collection Date/Time: 5/23/23 15:50
Sample Received Date/Time: 5/23/23 16:40

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.38	0.38	
Acenaphthylene	< 0.38	0.38	
Anthracene	< 0.38	0.38	
Benzo(a)anthracene	< 0.38	0.38	
Benzo(a)pyrene	< 0.076	0.076	
Benzo(b)fluoranthene	< 0.38	0.38	
Benzo(g,h,i)perylene	< 0.38	0.38	
Benzo(k)fluoranthene	< 0.38	0.38	
Chrysene	< 0.38	0.38	
Dibenzo(a,h)anthracene	< 0.076	0.076	
Fluoranthene	< 0.38	0.38	
Fluorene	< 0.38	0.38	
Indeno(1,2,3-cd)pyrene	< 0.38	0.38	
1-methylnaphthalene	< 0.38	0.38	
2-methylnaphthalene	< 0.38	0.38	
Naphthalene	< 0.076	0.076	
Phenanthrene	< 0.38	0.38	
Pyrene	< 0.38	0.38	
Nitrobenzene-d5 (surrogate)	40%		
2-Fluorobiphenyl (surrogate)	36%		
p-Terphenyl-d14 (surrogate)	42%		
Analysis Date/Time:	05-30-23/21:21		
Analyst Initials:	NR		
Date Extracted:	5/30/23		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		

Percent Solids 88%

All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	P-8 2'	**Sample Collection Date/Time:**	5/23/23	15:50
Envision Sample Number:	23-10063	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**111**	2	
Cadmium	< 2	2	
Chromium	**12**	2	
Lead	**107**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 5-30-23/11:12
Analyst Initials: gjd
Date Digested: 5/25/2023
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 053023icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 5/30/23/10:05hg
Hg Analyst Initials: gjd
Date Digested: 5/26/2023
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 053023hg

Percent Solids 88%
All results reported on dry weight basis.

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Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1024

Client Sample ID:	P-8 2'	**Sample Collection Date/Time:**	5/23/23	15:50
Envision Sample Number:	23-10063	**Sample Received Date/Time:**	5/23/23	16:40
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	5/30/23		
Analyst Initials	NR		

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June 08, 2023

Ms. Cheryl Crum
ENVISION LABORATORIES, INC.
1439 Sandlier Cir. W. Drive
Indianapolis, IN 46239

Project ID: 2023-1024
First Environmental File ID: 23-4675
Date Received: June 06, 2023

Dear Ms. Cheryl Crum:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922023-10: effective 03/07/2023 through 02/28/2024.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Joy Geraci
Project Manager

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Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **23-4675**

Project ID: **2023-1024**

Date Received: **June 06, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
23-4675-001	23-10056	5/23/2023 9:50
23-4675-002	23-10057	5/23/2023 11:32
23-4675-003	23-10058	5/23/2023 12:20
23-4675-004	23-10059	5/23/2023 13:20
23-4675-005	23-10060	5/23/2023 12:00
23-4675-006	23-10061	5/23/2023 13:45
23-4675-007	23-10062	5/23/2023 15:00
23-4675-008	23-10063	5/23/2023 15:50

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **23-4675**

Project ID: **2023-1024**

Date Received: **June 06, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10056
Sample No: 23-4675-001

Date Collected: 05/23/23
Time Collected: 9:50
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10057
Sample No: 23-4675-002

Date Collected: 05/23/23
Time Collected: 11:32
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10058
Sample No: 23-4675-003

Date Collected: 05/23/23
Time Collected: 12:20
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10059
Sample No: 23-4675-004

Date Collected: 05/23/23
Time Collected: 13:20
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10060
Sample No: 23-4675-005

Date Collected: 05/23/23
Time Collected: 12:00
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10061
Sample No: 23-4675-006

Date Collected: 05/23/23
Time Collected: 13:45
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10062
Sample No: 23-4675-007

Date Collected: 05/23/23
Time Collected: 15:00
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Analytical Report

Client: ENVISION LABORATORIES, INC.
Project ID: 2023-1024
Sample ID: 23-10063
Sample No: 23-4675-008

Date Collected: 05/23/23
Time Collected: 15:50
Date Received: 06/06/23
Date Reported: 06/08/23

Results are reported on an "as received" basis.

Analyte	Result	R.L.	Units	Flags
Chromium, Hexavalent	**Method: 3060A/7196A**			
Analysis Date: 06/07/23				
Chromium, Hexavalent	< 2.5	2.5	mg/kg	

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Quality Control Summary

Client: ENVISION LABORATORIES, INC. **Lab File ID:** 23-4675

Project ID: 2023-1024

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low High	RPD Limit
Parameter:	Chromium, Hexavalent	**Analytical Method:**	3060A/7196A	**Analytical WS #:**	232505	**Analysis Date:**	6/7/2023
23-4671-002MS	MS	Chromium, Hex (Insoluble)	1660	mg/kg	%R: 92	75 - 125	
	MS	Chromium, Hex (Soluble)	32.3	mg/kg	%R: 46 *	75 - 125	
		MS outside control limits. All other QCIs are within acceptance limits.					
CCB813528	CB	Chromium, Hexavalent	< 0.005	mg/L	0	-	
CCB813529	CB	Chromium, Hexavalent	< 0.005	mg/L	0	-	
CCB813530	CB	Chromium, Hexavalent	< 0.005	mg/L	0	-	
CCVS813531	CCVS	Chromium, Hexavalent	0.122	mg/L	%R: 97.6	90 - 110	
CCVS813532	CCVS	Chromium, Hexavalent	0.122	mg/L	%R: 97.6	90 - 110	
CCVS813533	CCVS	Chromium, Hexavalent	0.125	mg/L	%R: 100	90 - 110	
LCS813534	LCS	Chromium, Hex (Soluble)	1.18	mg/L	%R: 94.4	80 - 120	
LCS813538	LCS	Chromium, Hex (Insoluble)	33.6	mg/L	%R: 104.4	80 - 120	
PB813537	PB	Chromium, Hexavalent	< 0.05	mg/L	0	-	

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

1st

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. [1439 Sadlier Circle West Drive, Indianapolis, IN 46239] Phone: 317-351-8632 Fax: 317-351-8639

