



ATLAS

PHASE II LIMITED SUBSURFACE INVESTIGATION

EXCESS PARCEL (LA CODE 5302 PARCEL 343)

US-31

WESTFIELD, HAMILTON COUNTY, INDIANA

INDOT DES. NO. 1173407

PREPARED FOR:

Mr. Peter Washburn
Indiana Department of Transportation
100 N. Senate Ave., Room N758-ES
Indianapolis, Indiana 46204

PREPARED BY:

Atlas Technical Consultants LLC
7988 Centerpoint Drive, Suite 100
Indianapolis, Indiana 46256

June 30, 2025



7988 Centerpoint Drive, Suite 100
Indianapolis, Indiana 46256
(317) 849-4990 | oneatlas.com

June 30, 2025

Atlas No. 170DOT0130

Mr. Peter Washburn
Sr. Environmental Manager Supervisor
Indiana Department of Transportation
100 N. Senate Ave., Room N758-ES
Indianapolis, Indiana 46204

**Subject: Phase II Limited Subsurface Investigation
Excess Parcel (LA Code 5302 Parcel 343)
US-31
Westfield, Hamilton County, Indiana
INDOT DES No. 1173407**

Dear Mr. Washburn:

Atlas Technical Consultants LLC (Atlas) is pleased to provide the Indiana Department of Transportation (INDOT) with this report documenting a Phase II Limited Subsurface Investigation for the above-referenced site. This report includes a summary of the work performed, the findings of the investigation, appropriate tables and figures, and our conclusions.

We appreciate the opportunity to be of service to you on this project. Please contact the undersigned Atlas representatives if you have any questions or comments.

Respectfully submitted,

Atlas Technical Consultants LLC

Steve Browning
Project Manager
Direct Line: 317-339-6440
Email: steve.browning@oneatlas.com

Lindsay Perazzo, LPG (IN #2516)
Senior Project Geologist
Direct Line: 317-579-4035
Email: lindsay.perazzo@oneatlas.com

Cc: Tracy Barnes – INDOT LPA and Major Projects Coordinator, SAM Team (TraBarnes@indot.IN.gov)

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1. INTRODUCTION

Atlas Technical Consultants LLC (Atlas) was retained by the Indiana Department of Transportation (INDOT) to conduct a Phase II Limited Subsurface Investigation (LSI) at an INDOT excess parcel (LA Code 5302 Parcel 343) located along US-31, approximately 1.10 miles north of the US-31 and US-32 intersection, in Westfield, Hamilton County, Indiana, herein referred to as “the Site”.

1.1 Site Description

The Site is located in the SE ¼ of Section 25, Township 19 North, Range 3 East of the U.S. Geological Survey (USGS) Westfield and Noblesville, Indiana 7.5-minute Series Topographic Quadrangle Maps. The Site is located in an area of mixed land use consisting primarily of commercial and agricultural properties with some undeveloped land. A Vicinity Map is provided as **Figure 1**.

1.2 Background Information

The INDOT has determined the excess parcel (LA Code 5302 Parcel 343) will not be needed for right-of-way or other transportation purposes in the foreseeable future. Prior to the possible sale of the Site, the INDOT conducted a Red Flag Investigation (RFI). According to information within the RFI, the Site, excess parcel (LA Code 5302 Parcel 343), was listed as a Large Quantity Generator (LQG) of hazardous waste for a one-time disposal in 1995. The Site was identified as Sailboats, Inc., located 18622 North Meridian Street (AI #17530) as well as Portside Marine Sales and Service, Inc. According to a January 4, 1996 letter found in the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet, the Site was a one-time LQG of hazardous waste. Twelve tons of lead contaminated soil were removed as part of a remediation. No other records are available. Based on this information, INDOT requested Atlas complete a LSI to determine the presence or absence of contamination in the soil and groundwater at the Site associated with the LQG listing and unknown past Site operations. A Site Location Map depicting the location of the property of concern is provided as **Figure 2**. A summary of the work performed is outlined below.

2. WORK PERFORMED

Atlas mobilized to the Site on June 4, 2025 to conduct the LSI activities. A Site-specific Health and Safety Plan was reviewed and signed by the field personnel and subcontractors before the initiation of field activities each day. The LSI included the advancement of five soil borings (B-1 through B-5) and the installation of temporary monitoring wells at each soil boring location for the purpose of collecting soil and groundwater samples for laboratory analysis. The soil boring/temporary monitoring well locations are illustrated on **Figure 3**. Details of the LSI are described in the sections below.

2.1 Utility Locate and Geophysical Survey

Prior to the start of the field activities, SCS Environmental Contracting, Inc. (SCS) contacted the Indiana Underground Plant Protection Service (IUPPS) and requested member utilities identify the underground utility locations on-Site and in the rights-of-way surrounding the Site. In addition, Atlas contracted with a private utility locator (American Locating Services, Inc.) to identify

underground utilities within the work areas and clear each boring location. Atlas reviewed the location of marked underground utilities and moved soil boring locations as necessary to avoid potentially contacting underground utilities.

2.2 Soil Sampling

Atlas oversaw SCS during the advancement of five soil borings (B-1 through B-5) at the Site. The soil borings were advanced to termination depths of approximately 20 feet below ground surface (ft-bgs). The borings were initially advanced using a stainless-steel hand auger to maximum depths of approximately 5 ft-bgs to minimize the potential hazards associated with buried utilities. The soil borings were then advanced further and soil samples collected continuously in four-foot intervals to the desired depths using a Geoprobe® direct push unit equipped with the Dual Tube 22 (DT22) sampling system consisting of 2.25-inch outer diameter (OD) outer casings and 1.25-inch OD inner rods. A new plastic internal liner was attached to the end of the inner rod for the collection of each 4-foot long soil sample.

The soil samples were collected in plastic liners that were retrieved at the ground surface. Each soil sample was initially inspected in the field in approximate two-foot intervals. The soil samples were split into two aliquots; one for field headspace analysis and the other for potential laboratory analysis. The aliquots collected for potential laboratory analysis were collected using Terra Core® Samplers (United States Environmental Protection Agency (US EPA) Method 5035A) and laboratory-supplied glass containers and placed in a cooler on ice. The field aliquots were placed into sealable plastic bags and allowed to warm to ambient temperature for headspace analysis. A photo-ionization detector (PID) which measures total photo-ionizable vapors (TPVs) in parts per million (ppm), was used to screen the field aliquots for headspace vapor analysis. An Atlas field scientist classified each soil sample in accordance with the Unified Soil Classification System (USCS), and visually inspected each soil sample in the field for physical evidence of environmental impact such as staining, odors, free product, etc. Soil boring logs documenting the soil classification and field screening results are provided in **Appendix A**.

Two soil samples were retained from each of the soil borings. The samples retained for analysis included: (1) the 2-4 ft-bgs interval, and (2) since there was no evidence of potential impairments (i.e. – elevated PID readings, odor, staining, etc.) nor observed water, then either the interval at the midway point or the interval at the base of the boring. The soil samples chosen for laboratory analysis were then placed into laboratory-supplied sample containers, labeled, packed in an ice-filled cooler, and transported to Pace Analytical Services, LLC (Pace) in Indianapolis, Indiana. For quality control purposes, a laboratory supplied water trip blank accompanied the soil samples within the cooler. All the soil samples were analyzed for volatile organic compounds (VOCs) using US EPA SW-846 Method 8260 and Resource Conservation and Recovery Act (RCRA) 8 metals, excluding arsenic, using US EPA SW-846 Methods 6010/7471.

2.3 Well Installation and Groundwater Sampling

Following the soil sampling, temporary monitoring wells were installed at soil borings B-1 through B-5. The temporary monitoring wells were installed to depths ranging between approximately 17.5 ft-bgs to 19.5 ft-bgs. Each of the temporary monitoring wells was constructed of one-inch diameter polyvinyl chloride (PVC) casing and ten feet of 0.010-inch slotted well screen with the well annulus filled with a sand pack to a depth of approximately two feet above the well screen. Bentonite chips were placed above the sand packs to depths of approximately 0.5 feet below

grade. Details of the construction of the temporary monitoring wells are presented on the boring logs included in **Attachment A**. Following installation, Atlas attempted to collect a groundwater sample from each of the temporary wells installed at soil borings B-1 through B-5. Groundwater was not observed within the temporary monitoring well installed at soil boring B-1; therefore, a groundwater sample was not collected from this well location. One groundwater sample was collected from each of the temporary monitoring wells installed at soil borings B-2 through B-5 using a dedicated bailer. The groundwater samples were placed into laboratory-supplied sample containers, labeled with a unique identification, placed in a cooler packed with ice and transported to Pace in Indianapolis, IN. For quality control purposes, a laboratory-supplied water trip blank accompanied the groundwater samples within the cooler. The groundwater samples retained for laboratory analysis were analyzed for VOCs using US EPA SW-846 Method 8260 and total and dissolved RCRA 8 Metals, excluding arsenic, using US EPA Methods 6010/7470. The groundwater samples submitted for dissolved RCRA 8 Metals analysis were filtered by the laboratory.

Following the completion of sampling activities, the boreholes were abandoned and backfilled with hydrated bentonite chips to ground surface.

2.4 Decontamination Procedures

Sampling equipment and supplies (i.e., gloves, hand augers, etc.) were dedicated to a specific sample location, disposed of after use, or decontaminated between sample collection. All non-dedicated sampling equipment that came in contact with Site media was cleaned using a solution of non-phosphate detergent followed by a potable water rinse prior to each use and between uses.

2.5 Investigation Derived Waste

Soil cuttings and purged groundwater were containerized in two 55-gallon drums and temporarily staged at the Site for later off-Site disposal.

3. FINDINGS

3.1 Hydrogeology and Soil Screening Results

The soil lithology encountered beneath the surface cover (topsoil) and associated fill material (gravel) generally consisted of silty clay with trace gravel to depths ranging between approximately 3.8 ft-bgs to 10.2 ft-bgs. The silty clay was underlain with sandy clay with trace gravel to the total depths investigated (20 ft-bgs). Groundwater was not observed on the drilling tools at any of the soil boring locations. However, following temporary well installation, the static depth to groundwater in the temporary monitoring wells installed at soil borings B-2 through B-5 ranged from approximately 2.51 to 18.14 feet below the top of the well casings.

Field screening results from soil borings B-1 through B-5 ranged between 0.6 ppm and 2.3 ppm. Staining and hydrocarbon odors were not observed in the soil samples collected during the LSI activities.

3.2 Laboratory Analytical Results

3.2.1 Soil Analytical Results

The soil analytical results were compared to the following IDEM Risk-based Closure Guide (R2) Published Levels (PLs) (effective July 2022, updated March 2025):

- Residential Soil Published Levels (RSPLs),
- Commercial Soil Published Levels (CSPLs), and
- Excavation Soil Published Levels (XSPLs).

Based on the laboratory analytical results, barium, chromium, and lead were detected at concentrations above the laboratory reporting limits but below the IDEM R2 PLs in each of the soil samples collected from the Site. No other contaminants of concern (COCs) were detected in the soil samples collected from the Site. The soil analytical data is summarized in **Table 1** and presented on **Figure 4**.

A copy of the laboratory analytical report and chain-of-custody documentation are presented in **Appendix C**.

3.2.2 Groundwater Analytical Results

The groundwater analytical results were compared to the following IDEM R2 Groundwater Published Levels (GWPLs) (effective July 2022, updated March 2025).

Based on the laboratory analytical results, total concentrations of barium, cadmium, chromium, and lead were detected in exceedance of the IDEM R2 GWPLs in groundwater samples B-3 WT and B-4 WT. A total lead concentration was also detected in exceedance of the IDEM R2 GWPL in groundwater sample B-5 WT. The dissolved cadmium, chromium, and lead concentrations were non-detect, and the dissolved barium concentrations were detected above the laboratory reporting limit but less than the IDEM R2 GWPL in the three groundwater samples (B-3 WT, B-4 WT, and B-5 WT). The presence of total metals in the groundwater samples are likely a result of the sampling method via bailer, which increased the turbidity in the samples, and do not originate from an anthropogenic source. This assumption is supported by the lack of detected dissolved cadmium, chromium, and lead and the reduced dissolved barium concentrations compared to total barium concentrations. No other COCs were detected in the groundwater samples collected

from the Site. The groundwater analytical data is summarized in **Table 2** and presented on **Figure 5**.

A copy of the laboratory analytical report and chain-of-custody documentation are presented in **Appendix C**.

4. CONCLUSIONS

On June 4, 2025, Atlas completed Phase II LSI activities to determine the presence or absence of soil and groundwater contamination in the subsurface at the Site. The LSI included the advancement of five soil borings (B-1 through B-5) with the subsequent collection of ten soil samples. Each of the soil borings were converted into a temporary monitoring well. Groundwater was not observed within the temporary monitoring well installed at soil boring B-1; therefore, a groundwater sample was not collected from this well location. One groundwater sample was collected from each of the temporary monitoring wells installed at soil borings B-2 through B-5.

Based on the soil laboratory analytical results, COCs were not detected at concentrations above the IDEM R2 PLs in the soil samples collected from soil borings B-1 through B-5. The INDOT does not anticipate any construction activities to occur at the Site in the foreseeable future. However, should plans change, based on the analytical results for the soil samples collected from each of the soil borings collected at the Site, excavated soil can either be reutilized in the area that it originated and/or used as fill off-Site per the IDEM Uncontaminated Soil Nonrule Policy Document or transported off-Site to a designated landfill as non-hazardous waste.

Based on the groundwater laboratory analytical results, total concentrations of barium, cadmium, chromium, and lead were detected in exceedance of the IDEM R2 GWPLs in groundwater samples B-3 WT and B-4 WT. A total lead concentration was also detected in exceedance of the IDEM R2 GWPL in groundwater sample B-5 WT. The presence of the total metals in the groundwater samples are likely a result of the sampling methods, which increased the turbidity in the samples, and not from an anthropogenic source. This appears to be the case since dissolved metal concentrations were either non-detect or below the IDEM R2 GWPLs in the groundwater samples collected at the same temporary monitoring well locations.

The COCs detected in the soil and groundwater samples collected at the Site are not present at concentrations that pose a risk to human health or the environment. Site conditions have been assumed to be consistent with the results of the investigation across the excess parcel. However, if conditions are encountered during potential subsurface activities that appear to differ from the results of this investigation (i.e., stained soils, odors, etc.), then additional environmental assessment may be necessary.

TABLES

Table 1
Soil Analytical Data Summary
 Excess Parcel (LA Code 5302 Parcel 343)
 US-31
 Westfield, Hamilton County, Indiana
 INDOT DES #1173407
 Atlas Project No. 170DOT0130

Sample I.D.	Sample Date	Depth	All Reported VOCs	RCRA 8 Metals (mg/kg)							
				Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	
IDEM R2 Residential Soil Published Level			Various	20,000	10	NE	200	3.0	500	500	
IDEM R2 Commercial Soil Published Level			Various	100,000	100	NE	800	3.0	6,000	6,000	
IDEM R2 Excavation Soil Published Level			Various	100,000	200	NE	1,000	3.0	10,000	10,000	
B-1 (2-4)	06/04/25	2-4	ND	126	<0.56	18.8	15	<0.23	<1.1	<0.56	
B-1 (18-20)	06/04/25	18-20	ND	56.3	<0.50	11.5	6.1	<0.24	<0.99	<0.50	
B-2 (2-4)	06/04/25	2-4	ND	171	<0.56	20.6	15.2	<0.25	<1.1	<0.56	
B-2 (18-20)	06/04/25	18-20	ND	52.6	<0.51	10.6	6.8	<0.22	<0.97	<0.51	
B-3 (2-4)	06/04/25	2-4	ND	86	<0.59	19.2	8.2	<0.24	<1.2	<0.59	
B-3 (18-20)	06/04/25	18-20	ND	40	<0.53	10.3	6.5	<0.21	<1.1	<0.53	
B-4 (2-4)	06/04/25	2-4	ND	75.9	<0.61	21.4	12.2	<0.24	<1.2	<0.61	
B-4 (8-10)	06/04/25	8-10	ND	44.1	<0.49	9.3	6.0	<0.22	<0.97	<0.49	
B-5 (2-4)	06/04/25	2-4	ND	74.2	<0.60	19.7	16.6	<0.24	<1.2	<0.60	
B-5 (8-10)	06/04/25	8-10	ND	40.6	<0.53	12.6	7.0	<0.24	<1.1	<0.53	

Notes:

- Results reported in milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm).
 - VOCs = Volatile Organic Compounds
 - RCRA = Resource Conservation and Recovery Act
 - ND = Not Detected
 - NE = Published Level Not Established
 - VOCs analyzed using US EPA SW-846 Method 8260; RCRA 8 Metals, excluding arsenic, analyzed using US EPA SW-846 Methods 6010B/7471A
 - IDEM R2 = Indiana Department of Environmental Management Risk-based Closure Guide (effective July 2022), Published Levels - Updated March 2025
- | | |
|------------------------------|--|
| <i>Italicized</i> | = Concentration reported above IDEM R2 Residential Soil Published Level (RSPL) |
| Bold | = Concentration reported above IDEM R2 Excavation Soil Published Level (XSPL) |
| <u>Bold Underline</u> | = Concentration reported above IDEM R2 Commercial Soil Published Level (CSPL) |