Client: **ENVision Labs**	Invoice Address: **SEE ABOVE**	**REQUESTED PARAMETE**		Sample Integrity:
Report Address: **SEE ABOVE**	Project Name: 2023-1024			Cooler Temp: 3.3 °C
				Samples on ice? (Yes) No
				Samples Intact? Yes No
Report To: CHERYL CRUM	Lab contact:			Custody Seal? Yes No
Phone: **SEE ABOVE**	Sampler:			ENVision provided bottles? Yes No
e-mail: **SEE ABOVE**	P.O. #:			Vials free of head space? Yes No N/A
Desired TAT: (Please Circle one)	QA/QC Required: (Circle One)			pH Checked? Yes No N/A
1-day 2-day 3-day	**Level II Level III Level IV**			Method 5035 collection used? YES NO
Std (5 bus. Days)				5035 samples received within 48rhs of collection? Yes No

Sample ID		Matrix	Coll. Date	Coll. Time	HEX CHROMIUM	% MOISTURE	MS/MSD	HCl	HNO3	H2SO4	NaOH	Other	None	ENVision Sample ID
23-10056	P-1 1 1/2'	SL	5/23/23	9:50	X	X							1	23-4675-001
23-10057	P-2 3'	SL	5/23/23	11:32	X	X							1	-002
23-10058	P-3 4'	SL	5/23/23	12:20	X	X							1	-003
23-10059	P-4 7'	SL	5/23/23	13:20	X	X							1	-004
23-10060	P-5 4'	SL	5/23/23	12:00	X	X							1	-005
23-10061	P-6 5'	SL	5/23/23	13:45	X	X							1	-006
23-10062	P-7 5'	SL	5/23/23	15:00	X	X	X						2	-007
23-10063	P-8 2'	SL	5/23/23	15:50	X	X							1	-008

****** RUSH DUE 6/8/23 PLEASE ******

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
LISA DAULTON	6/5/2023	13:00		6/6/23	1200

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
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Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

EPA 8260 Quality Control Data

ENVision Batch Number: 052723VS

Method Blank (MB):	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB)	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	97%		
1,2-Dichloroethane-d4 (surrogate)	104%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	05-27-23/16:22		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD:	LCS Results (ug/kg)	LCS/LCSD Conc. (ug/kg)	LCSD Result (ug/kg)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	53.8	50	44.5	108%	89%	18.9	
1,1-Dichloroethene	48.4	50	54.0	97%	108%	10.9	
trans-1,2-Dichloroethene	45.1	50	50.8	90%	102%	11.9	
Methyl-tert-butyl ether	46.6	50	50.9	93%	102%	8.8	
1,1-Dichloroethane	46.7	50	45.3	93%	91%	3.0	
cis-1,2-Dichloroethene	50.2	50	46.4	100%	93%	7.9	
Chloroform	46.3	50	49.2	93%	98%	6.1	
1,1,1-Trichloroethane	48.5	50	49.6	97%	99%	2.2	
Benzene	47.8	50	50.8	96%	102%	6.1	
Trichloroethene	48.8	50	46.8	98%	94%	4.2	
Toluene	48.0	50	49.9	96%	100%	3.9	
1,1,1,2-Tetrachloroethane	45.4	50	45.5	91%	91%	0.2	
Chlorobenzene	48.7	50	49.7	97%	99%	2.0	
Ethylbenzene	48.8	50	48.7	98%	97%	0.2	
o-Xylene	52.2	50	52.8	104%	106%	1.1	
n-Propylbenzene	49.8	50	50.1	100%	100%	0.6	
Dibromofluoromethane (surrogate)	87%		100%				
1,2-Dichloroethane-d4 (surrogate)	109%		112%				
Toluene-d8 (surrogate)	102%		107%				
4-bromofluorobenzene (surrogate)	90%		96%				
Analysis Date/Time:	05-27-23/15:13		05-27-23/15:30				
Analyst Initials	tjg		tjg				

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EPA 8260 Quality Control Data

ENVision Batch Number: 052623VS

Method Blank (MB):	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB)	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	116%		
1,2-Dichloroethane-d4 (surrogate)	111%		
Toluene-d8 (surrogate)	108%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	05-27-23/05:19		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD:	LCS Results (ug/kg)	LCS/LCSD Conc. (ug/kg)	LCSD Result (ug/kg)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	52.1	50	48.6	104%	97%	7.0	
1,1-Dichloroethene	48.1	50	50.3	96%	101%	4.5	
trans-1,2-Dichloroethene	50.3	50	49.8	101%	100%	1.0	
Methyl-tert-butyl ether	48.8	50	46.1	98%	92%	5.7	
1,1-Dichloroethane	51.7	50	49.0	103%	98%	5.4	
cis-1,2-Dichloroethene	51.4	50	49.4	103%	99%	4.0	
Chloroform	56.8	50	50.3	114%	101%	12.1	
1,1,1-Trichloroethane	57.1	50	54.5	114%	109%	4.7	
Benzene	47.5	50	50.2	95%	100%	5.5	
Trichloroethene	51.5	50	47.1	103%	94%	8.9	
Toluene	55.5	50	51.4	111%	103%	7.7	
1,1,1,2-Tetrachloroethane	50.8	50	47.0	102%	94%	7.8	
Chlorobenzene	51.6	50	50.1	103%	100%	2.9	
Ethylbenzene	51.0	50	50.7	102%	101%	0.6	
o-Xylene	54.4	50	54.2	109%	108%	0.4	
n-Propylbenzene	52.7	50	52.3	105%	105%	0.8	
Dibromofluoromethane (surrogate)	98%		96%				
1,2-Dichloroethane-d4 (surrogate)	104%		97%				
Toluene-d8 (surrogate)	107%		97%				
4-bromofluorobenzene (surrogate)	95%		91%				
Analysis Date/Time:	05-27-23/04:28		05-27-23/04:45				
Analyst Initials	tjg		tjg				