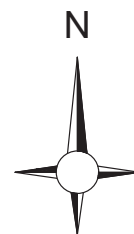
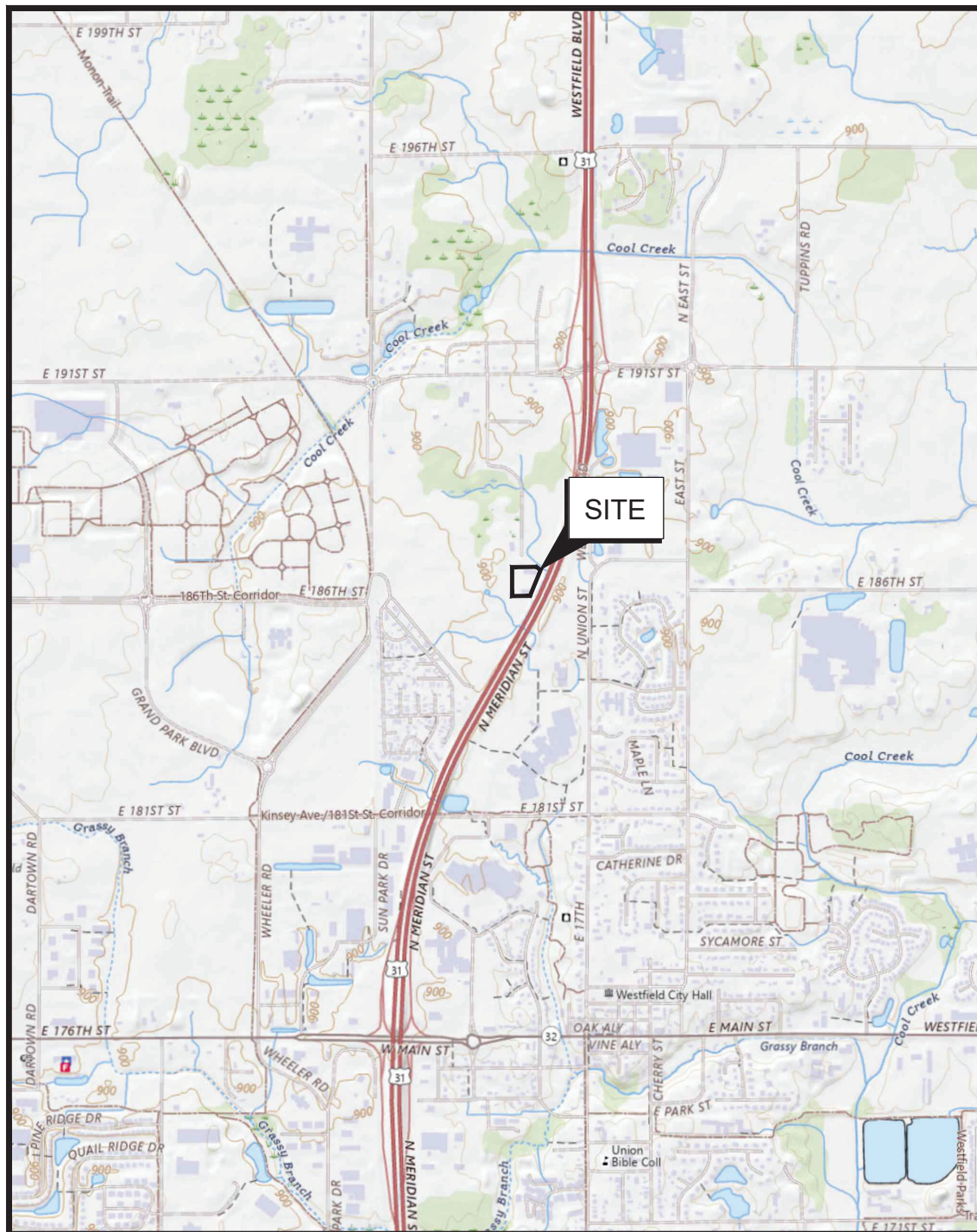
Table 2
Groundwater Analytical Summary
 Excess Parcel (LA Code 5302 Parcel 343)
 US-31
 Westfield, Hamilton County, Indiana
 INDOT DES #1173407
 ATLAS Project Nos. 170DOT0130

Sample I.D.		Sample Date	All Reported VOCs	RCRA 8 Metals (µg/L)													
				Barium	Barium, dissolved	Cadmium	Cadmium, dissolved	Chromium	Chromium, dissolved	Lead	Lead, dissolved	Mercury	Mercury, dissolved	Selenium	Selenium, dissolved	Silver	Silver, dissolved
IDEM R2 GWPL			Various	2,000	2,000	5.0	5.0	100	100	10	10	2.0	2.0	50	50	90	90
B-2 WT		06/04/25	ND	217	72.6	<2.0	<1.0	<10	<20	<10	<5.0	<2.0	<2.0	<10	<10	<10	<10
B-3 WT		06/04/25	ND	2,840	56.3	16.9	<1.0	602	<20	312	<5.0	<6.0	<2.0	12.9	<10	<10	<10
B-4 WT		06/04/25	ND	2,210	68.9	10.2	<1.0	605	<20	264	<5.0	<6.0	<2.0	<10	<10	<10	<10
B-5 WT		06/04/25	ND	335	77.1	<2.0	<1.0	23.5	<20	30.0	<5.0	<2.0	<2.0	<10	<10	<10	<10
Trip Blank		06/04/25	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

- Results reported in micrograms per liter (µg/L) equivalent parts per billion (ppb).
 - IDEM R2 = Indiana Department of Environmental Management Risk-based Closure Guide (updated March 2025)
 - GWPL = Groundwater Published Level
 - RCRA = Resource Conservation and Recovery Act
 - VOCs = Volatile Organic Compounds
 - NA = Not analyzed for that constituent
 - ND - Not Detected
 - NE = Published Level Not Established
 - VOCs analyzed using US EPA SW-846 Method 8260; RCRA 8 Metals, excluding arsenic, analyzed using US EPA SW-846 Methods 6010/7470
- Italics indicate concentration detected below laboratory report limit but above IDEM R2 GWPL*
- | | |
|-------------|---|
| Bold | = Concentration reported above IDEM R2 GWPL |
|-------------|---|

FIGURES



VICINITY MAP

INDOT
EXCESS PARCEL (LA CODE 5302 PARCEL 343)
US - 31
WESTFIELD, INDIANA

Project Number:
170DOT0130

Date:
06/25/2025

Scale:
1" = 2,000'

Drn. By:
JG

Ckd. By:
LP

ATLAS

1

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LEGEND:

--- SITE PROPERTY LINE

— PARCEL LINE

NOTE: ALL LOCATIONS ARE APPROXIMATE



SITE LOCATION MAP

INDOT
EXCESS PARCEL (LA CODE 5302 PARCEL 343)
US - 31
WESTFIELD, INDIANA

Project Number:
170DOT0130

Date:
06/25/2025

Scale:
AS SHOWN

Dwn. By:
JG

Ckd. By:
LP

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SITE PLAN

INDOT
EXCESS PARCEL (LA CODE 5302 PARCEL 343)
US - 31
WESTFIELD, INDIANA

Project Number:
170DOT0130

Date:
06/25/2025

Scale:
AS SHOWN

Drn. By:
JG

Ckd. By:
LP

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3

LEGEND:

-  **B-1**
SOIL BORING/TEMPORARY MONITORING WELL LOCATION
Boring Identification
-  SITE PROPERTY LINE
-  PARCEL LINE

Sample ID	
Sample Date	Sample Depth (ft.)
Compounds of Concern	COCs

NOTE: ALL LOCATIONS ARE APPROXIMATE
SOIL RESULTS ARE MEASURED IN MILLIGRAMS
PER KILOGRAM (mg/kg)
R2PLS = IDEM RISK-BASED CLOSURE GUIDE (R2)
PUBLISHED LEVELS
**CONCENTRATION EXCEEDING THE IDEM R2
RESIDENTIAL SOIL PUBLISHED LEVEL**

B-4		
6/4/2025	2-4'	8-10'
COCs	<R2PLs	<R2PLs

B-5		
6/4/2025	2-4'	8-10'
COCs	<R2PLs	<R2PLs

B-3		
6/4/2025	2-4'	18-20'
COCs	<R2PLs	<R2PLs

B-1		
6/4/2025	2-4'	18-20'
COCs	<R2PLs	<R2PLs

B-2		
6/4/2025	2-4'	18-20'
COCs	<R2PLs	<R2PLs



SCALE: 1" = 80'