Matrix Spike/Matrix Spike Dup:	Sample Res (ug/kg)	MS Res (ug/kg)	MSD Res (ug/kg)	Spk Conc (ug/kg)	MS Rec	MSD Rec	% D	Flag
Vinyl Chloride	0	49.6	48.5	50	99%	97%	2.2	
1,1-Dichloroethene	0	48.6	45.2	50	97%	90%	7.2	
trans-1,2-Dichloroethene	0	47.0	47.5	50	94%	95%	1.1	
Methyl-tert-butyl ether	0	45.8	46.5	50	92%	93%	1.5	
1,1-Dichloroethane	0	44.9	47.9	50	90%	96%	6.5	
cis-1,2-Dichloroethene	0	45.2	52.4	50	90%	105%	14.8	
Chloroform	0	47.6	49.4	50	95%	99%	3.7	
1,1,1-Trichloroethane	0	47.7	48.3	50	95%	97%	1.2	
Benzene	0	52.0	53.5	50	104%	107%	2.8	
Trichloroethene	0	45.5	46.2	50	91%	92%	1.5	
Toluene	0	48.1	47.9	50	96%	96%	0.4	
1,1,1,2-Tetrachloroethane	0	45.6	45.4	50	91%	91%	0.4	
Chlorobenzene	0	47.9	48.3	50	96%	97%	0.8	
Ethylbenzene	0	47.8	47.8	50	96%	96%	0.0	
o-Xylene	0	51.1	51.1	50	102%	102%	0.0	
n-Propylbenzene	0	48.6	49.0	50	97%	98%	0.8	
Dibromofluoromethane (surrogate)	104%	98%	94%					
1,2-Dichloroethane-d4 (surrogate)	103%	114%	114%					
Toluene-d8 (surrogate)	102%	107%	107%					
4-bromofluorobenzene (surrogate)	89%	92%	94%					
Analysis Date/Time:	05-27-23/13:12	05-27-23/13:30	05-27-23/13:47					
Analyst Initials	tjg	tjg	tjg					
Original Sample Number Spiked:	23-10062							

ENVision Laboratories, Inc.
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EPA 8270 PAH Quality Control Data

ENVision Batch Number: 053023PS1

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Acenaphthene	< 0.33	0.33	
Acenaphthylene	< 0.33	0.33	
Anthracene	< 0.33	0.33	
Benzo(a)anthracene	< 0.33	0.33	
Benzo(a)pyrene	< 0.067	0.067	
Benzo(b)fluoranthene	< 0.33	0.33	
Benzo(g,h,i)perylene	< 0.33	0.33	
Benzo(k)fluoranthene	< 0.33	0.33	
Chrysene	< 0.33	0.33	
Dibenzo(a,h)anthracene	< 0.067	0.067	
Fluoranthene	< 0.33	0.33	
Fluorene	< 0.33	0.33	
Indeno(1,2,3-cd)pyrene	< 0.33	0.33	
1-methylnaphthalene	< 0.33	0.33	
2-methylnaphthalene	< 0.33	0.33	
Naphthalene	< 0.067	0.067	
Phenanthrene	< 0.30	0.30	
Pyrene	< 0.33	0.33	
Nitrobenzene-d5 (surrogate)	33%		
2-Fluorobiphenyl (surrogate)	31%		
p-Terphenyl-d14 (surrogate)	40%		
Analysis Date/Time	05-30-23/15:44		
Analyst Initials	gjd		
Date Extracted	5/30/2023		
Initial Sample Weight:	30 g		
Final Volume	1.0 mL		

8270 QC Continued...

LCS/LCSD:	LCS Results	LCS Concentration	LCSD Results	LCS Recovery	LCSD Recovery	RPD	Flag
Naphthalene	21.7	50	20.1	43%	40%	7.6%	
2-methylnaphthalene	28.1	50	28.1	56%	56%	0.0%	
1-methylnaphthalene	25.3	50	23.9	51%	48%	5.7%	
Acenaphthylene	21.3	50	21.8	43%	44%	2.1%	
Acenaphthene	27.0	50	27.8	54%	56%	2.8%	
Fluorene	20.6	50	22.0	41%	44%	6.3%	
Phenanthrene	28.0	50	27.2	56%	54%	3.1%	
Anthracene	27.2	50	27.8	54%	56%	2.5%	
Fluoranthene	22.7	50	21.1	45%	42%	7.6%	
Pyrene	22.1	50	21.2	44%	42%	3.9%	
Benzo(a)anthracene	26.6	50	26.7	53%	53%	0.5%	
Chrysene	29.9	50	28.2	60%	56%	6.1%	
Benzo(b)fluoranthene	22.3	50	21.7	45%	43%	2.6%	
Benzo(k) fluoranthene	25.0	50	24.0	50%	48%	4.3%	
Benzo(a)pyrene	25.2	50	24.6	50%	49%	2.3%	
Indeno(1,2,3-cd)pyrene	28.0	50	28.9	56%	58%	3.3%	
Dibenzo(a,h)anthracene	27.6	50	25.1	55%	50%	9.6%	
Benzo(g,h,i)perylene	28.5	50	26.1	57%	52%	8.9%	
Nitrobenzene-d5 (surrogate)	48%		52%				
2-Fluorobiphenyl (surrogate)	41%		40%				
p-Terphenyl-d14 (surrogate)	47%		42%				
Analysis Date/Time:	05-30-23/16:10		05-30-23/16:36				
Analyst Initials:	gjd		gjd				
Date Extracted:	5/30/2023		5/30/2023				
Initial Sample Weight:	30 g		30 g				
Final Volume:	1.0 mL		1.0 mL				

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MS/MSD:	Sample Result	MS Result	MSD Result	Spike Conc.	MS Recovery	MSD Recovery	RPD	Flag
Naphthalene	0.00	23.5	24.3	50	47.0%	48.6%	3.3%	
2-methylnaphthalene	0.00	24.1	24.9	50	48.2%	49.8%	3.3%	
1-methylnaphthalene	0.00	22.9	23.7	50	45.8%	47.4%	3.3%	
Acenaphthylene	0.00	23.3	23.5	50	46.7%	47.0%	0.6%	
Acenaphthene	0.00	26.4	25.5	50	52.7%	50.9%	3.4%	
Fluorene	0.00	25.0	24.6	50	50.1%	49.2%	1.7%	
Phenanthrene	0.00	24.8	25.9	50	49.6%	51.7%	4.1%	
Anthracene	0.00	24.0	26.5	50	48.0%	53.0%	9.9%	
Fluoranthene	0.00	19.1	18.9	50	38.2%	37.8%	0.8%	
Pyrene	0.00	29.0	30.2	50	58.1%	60.3%	3.8%	
Benzo(a)anthracene	0.00	26.2	25.8	50	52.4%	51.6%	1.5%	
Chrysene	0.00	25.5	25.5	50	51.0%	51.0%	0.2%	
Benzo(b)fluoranthene	0.00	21.7	22.6	50	43.3%	45.1%	4.0%	
Benzo(k)fluoranthene	0.00	22.5	23.5	50	45.0%	47.1%	4.6%	
Benzo(a)pyrene	0.00	21.5	21.0	50	43.1%	42.0%	2.5%	
Indeno(1,2,3-cd)pyrene	0.00	25.3	25.7	50	50.5%	51.3%	1.6%	
Dibenzo(a,h)anthracene	0.00	25.0	24.8	50	50.0%	49.6%	0.7%	
Benzo(g,h,i)perylene	0.00	25.9	25.2	50	51.8%	50.4%	2.6%	
Nitrobenzene-d5 (surrogate)	64%	55%	54%					
2-Fluorobiphenyl (surrogate)	60%	52%	51%					
p-Terphenyl-d14 (surrogate)	66%	61%	59%					
Analysis Date/Time:	05-30-23/20:04	05-30-23/20:29	05-30-23/20:55					
Analyst Initials:	gjd	gjd	gjd					
Date Extracted:	5/30/2023	5/30/2023	5/30/2023					
Initial Sample Weight:	30 g	30 g	30 g					
Final Volume:	1.0 mL	1.0 mL	1.0 mL					
Original Sample Number Spiked:	23-10062							

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EPA 6010B/7471A Metals Quality Control Data

ENVision Batch Number: 053023icp/053023hg

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Arsenic	< 2	2	
Barium	< 2	2	
Cadmium	< 2	2	
Chromium	< 2	2	
Lead	< 2	2	
Mercury	< 1	1	
Selenium	< 2	2	
Silver	< 2	2	
Analysis Date/Time:	5-30-23/9:12icp/5/30/23/9:42hg		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Arsenic	0.48	0.50	96%	
Barium	0.48	0.50	96%	
Cadmium	0.49	0.50	98%	
Chromium	0.50	0.50	100%	
Lead	0.51	0.50	102%	
Mercury	0.0053	0.005	106%	
Selenium	0.46	0.50	92%	
Silver	0.47	0.50	94%	
Analysis Date/Time:	5-30-23/9:09icp/5/30/23/9:40hg			
Analyst Initials:	gjd			

Matrix Spike/Matrix Spike Dup:	Sample Res (mg/kg)	MS Res (mg/kg)	MSD Res (mg/kg)	Spk Conc (mg/kg)	MS Rec	MSD Rec	% D	Flag
Arsenic	0	0.49	0.48	0.50	98%	96%	2.1	
Barium	1.97	2.52	2.5	0.50	110%	106%	3.7	
Cadmium	0	0.47	0.51	0.50	94%	102%	8.2	
Chromium	0.17	0.59	0.58	0.50	84%	82%	2.4	
Lead	0.16	0.63	0.66	0.50	94%	100%	6.2	
Mercury	0	0.0054	0.0054	0.005	108%	108%	0.0	
Selenium	0	0.42	0.45	0.50	84%	90%	6.9	
Silver	0	0.42	0.43	0.50	84%	86%	2.4	
Analysis Date/Time:	5-30-23/11:00icp/5/30/23/10:00hg	5-30-23/11:02icp/5/30/23/10:01hg	5-30-23/11:05icp/5/30/23/10:03hg					
Analyst Initials:	gjd	gjd	gjd					
Original Sample Number Spiked:	23-10062	23-10062	23-10062					

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Flag Number	Comments
1	Reported value is below the reporting limit but above the MDL.

ENVision Proj# 2023-1024 Page ____ of ____

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: AEC-13 Environmental	Invoice Address:
Report Address: 1013 N. Bluff Greenwood, IN 46142	Project Name: Brothers Townhomes
Report To: Bruce Buchman	Lab Contact:
Phone: 317-833-9000	Sampled by: BB
Fax: 317-833-9001	P.O. Number: 23-091
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

VOC-8260 | PAH-8270 SIM | RCRA Metals | Hold: Cr+6 per B. Buchman CrC 6/5/23

Sample Integrity:

Cooler Temp: 3 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: Yes (No)
ENVision provided bottles: (Yes) No
VOC vials free of head-space: Yes No (N/A)
pH checked? Yes No (N/A)
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix								HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
P-1 1½'	5/23/23	9:50	G	Soil	✓	✓	✓		X									23-10056
P-2 3'		11:32																10057
P-3 4'		12:20																10058
P-4 7'		1:20																10059
P-5 4'		12:00																10060
P-6 5'		1:45																10061
P-7 5'		3:00																10062
P-7 5' MS/MSD		3:00																
P-8 2'		3:30																10063

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Bruce Buchman	5/23/23	4:40		5/23/23	4:40

5035 CHECK-IN SHEET

Client Name: AEGIS ENVIRONMENTAL ENVision project#: 2023-1024

Cooler Temp: 3°C

Method 5035A used: YES X NO □

ENVision provided tared vials w/stir bars & Terra Core T-handles: YES X NO □

5035A samples were received within 48 hrs of collection: YES X NO □

5035A samples were frozen within 48 hrs of collection by lab: YES X NO □
If NO, did client freeze samples? YES □ NO □

5035ATable A.1 Reference: Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then frozen to < -7°C upon laboratory receipt.

Methanol was added to a vial from each sample for Medium-Level dilution within 48 hrs of collection: YES X NO □

5035ATable A.1 Reference: Sample is extruded into an empty sealed vial and cooled to 4° ± 2°C for no more than 48 hours then preserved with methanol upon laboratory receipt.