SOIL ANALYTICAL MAP

INDOT
EXCESS PARCEL (LA CODE 5302 PARCEL 343)
US - 31
WESTFIELD, INDIANA

Project Number:
170DOT0130

Date:
06/26/2025

Scale:
AS SHOWN

Drn. By:
JG

Ckd. By:
LP

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4

LEGEND:

-  **B-1**
 SOIL BORING/TEMPORARY
 MONITORING WELL LOCATION
 Boring Identification
-  SITE PROPERTY LINE
 PARCEL LINE

Sample ID	
6/4/2025	
Cadmium (Total)	Cd(Tot)
Cadmium (Dissolved)	Cd(Dis)
Barium (Total)	Ba(Tot)
Barium (Dissolved)	Ba(Dis)
Lead (Total)	Pb(Tot)
Lead (Dissolved)	Pb(Dis)
Chromium (Total)	Cr(Tot)
Chromium (Dissolved)	Cr(Dis)
Remaining Compounds of Concern	RCOCs

NOTE: ALL LOCATIONS ARE APPROXIMATE
 GROUNDWATER RESULTS ARE MEASURED IN
 MICROGRAMS PER LITER (µg/L/kg)
 R2PLS = IDEM RISK-BASED CLOSURE GUIDE (R2)
 PUBLISHED LEVELS
 CONCENTRATION EXCEEDING THE IDEM R2
 PUBLISHED LEVEL GROUNDWATER LONG TERM
 RESIDENTIAL

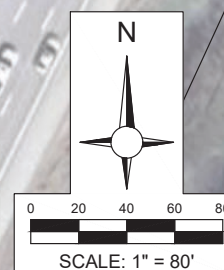
B-4 WT	
6/4/2025	
Ba(Tot)	2,210
Ba(Dis)	68.9
Cd(Tot)	10.2
Cd(Dis)	<1.0
Cr(Tot)	605
Cr(Dis)	<20
Pb(Tot)	264
Pb(Dis)	<5.0
RCOCs	<R2PLs

B-5 WT	
6/4/2025	
Pb(Tot)	30
Pb(Dis)	<5.0
RCOCs	<R2PLs

B-3 WT	
6/4/2025	
Ba(Tot)	2,840
Ba(Dis)	56.3
Cd(Tot)	16.9
Cd(Dis)	<1.0
Cr(Tot)	602
Cr(Dis)	<20
Pb(Tot)	312
Pb(Dis)	<5.0
RCOCs	<R2PLs

B-1	
6/4/2025	
DRY	

B-2 WT	
6/4/2025	
COCs	<R2PLs

**GROUNDWATER ANALYTICAL MAP**

INDOT
 EXCESS PARCEL (LA CODE 5302 PARCEL 343)
 US - 31
 WESTFIELD, INDIANA

Project Number:
 170DOT0130

Date:
 06/26/2025

Scale:
 AS SHOWN

Dwn. By:
 JG

Ckd. By:
 LP

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5



APPENDIX A: SOIL BORING LOGS



CLIENT Indiana Department of Transportation (INDOT)
PROJECT NAME Phase II Limited Subsurface Investigation
PROJECT LOCATION US-31, Excess Parcel #5302-343
Westfield, Indiana

BORING # B-01
JOB # 170DOT0130

DRILLING and SAMPLING INFORMATION

TEST DATA

Date Started 6/4/25 Well Material PVC
Date Completed 6/4/25 Well Diameter 1.0 in.
Drill Foreman SCS Screen Length 10 ft
Inspector P. Schlak Slot Size 0.010 in.
Boring Method Geoprobe Development Method N/A

SOIL CLASSIFICATION	Stratum Depth	Depth Scale	Well Diagram	Sample No.	Recovery (ft)	Groundwater	Total Photoionizable Vapors (ppm)	Sampling Notes
SURFACE ELEVATION								
Grass over TOPSOIL	0.4			1				A hand-auger was used to advance the first five feet of this boring to reduce the possibility of damaging unidentified underground utilities.
Limestone GRAVEL	0.8				1.3		2.3	
Dark brown, slightly moist, SANDY SILT (ML)	1.8			2	1.3		1.8	
Brown, moist, SILTY CLAY (CL) with trace gravel				3	1.0		1.7	The soil samples collected from the 2-4 ft and 18-20 ft intervals were submitted for laboratory analysis.
		5		4	1.0		1.2	
				5	1.5		1.8	
	10.2	10		6	1.5		1.1	
				7	2.0		1.3	
		15		8	2.0		1.1	A temporary well was installed in this boring for the collection of a groundwater sample. Groundwater did not accumulate within temporary well for sample collection. The well was removed and borehole filled with bentonite to surface grade.
- moist below 16.5 ft				9	2.0		2.2	
				10	2.0		2.2	
Bottom of Boring at 20 ft	20.0	20						

TPV - Total Photo-Ionization Vapors
TFV - Total Flame-Ionization Vapors
PPM - Parts Per Million
ND - None Detected
PVC - Polyvinyl Chloride
NA - Not Analyzed

Depth to Groundwater

● Noted on Drilling Tools -- ft.
▽ At Completion (open hole) -- ft.
▽ After -- hours -- ft.
⊠ Cave Depth 18.5 ft.

GP - Geoprobe
HSA - Hollow Stem Augers
HA - Hand Auger
BLR - Bailer
BP - Bladder Pump
PP - Peristaltic Pump
CV - Check Valve



MRINVT Indiana Department of Transportation (INDOT)
SDPxNMT VAJ N Phase II Limited Subsurface Investigation
SDPxNMT RPMATIPV US-31, Excess Parcel #5302-343
Westfield, Indiana

CPDLVO # B-02
xPC # 170DOT0130

EDLRVVO and I AJ SRVVO LVFPDJ ATIPV

TNI T EATA

Eate I tarted 6/4/25 Well J aterial PVC
Eate Mompelated 6/4/25 Well Eiameter 1.0 in.
Erill Foreman SCS I creen Fength 10 ft
Inspector P. Schlak I lot I i9e 0.010 in.
Coring J ethod Geoprobe Eevelopment J ethod N/A

I PIRMRI I IFIMATIPV	I tratum Eeprh	Eeprh I cale	Well Eiagram	I ample Vo.	Decovery /ftB	Oroundwater	Total Shotoionigable kapors ppmB	I ampling Votes
I UDFAMN NRNk ATIPV								
Grass over TPSI PIR	0.3			1				A hand-auger was used to advance the first five feet of this boring to reduce the possibility of damaging unidentified underground utilities.
I AVE and ODAk NR	1.6			2	1.3		2.1	
EarY brown, slightly moist, I LRT(MRA()MRB	3.8			3	1.3		1.8	
Crown, moist, I AVE(MRA()MRB with trace gravel	5			4	0.2		1.3	The soil samples collected from the 2-4 ft and 18-20 ft intervals were submitted for laboratory analysis.
	8.2			5	0.2		1.7	
Rimestone ODAk NR	8.4			7	0.8		1.1	
Crown, slightly moist, I AVE(MRA()MRB with trace gravel	10			6	0.8		1.G	
- darY brown below 13 ft	15			8	2.0		2.2	
	20.0			10	0.5		2.1	
Cottom of Coring at 20 ft	20				0.5		2.0	A temporary well was installed in this boring for the collection of a groundwater sample. Following sampling, the well was removed, and borehole filled with bentonite to surface grade.

TSk - Total Shoto-Ioni9ation kapors
TFk - Total Flame-Ioni9ation kapors
SSJ - Sarts Ser J illion
VE - Vone Eelected
Sk M- Solyvinyl Mhloride
VA - Vot Analy9ed

Eeprh to Oroundwater

● Voted on Erilling Tools -- ft.
▽ At Mompelation)open holeB -- ft.
▽ After 3 hours 3.9 ft.
▽ Mave Eeprh 17.5 ft.

OS - Oeoprobe
HI A - Hollow I tem Augers
HA - Hand Auger
CRD - Cailer
CS - Cladder Sump
SS - Seristaltic Sump
Mk - MhecYk alve



EVN6 T Indiana Department of Transportation (INDOT)
I DSxNET 6 AJ N Phase II Limited Subsurface Investigation
I DSxNET VSEAT6 US-31, Excess Parcel #5302-343
Westfield, Indiana

CSDR P # B-03
xSC # 170DOT0130

YDRV6 P and LAJ I V6 P R6 FSDJ AT6 6

TNLT YATA

Yate L started 6/4/25 Well J aterial PVC
Yate Eompleted 6/4/25 Well Yiameter 1.0 in.
Yrill Foreman SCS L creen Vength 10 ft
Respector P. Schlak L lot L i9e 0.010 in.
Coring J ethod Geoprobe Yevopment J ethod N/A

LSR/EVALL R6 AT6 6	L tratum Yeph	Yeph L cale	Well Yiagram	Lampl 6 o.	Decovery /ftB	Proundwater	Total I hotoionigable kapors ppmB	Sampling notes
LUDFAEN NVNk AT6 6								
Press over TSI LSR	0.3			1			0.7	A hand-auger was used to advance the first five feet of this boring to reduce the possibility of damaging unidentified underground utilities.
Crushed limestone PDAk NV	0.7			2	1.1		0.5	
Yar(brown, slightly moist, L R/TMEVAM)EV Bwith trace gravel				3	1.1		1.2	
- brown and gray and moist below 3.7 ft				4	1.3		1.0	The soil samples collected from the 2-4 ft and 18-20 ft intervals were submitted for laboratory analysis.
				5	1.3		1.0	
				6	1.5		1.3	
				7	1.5		1.6	
				8	2.0		2.1	
				9	2.0		2.2	A temporary well was installed in this boring for the collection of a groundwater sample. Following sampling, the well was removed and borehole filled with bentonite to surface grade.
				10	2.0			
Cottom of Coring at 20 ft	20.0	20						

TI k - Total I hotoionigable kapors
TFk - Total Flame ionigable kapors
I I J - I arts I er J illion
6 Y - 6 one Y etected
I k E - I olyvinyl Ehloride
6 A - 6 ot Analy9ed

Yeph to Proundwater

● 6 oted on Yrilling Tools -- ft.
▽ At Eompletion)open holeB -- ft.
▽ After 2.5 hours 2.5 ft.
▽ Eave Yeph 19.5 ft.

PI - Peoprobe
HLA - Hollow L tem Augers
HA - Hand Auger
CVD - Cailer
CI - Cladder I ump
II - I eristaltic I ump
Ek - Ehec(kalve



RLIDBT Indiana Department of Transportation (INDOT)
PVOxDRT BAJ D Phase II Limited Subsurface Investigation
PVOxDRT LORATIOB US-31, Excess Parcel #5302-343
Westfield, Indiana

) OVIBG # B-04
xO) # 170DOT0130

k VILLIBG and SAJ PLIBG IBFOVJ ATIOB

TDST k ATA

k ate Started 6/4/25 Well J aterial PVC
k ate Rompleted 6/4/25 Well k iiameter 1.0 in.
k rill Foreman SCS Screen Length 10 ft
Inspector P. Schlak Slot Si9e 0.010 in.
) oring J ethod Geoprobe k evelopment J ethod N/A

SOIL RLASSIFIRATIOB	Stratum k eph	k eph Scale	Well k iagram	Sample Bo.	Vecovery (ftM	Groundwater	Total Photoionigable Eapors (ppmM	Sampling Botes
SUVFARD DLDEATIOB								
Grass over TOPSOIL	0.C			8			0.5	A hand-auger was used to advance the first five feet of this boring to reduce the possibility of damaging unidentified underground utilities.
Rushed limestone GVAEDL				2	8.0		8.5	
k arNbrown, slightly moist, SILTY RLAY (RLMwith trace gravel	2.1			C	8.0		8.0	
) rown and gray, moist, SABk Y RLAY (RLMwith trace gravel	4.4	3		4	8.4		0.1	The soil samples collected from the 2-4 ft and 1-80 ft intervals were submitted for laboratory analysis.
				3	8.4	▼	8.2	
- gray and slightly moist below 6.2 ft		80		7	8.3		8.4	
				5	8.3		8.7	
				1	2.0		8.3	
				6	2.0		8.2	A temporary well was installed in this boring for the collection of a groundwater sample. Following sampling, the well was removed and borehole filled with bentonite to surface grade.
				80	2.0		8.7	
) ottom of) oring at 20 ft	20.0	20			2.0			

TPE - Total Photo-Ioni9ation Eapors
TFE - Total Flame-Ioni9ation Eapors
PPJ - Parts Per J illion
Bk - Bone k etected
PER - Polyvinyl Rhloride
BA - Bot Analy9ed

k eph to Groundwater

● Boted on k rilling Tools -- ft.
▼ At Rompletion (open holeM -- ft.
▼ After 2.0 hours 7.4 ft.
▼ Rave k eph 18.0 ft.

GP - Geoprobe
HSA - Hollow Stem Augers
HA - Hand Auger
) LV -) ailer
) P -) ladder Pump
PP - Peristaltic Pump
RE - RhecNEalve



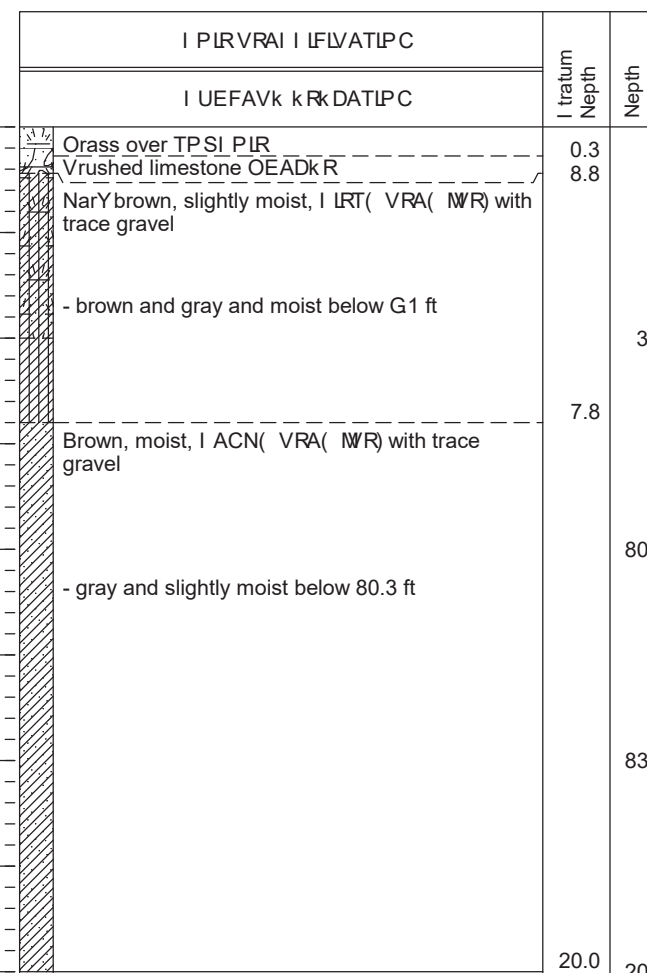
VRk CT Indiana Department of Transportation (INDOT)
SEPxk VT CAJ k Phase II Limited Subsurface Investigation
SEPxk VT RPVATIPC US-31, Excess Parcel #5302-343
Westfield, Indiana

BPEICO # B-05
xPB # 170DOT0130

NEIRICO and I AJ SRICO LCFPEJ ATIPC

TkI T NATA

Nate I started 6/4/25 Well J aterial PVC
Nate Vompleted 6/4/25 Well Niameter 1.0 in.
Nrill Foreman SCS I creen Fength 10 ft
Inspector P. Schlak I lot I i9e 0.010 in.
Boring J ethod Geoprobe Nevelopment J ethod N/A

I PIRVRAI I IFIVATIPC		I tratum Nepth	Nepth I cale	Well Niagram	I ample Co.	Eecoverly (ft)	Oroundwater	Total Shotoion (ppm)	
I UEFAV k Rk DATIPC									
	0.3 8.8			8	8.2		0.5	A hand-auger was used to advance the first five feet of this boring to reduce the possibility of damaging unidentified underground utilities.	
				2	8.2		0.7		
				G	8.4		0.1		
		7.8		4	8.4		8.0		
				3	8.3		8.3		
				6	8.3		8.8		
				7	8.5		8.0		
				1	8.5		0.7		
				5	2.0		8.6		
				80	2.0		0.1		
Bottom of Boring at 20 ft		20.0	20						A temporary well was installed in this boring for the collection of a groundwater sample. Following sampling, the well was removed and borehole filled with bentonite to surface grade.

TSD - Total Shoto-Ioni9ation Dapors
TFD - Total Flame-Ioni9ation Dapors
SSJ - Sarts Ser J illion
CN - Cone Netected
SDV - Solyvinyl Vhloride
CA - Cot Analy9ed

Nepth to Oroundwater
● Coted on Nrilling Tools -- ft.
▽ At Vompletion Mpen hole) -- ft.
▽ After 2.0 hours 18.1 ft.
▽ Vave Nepth 19.0 ft.