Performed by/Date: LISA DAULTON 05-23-23

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Mr. Bruce Bultman
Aegis Environmental
1013 N. Bluff Road
Greenwood, IN 46142

June 6, 2023

ENVision Project Number: 2023-1031
Client Project Name: Bridges Townhomes

Dear Mr. Bultman,

Please find the attached analytical report for the samples received May 24, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

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Analytical Report

Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1031

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 052623VW

Client Sample ID: P-1 WATER
Envision Sample Number: 23-10086
Sample Matrix: water
Sample Collection Date/Time: 5/24/23 8:35
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	112%		
1,2-Dichloroethane-d4 (surrogate)	101%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	94%		
Analysis Date/Time:	5-27-23/09:37		
Analyst Initials	tjg		

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Analytical Report

Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1031

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 052623VW

Client Sample ID: P-D
Envision Sample Number: 23-10087
Sample Matrix: water
Sample Collection Date/Time: 5/24/23 8:35
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	119%		
1,2-Dichloroethane-d4 (surrogate)	111%		
Toluene-d8 (surrogate)	105%		
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	5-27-23/07:54		
Analyst Initials	tjg		

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Analytical Report

Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1031

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 052623VW

Client Sample ID: TRIP BLANK
Envision Sample Number: 23-10088
Sample Matrix: water

Sample Collection Date/Time: 5/24/23
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Analytical Report

8260 continued…

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	114%		
1,2-Dichloroethane-d4 (surrogate)	110%		
Toluene-d8 (surrogate)	104%		
4-bromofluorobenzene (surrogate)	91%		
Analysis Date/Time:	5-27-23/05:54		
Analyst Initials	tjg		

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ENVISION

Analytical Report

Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1031

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 052623VW

Client Sample ID: P-3
Envision Sample Number: 23-10089
Sample Matrix: water
Sample Collection Date/Time: 5/24/23 9:30
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued…

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	114%		
1,2-Dichloroethane-d4 (surrogate)	110%		
Toluene-d8 (surrogate)	102%		
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	5-27-23/08:11		
Analyst Initials	tjg		

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Analytical Report

Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1031

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 052623VW

Client Sample ID: P-6
Envision Sample Number: 23-10090
Sample Matrix: water
Sample Collection Date/Time: 5/24/23 11:07
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	117%		
1,2-Dichloroethane-d4 (surrogate)	111%		
Toluene-d8 (surrogate)	105%		
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	5-27-23/08:28		
Analyst Initials	tjg		

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Analytical Report

Client Name: AEGIS ENVIRONMENTAL

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

ENVision Project Number: 2023-1031

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 052623VW

Client Sample ID: P-7
Envision Sample Number: 23-10091
Sample Matrix: water
Sample Collection Date/Time: 5/24/23 10:21
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	124%		
1,2-Dichloroethane-d4 (surrogate)	107%		
Toluene-d8 (surrogate)	103%		
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	5-27-23/08:46		
Analyst Initials	tjg		

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EPA 8260 Quality Control Data

ENVision Batch Number: 052623VW

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	116%		
1,2-Dichloroethane-d4 (surrogate)	111%		
Toluene-d8 (surrogate)	108%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	5-27-23/05:19		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	52.1	50	48.6	104%	97%	7.0	
1,1-Dichloroethene	48.1	50	50.3	96%	101%	4.5	
trans-1,2-Dichloroethene	50.3	50	49.8	101%	100%	1.0	
Methyl-tert-butyl-ether	48.8	50	46.1	98%	92%	5.7	
1,1-Dichloroethane	51.7	50	49.0	103%	98%	5.4	
cis-1,2-Dichloroethene	51.4	50	46.4	103%	93%	10.2	
Chloroform	56.8	50	50.3	114%	101%	12.1	
1,1,1-Trichloroethane	57.1	50	54.5	114%	109%	4.7	
Benzene	47.5	50	50.2	95%	100%	5.5	
Trichloroethene	51.5	50	47.1	103%	94%	8.9	
Toluene	55.5	50	51.4	111%	103%	7.7	
1,1,1,2-Tetracholorethane	50.8	50	47.0	102%	94%	7.8	
Chlorobenzene	51.6	50	50.1	103%	100%	2.9	
Ethylbenzene	51.0	50	50.7	102%	101%	0.6	
o-Xylene	54.4	50	54.2	109%	108%	0.4	
n-Propylbenzene	52.7	50	52.3	105%	105%	0.8	
Dibromofluoromethane (surrogate)	99%		96%				
1,2-Dichloroethane-d4 (surrogate)	104%		97%				
Toluene-d8 (surrogate)	107%		97%				
4-bromofluorobenzene (surrogate)	95%		91%				
Analysis Date/Time:	5-27-23/04:28		5-27-23/04:45				
Analyst Initials	tjg		tjg				

Matrix Spike/Matrix Spike Dup:	Sample Results (ug/L)	MS Res (ug/L)	MSD Res (ug/L)	Spk Conc (ug/L)	MS Rec	MSD Rec	% D	Flag
Vinyl Chloride	0.0	47.2	47.3	50	94%	95%	0.2	
1,1-Dichloroethene	0.0	48.0	47.4	50	96%	95%	1.3	
trans-1,2-Dichloroethene	0.0	49.2	45.5	50	98%	91%	7.8	
Methyl-tert-butyl-ether	0.0	48.2	47.0	50	96%	94%	2.5	
1,1-Dichloroethane	0.0	48.7	49.2	50	97%	98%	1.0	
cis-1,2-Dichloroethene	0.0	50.5	46.7	50	101%	93%	7.8	
Chloroform	0.0	56.5	51.6	50	113%	103%	9.1	
1,1,1-Trichloroethane	0.0	51.5	55.0	50	103%	110%	6.6	
Benzene	0.0	51.0	50.8	50	102%	102%	0.4	
Trichloroethene	0.0	53.2	49.0	50	106%	98%	8.2	
Toluene	0.0	56.3	53.8	50	113%	108%	4.5	
1,1,1,2-Tetracholorethane	0.0	49.7	51.4	50	99%	103%	3.4	
Chlorobenzene	0.0	51.0	52.6	50	102%	105%	3.1	
Ethylbenzene	0.0	50.0	51.6	50	100%	103%	3.1	
o-Xylene	0.0	52.6	56.1	50	105%	112%	6.4	
n-Propylbenzene	0.0	51.1	51.8	50	102%	104%	1.4	
Dibromofluoromethane (surrogate)	112%	105%	92%					
1,2-Dichloroethane-d4 (surrogate)	101%	98%	107%					
Toluene-d8 (surrogate)	98%	108%	102%					
4-bromofluorobenzene (surrogate)	94%	94%	92%					
Analysis Date/Time:	5-27-23/09:37	5-27-23/10:29	5-27-23/10:46					
Analyst Initials	tjg	tjg	tjg					
Originial Sample Number Spiked:	23-10086							

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Flag Number	Comments
1	Reported value is below the reporting limit but above the MDL.