OS - Oeoprobe
HI A - Hollow I tem Augers
HA - Hand Auger
BRE - Bailer
BS - Bladder Sump
SS - Seristaltic Sump
VD - VhecY Dalve



APPENDIX B:

LABORATORY ANALYTICAL REPORTS



June 19, 2025

Ms. Lindsay Perazzo
ATC Group Services, LLC
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Dear Ms. Perazzo:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,

A handwritten signature in black ink that reads 'Amanda L. Gaines'.

Amanda Gaines
amanda.gaines@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50403641001	B-1 2-4	Solid	06/04/25 09:30	06/05/25 16:15
50403641002	B-1 18-20	Solid	06/04/25 09:50	06/05/25 16:15
50403641003	B-2 2-4	Solid	06/04/25 10:05	06/05/25 16:15
50403641004	B-2 18-20	Solid	06/04/25 10:18	06/05/25 16:15
50403641005	B-3 2-4	Solid	06/04/25 10:32	06/05/25 16:15
50403641006	B-3 18-20	Solid	06/04/25 10:45	06/05/25 16:15
50403641007	B-4 2-4	Solid	06/04/25 11:21	06/05/25 16:15
50403641008	B-4 8-10	Solid	06/04/25 11:26	06/05/25 16:15
50403641009	B-5 2-4	Solid	06/04/25 11:55	06/05/25 16:15
50403641010	B-5 8-10	Solid	06/04/25 12:00	06/05/25 16:15

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SAMPLE ANALYTE COUNT

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50403641001	B-1 2-4	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641002	B-1 18-20	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641003	B-2 2-4	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641004	B-2 18-20	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641005	B-3 2-4	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641006	B-3 18-20	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641007	B-4 2-4	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641008	B-4 8-10	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641009	B-5 2-4	EPA 6010	ELK, JPK	6	PASI-I
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I
50403641010	B-5 8-10	EPA 6010	ELK, JPK	6	PASI-I

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SAMPLE ANALYTE COUNT

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7471	ILP	1	PASI-I
		EPA 8260	SLB	75	PASI-I
		SM 2540G	BEP	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50403641001	B-1 2-4					
EPA 6010	Barium	126	mg/kg	1.1	06/14/25 03:42	
EPA 6010	Chromium	18.8	mg/kg	1.1	06/17/25 11:45	
EPA 6010	Lead	15.0	mg/kg	1.1	06/14/25 03:42	
SM 2540G	Percent Moisture	18.4	%	0.10	06/06/25 15:20	N2
50403641002	B-1 18-20					
EPA 6010	Barium	56.3	mg/kg	0.99	06/14/25 03:44	
EPA 6010	Chromium	11.5	mg/kg	1.0	06/17/25 11:47	
EPA 6010	Lead	6.1	mg/kg	0.99	06/14/25 03:44	
SM 2540G	Percent Moisture	9.9	%	0.10	06/06/25 15:20	N2
50403641003	B-2 2-4					
EPA 6010	Barium	171	mg/kg	1.1	06/14/25 03:46	
EPA 6010	Chromium	20.6	mg/kg	1.1	06/17/25 11:49	
EPA 6010	Lead	15.2	mg/kg	1.1	06/14/25 03:46	
SM 2540G	Percent Moisture	19.2	%	0.10	06/06/25 15:21	N2
50403641004	B-2 18-20					
EPA 6010	Barium	52.6	mg/kg	1.0	06/14/25 03:55	
EPA 6010	Chromium	10.6	mg/kg	0.97	06/17/25 11:52	
EPA 6010	Lead	6.8	mg/kg	1.0	06/14/25 03:55	
SM 2540G	Percent Moisture	8.4	%	0.10	06/06/25 15:21	N2
50403641005	B-3 2-4					
EPA 6010	Barium	86.0	mg/kg	1.2	06/14/25 03:57	
EPA 6010	Chromium	19.2	mg/kg	1.1	06/17/25 11:54	
EPA 6010	Lead	8.2	mg/kg	1.2	06/14/25 03:57	
SM 2540G	Percent Moisture	17.5	%	0.10	06/06/25 15:21	N2
50403641006	B-3 18-20					
EPA 6010	Barium	40.0	mg/kg	1.1	06/14/25 03:59	
EPA 6010	Chromium	10.3	mg/kg	1.0	06/17/25 11:56	
EPA 6010	Lead	6.5	mg/kg	1.1	06/14/25 03:59	
SM 2540G	Percent Moisture	10.7	%	0.10	06/06/25 15:21	N2
50403641007	B-4 2-4					
EPA 6010	Barium	75.9	mg/kg	1.2	06/14/25 04:02	
EPA 6010	Chromium	21.4	mg/kg	1.1	06/17/25 11:58	
EPA 6010	Lead	12.2	mg/kg	1.2	06/14/25 04:02	
SM 2540G	Percent Moisture	18.3	%	0.10	06/06/25 15:21	N2
50403641008	B-4 8-10					
EPA 6010	Barium	44.1	mg/kg	0.97	06/14/25 04:04	
EPA 6010	Chromium	9.3	mg/kg	0.99	06/17/25 12:00	
EPA 6010	Lead	6.0	mg/kg	0.97	06/14/25 04:04	
SM 2540G	Percent Moisture	10.9	%	0.10	06/06/25 15:21	N2
50403641009	B-5 2-4					
EPA 6010	Barium	74.2	mg/kg	1.2	06/14/25 04:06	
EPA 6010	Chromium	19.7	mg/kg	1.1	06/17/25 12:06	

REPORT OF LABORATORY ANALYSIS

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**SUMMARY OF DETECTION**

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50403641009	B-5 2-4					
EPA 6010	Lead	16.6	mg/kg	1.2	06/14/25 04:06	
SM 2540G	Percent Moisture	19.2	%	0.10	06/06/25 15:57	N2
50403641010	B-5 8-10					
EPA 6010	Barium	40.6	mg/kg	1.1	06/14/25 04:08	
EPA 6010	Chromium	12.6	mg/kg	1.0	06/17/25 12:08	
EPA 6010	Lead	7.0	mg/kg	1.1	06/14/25 04:08	
SM 2540G	Percent Moisture	13.5	%	0.10	06/06/25 15:57	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-1 2-4 Lab ID: 50403641001 Collected: 06/04/25 09:30 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	126	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:42	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	06/10/25 08:22	06/14/25 03:42	7440-43-9	
Chromium	18.8	mg/kg	1.1	1	06/15/25 15:15	06/17/25 11:45	7440-47-3	
Lead	15.0	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:42	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:42	7782-49-2	
Silver	ND	mg/kg	0.56	1	06/10/25 08:22	06/14/25 03:42	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.23	1	06/18/25 21:11	06/19/25 08:38	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	82.6	1		06/10/25 21:53	67-64-1	
Acrolein	ND	ug/kg	82.6	1		06/10/25 21:53	107-02-8	
Acrylonitrile	ND	ug/kg	82.6	1		06/10/25 21:53	107-13-1	
Benzene	ND	ug/kg	4.1	1		06/10/25 21:53	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		06/10/25 21:53	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		06/10/25 21:53	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		06/10/25 21:53	75-27-4	
Bromoform	ND	ug/kg	4.1	1		06/10/25 21:53	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		06/10/25 21:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.7	1		06/10/25 21:53	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		06/10/25 21:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		06/10/25 21:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		06/10/25 21:53	98-06-6	
Carbon disulfide	ND	ug/kg	8.3	1		06/10/25 21:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		06/10/25 21:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		06/10/25 21:53	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		06/10/25 21:53	75-00-3	
Chloroform	ND	ug/kg	4.1	1		06/10/25 21:53	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		06/10/25 21:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		06/10/25 21:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		06/10/25 21:53	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		06/10/25 21:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		06/10/25 21:53	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		06/10/25 21:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		06/10/25 21:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		06/10/25 21:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		06/10/25 21:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	82.6	1		06/10/25 21:53	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		06/10/25 21:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		06/10/25 21:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		06/10/25 21:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		06/10/25 21:53	75-35-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-1 2-4 Lab ID: 50403641001 Collected: 06/04/25 09:30 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		06/10/25 21:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		06/10/25 21:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		06/10/25 21:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		06/10/25 21:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		06/10/25 21:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		06/10/25 21:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		06/10/25 21:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		06/10/25 21:53	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		06/10/25 21:53	100-41-4	
Ethyl methacrylate	ND	ug/kg	82.6	1		06/10/25 21:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		06/10/25 21:53	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		06/10/25 21:53	110-54-3	
2-Hexanone	ND	ug/kg	82.6	1		06/10/25 21:53	591-78-6	
Iodomethane	ND	ug/kg	82.6	1		06/10/25 21:53	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		06/10/25 21:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		06/10/25 21:53	99-87-6	
Methylene Chloride	ND	ug/kg	16.5	1		06/10/25 21:53	75-09-2	
1-Methylnaphthalene	ND	ug/kg	8.3	1		06/10/25 21:53	90-12-0	
2-Methylnaphthalene	ND	ug/kg	8.3	1		06/10/25 21:53	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.7	1		06/10/25 21:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		06/10/25 21:53	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		06/10/25 21:53	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		06/10/25 21:53	103-65-1	
Styrene	ND	ug/kg	4.1	1		06/10/25 21:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		06/10/25 21:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		06/10/25 21:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		06/10/25 21:53	127-18-4	
Toluene	ND	ug/kg	4.1	1		06/10/25 21:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		06/10/25 21:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		06/10/25 21:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		06/10/25 21:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		06/10/25 21:53	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		06/10/25 21:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		06/10/25 21:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		06/10/25 21:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		06/10/25 21:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		06/10/25 21:53	108-67-8	
Vinyl acetate	ND	ug/kg	82.6	1		06/10/25 21:53	108-05-4	
Vinyl chloride	ND	ug/kg	4.1	1		06/10/25 21:53	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		06/10/25 21:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	75-135	1		06/10/25 21:53	1868-53-7	
Toluene-d8 (S)	109	%.	65-148	1		06/10/25 21:53	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	63-132	1		06/10/25 21:53	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-1 2-4		Lab ID: 50403641001		Collected: 06/04/25 09:30		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture		18.4	%	0.10	1		06/06/25 15:20		N2