ENVision Proj#: 2023-1031 Page ____ of ____

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: AEGIS Environmental	Invoice Address: Same
Report Address: 1013 N. Bluff Greenwood, IN	Project Name: Bridges Townhomes
Report To: Bryce Bellman	Lab Contact:
Phone: 317-533-9000	Sampled by: BB
Fax: 317-533-9001	P.O. Number: 23-091
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

VOC-8260

Sample Integrity:

Cooler Temp: 5 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: Yes (No)
ENVision provided bottles: (Yes) No
VOC vials free of head-space: (Yes) No N/A
pH checked? (Yes) No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix								HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
P-1 Water	5/24/23	8:35	G	Water	✓													23-10086
P-1 D	5/24/23	8:35		Water	✓													10087
P-1 MS/MSD	5/24/23	8:35		Water	✓													
TRIP BLANK				Water	✓													10088
P-3	5/24/23	9:30		Water	✓													10089
P-4	5/24/23	11:07		Water	✓													10090
P-7	5/24/23	10:21		Water	✓													10091

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
	5/24/23	11:46		5-24-23	11:46

EnvisionAir
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Indianapolis, IN 46239
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Fax: 317-351-0882
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Mr. Bruce Bultman
Aegis Environmental
1013 N. Bluff Road
Greenwood, IN 46142

June 8, 2023

EnvisionAir Project Number: 2023-270
Client Project Name: Bridges Townhomes

Dear Mr. Bultman,

Please find the attached analytical report for the samples received May 24, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

EnvisionAir
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Client Name: AEGIS ENV

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

EnvisionAir Project Number: 2023-270

Sample Summary

Canister Pressure / Vacuum

Laboratory Sample Number:	Sample Description:	Matrix:	START Date Collected:	START Time Collected:	End Date Collected:	End Time Collected:	Date Received:	Time Received	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)
23-1379	P-1	A	5/24/23	8:50	5/24/23	9:10	5/24/23	11:46	-28	-4	-4
23-1380	P-3	A	5/24/23	9:23	5/24/23	9:30	5/24/23	11:46	-30	-2	-2
23-1381	P-6	A	5/24/23	10:52	5/24/23	11:14	5/24/23	11:46	-28	-4	-4
23-1382	P-7	A	5/24/23	10:26	5/24/23	10:35	5/24/23	11:46	-30	-3	-3

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Client Name: AEGIS ENV

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

EnvisionAir Project Number: 2023-270

Analytical Method: TO-15
Analytical Batch: 053023CAIR

Client Sample ID: P-1
EnvisionAir Sample Number: 23-1379
Sample Matrix: AIR

Sample Collection START Date/Time: 5/24/23 8:50
Sample Collection END Date/Time: 5/24/23 9:10
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	5-30-23/19:35		
Analyst Initials	tjg		

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Client Name: AEGIS ENV

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

EnvisionAir Project Number: 2023-270

Analytical Method: TO-15
Analytical Batch: 053023CAIR

Client Sample ID: P-3
EnvisionAir Sample Number: 23-1380
Sample Matrix: AIR

Sample Collection START Date/Time: 5/24/23 9:23
Sample Collection END Date/Time: 5/24/23 9:30
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	**111**	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	5-30-23/20:12		
Analyst Initials	tjg		

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Client Name: AEGIS ENV

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

EnvisionAir Project Number: 2023-270

Analytical Method: TO-15
Analytical Batch: 053023CAIR

Client Sample ID: P-6
EnvisionAir Sample Number: 23-1381
Sample Matrix: AIR

Sample Collection START Date/Time: 5/24/23 10:52
Sample Collection END Date/Time: 5/24/23 11:14
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	98%		
Analysis Date/Time:	5-30-23/20:48		
Analyst Initials	tjg		

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Client Name: AEGIS ENV

Project ID: BRIDGES TOWNHOMES

Client Project Manager: BRUCE BULTMAN

EnvisionAir Project Number: 2023-270

Analytical Method: TO-15
Analytical Batch: 053023CAIR

Client Sample ID: P-7
EnvisionAir Sample Number: 23-1382
Sample Matrix: AIR

Sample Collection START Date/Time: 5/24/23 10:26
Sample Collection END Date/Time: 5/24/23 10:35
Sample Received Date/Time: 5/24/23 11:46

Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
4-Ethyltoluene	< 4920	4920	
4-Methyl-2-pentanone (MIBK)	< 20500	20500	
1,1,1-Trichloroethane	< 5460	5460	
1,1,2,2-Tetrachloroethane	< 3.36	3.36	1
1,1,2-Trichloroethane	< 2.10	2.10	1
1,1-Dichloroethane	< 40.5	40.5	
1,1-Dichloroethene	< 1980	1980	
1,2,4-Trichlorobenzene	< 7.42	7.42	
1,2,4-Trimethylbenzene	< 49.2	49.2	
1,2-dibromoethane (EDB)	< 0.32	0.32	1
1,2-Dichlorobenzene	< 601	601	
1,2-Dichloroethane	< 4.05	4.05	
1,2-Dichloropropane	< 4.62	4.62	
1,3,5-Trimethylbenzene	< 49.2	49.2	
1,3-Butadiene	< 2.21	2.21	
1,3-Dichlorobenzene	< 601	601	
1,4-Dichlorobenzene	< 6.01	6.01	
1,4-Dioxane	< 18.0	18.0	
2-Butanone (MEK)	< 29500	29500	
2-Hexanone	< 205	205	
Acetone	< 23800	23800	
Benzene	< 16.0	16.0	
Benzyl Chloride	< 4.14	4.14	1
Bromodichloromethane	< 5.36	5.36	1
Bromoform	< 103	103	
Bromomethane	< 38.8	38.8	
Carbon Disulfide	< 3110	3110	
Carbon Tetrachloride	< 6.29	6.29	
Chlorobenzene	< 230	230	
Chloroethane	< 132	132	

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Compounds	Sample Results ug/m³	Reporting Limit ug/m³	Flag
Chloroform	< 8.30	8.30	
Chloromethane	< 206	206	
cis-1,2-Dichloroethene	< 198	198	
cis-1,3-Dichloropropene	< 45.4	45.4	
Cyclohexane	< 55100	55100	
Dibromochloromethane	< 8.52	8.52	
Dichlorodifluoromethane	< 495	495	
Ethyl Acetate	< 541	541	
Ethylbenzene	< 86.8	86.8	
Hexachloro-1,3-butadiene	< 10.7	10.7	
Isooctane	< 4670	4670	
m,p-Xylene	< 434	434	
Methylene Chloride	< 417	417	
Methyl-tert-butyl ether	< 361	361	
N-Heptane	< 4100	4100	
N-Hexane	< 1760	1760	
Naphthalene	< 5.24	5.24	
o-Xylene	< 434	434	
Propylene	< 1720	1720	
Styrene	< 4260	4260	
Tetrachloroethene	< 31.9	31.9	
Tetrahydrofuran	< 2950	2950	
Toluene	< 37700	37700	
trans-1,2-Dichloroethene	< 396	396	
trans-1,3-Dichloropropene	< 45.4	45.4	
Trichloroethene	< 10.7	10.7	
Trichlorofluoromethane	< 5620	5620	
Vinyl Acetate	< 1760	1760	
Vinyl Bromide	< 4.37	4.37	
Vinyl Chloride	< 12.8	12.8	
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	5-30-23/21:25		
Analyst Initials	tjg		

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Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 053023CAIR

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
4-Ethyltoluene	< 100	100	
4-Methyl-2-pentanone (MIBK)	< 500	500	
1,1,1-Trichloroethane	< 100	100	
1,1,2,2-Tetrachloroethane	< 0.049	0.049	1
1,1,2-Trichloroethane	< 0.038	0.038	1
1,1-Dichloroethane	< 1	1	
1,1-Dichloroethene	< 50	50	
1,2,4-Trichlorobenzene	< 0.1	0.1	
1,2,4-Trimethylbenzene	< 1	1	
1,2-dibromoethane (EDB)	< 0.0041	0.0041	1
1,2-Dichlorobenzene	< 10	10	
1,2-Dichloroethane	< 0.1	0.1	
1,2-Dichloropropane	< 0.1	0.1	
1,3,5-Trimethylbenzene	< 1	1	
1,3-Butadiene	< 0.1	0.1	
1,3-Dichlorobenzene	< 10	10	
1,4-Dichlorobenzene	< 0.1	0.1	
1,4-Dioxane	< 0.5	0.5	
2-Butanone (MEK)	< 1000	1000	
2-Hexanone	< 5	5	
Acetone	< 1000	1000	
Benzene	< 0.5	0.5	
Benzyl Chloride	< 0.08	0.08	1
Bromodichloromethane	< 0.08	0.08	1
Bromoform	< 1	1	
Bromomethane	< 1	1	
Carbon Disulfide	< 100	100	
Carbon Tetrachloride	< 0.1	0.1	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
Chloroform	< 0.17	0.17	
Chloromethane	< 10	10	
cis-1,2-Dichloroethene	< 5	5	
cis-1,3-Dichloropropene	< 1	1	
Cyclohexane	< 1600	1600	
Dibromochloromethane	< 0.1	0.1	
Dichlorodifluoromethane	< 10	10	
Ethyl Acetate	< 15	15	
Ethylbenzene	< 2	2	
Hexachloro-1,3-butadiene	< 0.1	0.1	
Isooctane	< 100	100	
m,p-Xylene	< 10	10	
Methylene Chloride	< 12	12	
Methyl-tert-butyl ether	< 10	10	
N-Heptane	< 100	100	
N-Hexane	< 50	50	
Naphthalene	< 0.1	0.1	
o-Xylene	< 10	10	
Propylene	< 100	100	
Styrene	< 100	100	
Tetrachloroethene	< 0.47	0.47	
Tetrahydrofuran	< 100	100	