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-1 18-20 Lab ID: 50403641002 Collected: 06/04/25 09:50 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	56.3	mg/kg	0.99	1	06/10/25 08:22	06/14/25 03:44	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	06/10/25 08:22	06/14/25 03:44	7440-43-9	
Chromium	11.5	mg/kg	1.0	1	06/15/25 15:15	06/17/25 11:47	7440-47-3	
Lead	6.1	mg/kg	0.99	1	06/10/25 08:22	06/14/25 03:44	7439-92-1	
Selenium	ND	mg/kg	0.99	1	06/10/25 08:22	06/14/25 03:44	7782-49-2	
Silver	ND	mg/kg	0.50	1	06/10/25 08:22	06/14/25 03:44	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.24	1	06/18/25 21:11	06/19/25 08:40	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	78.0	1		06/10/25 22:23	67-64-1	
Acrolein	ND	ug/kg	78.0	1		06/10/25 22:23	107-02-8	
Acrylonitrile	ND	ug/kg	78.0	1		06/10/25 22:23	107-13-1	
Benzene	ND	ug/kg	3.9	1		06/10/25 22:23	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		06/10/25 22:23	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		06/10/25 22:23	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		06/10/25 22:23	75-27-4	
Bromoform	ND	ug/kg	3.9	1		06/10/25 22:23	75-25-2	
Bromomethane	ND	ug/kg	3.9	1		06/10/25 22:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	19.5	1		06/10/25 22:23	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		06/10/25 22:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		06/10/25 22:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		06/10/25 22:23	98-06-6	
Carbon disulfide	ND	ug/kg	7.8	1		06/10/25 22:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.9	1		06/10/25 22:23	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		06/10/25 22:23	108-90-7	
Chloroethane	ND	ug/kg	3.9	1		06/10/25 22:23	75-00-3	
Chloroform	ND	ug/kg	3.9	1		06/10/25 22:23	67-66-3	
Chloromethane	ND	ug/kg	3.9	1		06/10/25 22:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		06/10/25 22:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		06/10/25 22:23	106-43-4	
Dibromochloromethane	ND	ug/kg	3.9	1		06/10/25 22:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		06/10/25 22:23	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		06/10/25 22:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		06/10/25 22:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		06/10/25 22:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		06/10/25 22:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	78.0	1		06/10/25 22:23	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.9	1		06/10/25 22:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		06/10/25 22:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		06/10/25 22:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		06/10/25 22:23	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-1 18-20 Lab ID: 50403641002 Collected: 06/04/25 09:50 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		06/10/25 22:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		06/10/25 22:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		06/10/25 22:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		06/10/25 22:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		06/10/25 22:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		06/10/25 22:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		06/10/25 22:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		06/10/25 22:23	10061-02-6	
Ethylbenzene	ND	ug/kg	3.9	1		06/10/25 22:23	100-41-4	
Ethyl methacrylate	ND	ug/kg	78.0	1		06/10/25 22:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		06/10/25 22:23	87-68-3	
n-Hexane	ND	ug/kg	3.9	1		06/10/25 22:23	110-54-3	
2-Hexanone	ND	ug/kg	78.0	1		06/10/25 22:23	591-78-6	
Iodomethane	ND	ug/kg	78.0	1		06/10/25 22:23	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		06/10/25 22:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		06/10/25 22:23	99-87-6	
Methylene Chloride	ND	ug/kg	15.6	1		06/10/25 22:23	75-09-2	
1-Methylnaphthalene	ND	ug/kg	7.8	1		06/10/25 22:23	90-12-0	
2-Methylnaphthalene	ND	ug/kg	7.8	1		06/10/25 22:23	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.5	1		06/10/25 22:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		06/10/25 22:23	1634-04-4	
Naphthalene	ND	ug/kg	3.9	1		06/10/25 22:23	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		06/10/25 22:23	103-65-1	
Styrene	ND	ug/kg	3.9	1		06/10/25 22:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		06/10/25 22:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		06/10/25 22:23	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		06/10/25 22:23	127-18-4	
Toluene	ND	ug/kg	3.9	1		06/10/25 22:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		06/10/25 22:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		06/10/25 22:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		06/10/25 22:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		06/10/25 22:23	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		06/10/25 22:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		06/10/25 22:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		06/10/25 22:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		06/10/25 22:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		06/10/25 22:23	108-67-8	
Vinyl acetate	ND	ug/kg	78.0	1		06/10/25 22:23	108-05-4	
Vinyl chloride	ND	ug/kg	3.9	1		06/10/25 22:23	75-01-4	
Xylene (Total)	ND	ug/kg	7.8	1		06/10/25 22:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	75-135	1		06/10/25 22:23	1868-53-7	
Toluene-d8 (S)	107	%.	65-148	1		06/10/25 22:23	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	63-132	1		06/10/25 22:23	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-1 18-20		Lab ID: 50403641002		Collected: 06/04/25 09:50		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture		9.9	%	0.10	1		06/06/25 15:20		N2