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Analytical Report

Method Blank (MB):	MB Results (ppbv)	Reporting Limit (ppbv)	Flags
Toluene	< 1000	1000	
trans-1,2-Dichloroethene	< 10	10	
trans-1,3-Dichloropropene	< 1	1	
Trichloroethene	< 0.2	0.2	
Trichlorofluoromethane	< 100	100	
Vinyl Acetate	< 50	50	
Vinyl Bromide	< 0.1	0.1	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	101%		
Analysis Date/Time:	5-30-23/18:58		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Propylene	10.7	8.38	10	107%	84%	24.3%	2
Dichlorodifluoromethane	9.97	10.7	10	100%	107%	7.1%	
Chloromethane	10.9	10.8	10	109%	108%	0.9%	
Vinyl Chloride	10.2	10	10	102%	100%	2.0%	
1,3-Butadiene	9.93	9.99	10	99%	100%	0.6%	
Bromomethane	10.3	9.92	10	103%	99%	3.8%	
Chloroethane	9.09	10	10	91%	100%	9.5%	
Vinyl Bromide	9.37	9.68	10	94%	97%	3.3%	
Trichlorofluoromethane	10.1	9.65	10	101%	97%	4.6%	
Acetone	9.62	9.75	10	96%	98%	1.3%	
1,1-Dichloroethene	9.01	11.4	10	90%	114%	23.4%	2
Methylene Chloride	9.52	10.1	10	95%	101%	5.9%	
Carbon Disulfide	10.4	11	10	104%	110%	5.6%	
trans-1,2-Dichloroethene	10.4	10.7	10	104%	107%	2.8%	
Methyl-tert-butyl ether	10	10.6	10	100%	106%	5.8%	
1,1-Dichloroethane	10.6	10.4	10	106%	104%	1.9%	
Vinyl Acetate	9.88	11.3	10	99%	113%	13.4%	
N-Hexane	9.76	10.2	10	98%	102%	4.4%	
2-Butanone (MEK)	9.81	9.94	10	98%	99%	1.3%	
cis-1,2-Dichloroethene	10.1	10.3	10	101%	103%	2.0%	
Ethyl Acetate	10.6	10	10	106%	100%	5.8%	
Chloroform	9.51	9.58	10	95%	96%	0.7%	
Tetrahydrofuran	9.62	10	10	96%	100%	3.9%	
1,2-Dichloroethane	8.99	9.62	10	90%	96%	6.8%	
1,1,1-Trichloroethane	8.9	10.5	10	89%	105%	16.5%	
Carbon Tetrachloride	9	9.1	10	90%	91%	1.1%	
Benzene	9.79	10.2	10	98%	102%	4.1%	
Cyclohexane	10	10.2	10	100%	102%	2.0%	
1,2-Dichloropropane	10	10.8	10	100%	108%	7.7%	
Trichloroethene	10.2	10.1	10	102%	101%	1.0%	
Bromodichloromethane	10.5	10.5	10	105%	105%	0.0%	
1,4-Dioxane	9.04	10.3	10	90%	103%	13.0%	
Isooctane	9.94	10.1	10	99%	101%	1.6%	
N-Heptane	9.14	10	10	91%	100%	9.0%	
cis-1,3-Dichloropropene	9.56	9.17	10	96%	92%	4.2%	
4-Methyl-2-pentanone (MIBK)	10.9	9.3	10	109%	93%	15.8%	
trans-1,3-Dichloropropene	10.2	9.55	10	102%	96%	6.6%	
1,1,2-Trichloroethane	9.74	10.1	10	97%	101%	3.6%	
Toluene	10.6	9.77	10	106%	98%	8.1%	
2-Hexanone	10.5	9.63	10	105%	96%	8.6%	
Dibromochloromethane	9.87	9.8	10	99%	98%	0.7%	
1,2-dibromoethane (EDB)	10.8	10.3	10	108%	103%	4.7%	
Tetrachloroethene	10.8	10.2	10	108%	102%	5.7%	
Chlorobenzene	10.7	9.91	10	107%	99%	7.7%	
Ethylbenzene	10.4	9.89	10	104%	99%	5.0%	
m,p-Xylene	22.2	21.1	20	111%	106%	5.1%	
Bromoform	8.98	10.2	10	90%	102%	12.7%	

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Analytical Report

LCS/LCSD	LCS Results (ppbv)	LCSD Results (ppbv)	LCS/D Conc(ppbv)	LCS Rec.	LCSD Rec.	RPD	Flag
Styrene	11.8	10.7	10	118%	107%	9.8%	
1,1,2,2-Tetrachloroethane	10.2	9.77	10	102%	98%	4.3%	
o-Xylene	11.8	10.3	10	118%	103%	13.6%	
4-Ethyltoluene	9.77	10.1	10	98%	101%	3.3%	
1,3,5-Trimethylbenzene	9.84	9.67	10	98%	97%	1.7%	
1,2,4-Trimethylbenzene	9.89	10.1	10	99%	101%	2.1%	
1,3-Dichlorobenzene	9.81	10.3	10	98%	103%	4.9%	
Benzyl Chloride	10.4	9.82	10	104%	98%	5.7%	
1,4-Dichlorobenzene	10.4	10.9	10	104%	109%	4.7%	
1,2-Dichlorobenzene	9.82	10.5	10	98%	105%	6.7%	
1,2,4-Trichlorobenzene	10.4	9.92	10	104%	99%	4.7%	
Naphthalene	10.6	10.5	10	106%	105%	0.9%	
Hexachloro-1,3-butadiene	9.92	10.4	10	99%	104%	4.7%	
4-bromofluorobenzene (surrogate)	97%	103%					
Analysis Date/Time:	5-30-23/17:06	5-30-23/17:45					
Analyst Initials	tjg	tjg					

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Flag Number	Comments
1	Reporting limit is supported by MDL. TJG
2	RPD is biased high, but recoveries are within control. TJG 6/7/23

EnvisionAir Proj#: 2023-270 Page ____ of ____

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: Aegis Environmental	P.O. Number: 23-091
Report Address: 1013 N. Bluff Greenwood IN	Project Name or Number: Bridges Townhomes
Report To: Bruce Bultman	Sampled by: BB
Phone: 317-833-9000	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: Same	Reporting Units needed: (circle) ug/m³ mg/m³ PPBV PPMV
Desired TAT: (Please Circle One) 1 day 2 days 3 days Std (5 bus. days)	Media type: 1LC = 1 Liter Canister, 6LC = 6 Liter Canister, TB = Tedlar Bag, TD = Thermal Desorption Tube

REQUESTED PARAMETERS

TO-15 Full List

TO-15 Short List (Specify in notes)

ENVISIONAIR

Sampling Type:
Soil-Gas: ☐
Sub-Slab: ☐
Indoor-Air: ☐

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Canister Pressure / Vacuum

Air Sample ID	Media Type (see code above)	Coll. Date (Grab/Comp Start)	Coll. Time (Grab/Comp Start)	Coll. Date (Comp. End)	Coll. Time (Comp. End)					Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
P-1	1LC	5/24/23	8:30	5/24/23	9:10	✓				84134	0115	-28	-4	-4	23-1379
P-3	1LC	5/24/23	9:23	5/24/23	9:30	✓				83917	0058	-30	-2	-2	23-1380
P-6	1LC	5/24/23	10:52	5/24/23	11:14	✓				83729		-28	-4	-4	23-1381
P-7	1LC	5/24/23	10:26	5/24/23	10:35	✓				84136	0062	-30	-3	-3	23-1382

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5/24/23	11:46	[signature]	5/24/23	11:46