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-2 2-4 Lab ID: 50403641003 Collected: 06/04/25 10:05 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	171	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:46	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	06/10/25 08:22	06/14/25 03:46	7440-43-9	
Chromium	20.6	mg/kg	1.1	1	06/15/25 15:15	06/17/25 11:49	7440-47-3	
Lead	15.2	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:46	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:46	7782-49-2	
Silver	ND	mg/kg	0.56	1	06/10/25 08:22	06/14/25 03:46	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.25	1	06/18/25 21:11	06/19/25 08:52	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	103	1		06/10/25 22:53	67-64-1	
Acrolein	ND	ug/kg	103	1		06/10/25 22:53	107-02-8	
Acrylonitrile	ND	ug/kg	103	1		06/10/25 22:53	107-13-1	
Benzene	ND	ug/kg	5.1	1		06/10/25 22:53	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		06/10/25 22:53	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		06/10/25 22:53	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		06/10/25 22:53	75-27-4	
Bromoform	ND	ug/kg	5.1	1		06/10/25 22:53	75-25-2	
Bromomethane	ND	ug/kg	5.1	1		06/10/25 22:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.7	1		06/10/25 22:53	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		06/10/25 22:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		06/10/25 22:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		06/10/25 22:53	98-06-6	
Carbon disulfide	ND	ug/kg	10.3	1		06/10/25 22:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	1		06/10/25 22:53	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		06/10/25 22:53	108-90-7	
Chloroethane	ND	ug/kg	5.1	1		06/10/25 22:53	75-00-3	
Chloroform	ND	ug/kg	5.1	1		06/10/25 22:53	67-66-3	
Chloromethane	ND	ug/kg	5.1	1		06/10/25 22:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		06/10/25 22:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		06/10/25 22:53	106-43-4	
Dibromochloromethane	ND	ug/kg	5.1	1		06/10/25 22:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		06/10/25 22:53	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		06/10/25 22:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		06/10/25 22:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		06/10/25 22:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		06/10/25 22:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	103	1		06/10/25 22:53	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.1	1		06/10/25 22:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		06/10/25 22:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		06/10/25 22:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		06/10/25 22:53	75-35-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-2 2-4 Lab ID: 50403641003 Collected: 06/04/25 10:05 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		06/10/25 22:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		06/10/25 22:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		06/10/25 22:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		06/10/25 22:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		06/10/25 22:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		06/10/25 22:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		06/10/25 22:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		06/10/25 22:53	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	1		06/10/25 22:53	100-41-4	
Ethyl methacrylate	ND	ug/kg	103	1		06/10/25 22:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		06/10/25 22:53	87-68-3	
n-Hexane	ND	ug/kg	5.1	1		06/10/25 22:53	110-54-3	
2-Hexanone	ND	ug/kg	103	1		06/10/25 22:53	591-78-6	
Iodomethane	ND	ug/kg	103	1		06/10/25 22:53	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		06/10/25 22:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		06/10/25 22:53	99-87-6	
Methylene Chloride	ND	ug/kg	20.6	1		06/10/25 22:53	75-09-2	
1-Methylnaphthalene	ND	ug/kg	10.3	1		06/10/25 22:53	90-12-0	
2-Methylnaphthalene	ND	ug/kg	10.3	1		06/10/25 22:53	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.7	1		06/10/25 22:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		06/10/25 22:53	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		06/10/25 22:53	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		06/10/25 22:53	103-65-1	
Styrene	ND	ug/kg	5.1	1		06/10/25 22:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		06/10/25 22:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		06/10/25 22:53	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		06/10/25 22:53	127-18-4	
Toluene	ND	ug/kg	5.1	1		06/10/25 22:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		06/10/25 22:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		06/10/25 22:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		06/10/25 22:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		06/10/25 22:53	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		06/10/25 22:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		06/10/25 22:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		06/10/25 22:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		06/10/25 22:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		06/10/25 22:53	108-67-8	
Vinyl acetate	ND	ug/kg	103	1		06/10/25 22:53	108-05-4	
Vinyl chloride	ND	ug/kg	5.1	1		06/10/25 22:53	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		06/10/25 22:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	75-135	1		06/10/25 22:53	1868-53-7	
Toluene-d8 (S)	103	%.	65-148	1		06/10/25 22:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	63-132	1		06/10/25 22:53	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-2 2-4		Lab ID: 50403641003		Collected: 06/04/25 10:05		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture		19.2	%	0.10	1		06/06/25 15:21		N2

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-2 18-20 Lab ID: 50403641004 Collected: 06/04/25 10:18 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	52.6	mg/kg	1.0	1	06/10/25 08:22	06/14/25 03:55	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	06/10/25 08:22	06/14/25 03:55	7440-43-9	
Chromium	10.6	mg/kg	0.97	1	06/15/25 15:15	06/17/25 11:52	7440-47-3	
Lead	6.8	mg/kg	1.0	1	06/10/25 08:22	06/14/25 03:55	7439-92-1	
Selenium	ND	mg/kg	1.0	1	06/10/25 08:22	06/14/25 03:55	7782-49-2	
Silver	ND	mg/kg	0.51	1	06/10/25 08:22	06/14/25 03:55	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.22	1	06/18/25 21:11	06/19/25 08:55	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	78.0	1		06/10/25 23:22	67-64-1	
Acrolein	ND	ug/kg	78.0	1		06/10/25 23:22	107-02-8	
Acrylonitrile	ND	ug/kg	78.0	1		06/10/25 23:22	107-13-1	
Benzene	ND	ug/kg	3.9	1		06/10/25 23:22	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		06/10/25 23:22	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		06/10/25 23:22	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		06/10/25 23:22	75-27-4	
Bromoform	ND	ug/kg	3.9	1		06/10/25 23:22	75-25-2	
Bromomethane	ND	ug/kg	3.9	1		06/10/25 23:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	19.5	1		06/10/25 23:22	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		06/10/25 23:22	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		06/10/25 23:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		06/10/25 23:22	98-06-6	
Carbon disulfide	ND	ug/kg	7.8	1		06/10/25 23:22	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.9	1		06/10/25 23:22	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		06/10/25 23:22	108-90-7	
Chloroethane	ND	ug/kg	3.9	1		06/10/25 23:22	75-00-3	
Chloroform	ND	ug/kg	3.9	1		06/10/25 23:22	67-66-3	
Chloromethane	ND	ug/kg	3.9	1		06/10/25 23:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		06/10/25 23:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		06/10/25 23:22	106-43-4	
Dibromochloromethane	ND	ug/kg	3.9	1		06/10/25 23:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		06/10/25 23:22	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		06/10/25 23:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		06/10/25 23:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		06/10/25 23:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		06/10/25 23:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	78.0	1		06/10/25 23:22	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.9	1		06/10/25 23:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		06/10/25 23:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		06/10/25 23:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		06/10/25 23:22	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-2 18-20 Lab ID: 50403641004 Collected: 06/04/25 10:18 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		06/10/25 23:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		06/10/25 23:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		06/10/25 23:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		06/10/25 23:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		06/10/25 23:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		06/10/25 23:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		06/10/25 23:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		06/10/25 23:22	10061-02-6	
Ethylbenzene	ND	ug/kg	3.9	1		06/10/25 23:22	100-41-4	
Ethyl methacrylate	ND	ug/kg	78.0	1		06/10/25 23:22	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		06/10/25 23:22	87-68-3	
n-Hexane	ND	ug/kg	3.9	1		06/10/25 23:22	110-54-3	
2-Hexanone	ND	ug/kg	78.0	1		06/10/25 23:22	591-78-6	
Iodomethane	ND	ug/kg	78.0	1		06/10/25 23:22	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		06/10/25 23:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		06/10/25 23:22	99-87-6	
Methylene Chloride	ND	ug/kg	15.6	1		06/10/25 23:22	75-09-2	
1-Methylnaphthalene	ND	ug/kg	7.8	1		06/10/25 23:22	90-12-0	
2-Methylnaphthalene	ND	ug/kg	7.8	1		06/10/25 23:22	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.5	1		06/10/25 23:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		06/10/25 23:22	1634-04-4	
Naphthalene	ND	ug/kg	3.9	1		06/10/25 23:22	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		06/10/25 23:22	103-65-1	
Styrene	ND	ug/kg	3.9	1		06/10/25 23:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		06/10/25 23:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		06/10/25 23:22	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		06/10/25 23:22	127-18-4	
Toluene	ND	ug/kg	3.9	1		06/10/25 23:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		06/10/25 23:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		06/10/25 23:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		06/10/25 23:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		06/10/25 23:22	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		06/10/25 23:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		06/10/25 23:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		06/10/25 23:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		06/10/25 23:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		06/10/25 23:22	108-67-8	
Vinyl acetate	ND	ug/kg	78.0	1		06/10/25 23:22	108-05-4	
Vinyl chloride	ND	ug/kg	3.9	1		06/10/25 23:22	75-01-4	
Xylene (Total)	ND	ug/kg	7.8	1		06/10/25 23:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	75-135	1		06/10/25 23:22	1868-53-7	
Toluene-d8 (S)	108	%.	65-148	1		06/10/25 23:22	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	63-132	1		06/10/25 23:22	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-2 18-20		Lab ID: 50403641004		Collected: 06/04/25 10:18		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture		8.4	%	0.10	1		06/06/25 15:21		N2

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-3 2-4 Lab ID: 50403641005 Collected: 06/04/25 10:32 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	86.0	mg/kg	1.2	1	06/10/25 08:22	06/14/25 03:57	7440-39-3	
Cadmium	ND	mg/kg	0.59	1	06/10/25 08:22	06/14/25 03:57	7440-43-9	
Chromium	19.2	mg/kg	1.1	1	06/15/25 15:15	06/17/25 11:54	7440-47-3	
Lead	8.2	mg/kg	1.2	1	06/10/25 08:22	06/14/25 03:57	7439-92-1	
Selenium	ND	mg/kg	1.2	1	06/10/25 08:22	06/14/25 03:57	7782-49-2	
Silver	ND	mg/kg	0.59	1	06/10/25 08:22	06/14/25 03:57	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.24	1	06/18/25 21:11	06/19/25 08:57	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	91.9	1		06/10/25 23:52	67-64-1	
Acrolein	ND	ug/kg	91.9	1		06/10/25 23:52	107-02-8	
Acrylonitrile	ND	ug/kg	91.9	1		06/10/25 23:52	107-13-1	
Benzene	ND	ug/kg	4.6	1		06/10/25 23:52	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		06/10/25 23:52	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		06/10/25 23:52	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		06/10/25 23:52	75-27-4	
Bromoform	ND	ug/kg	4.6	1		06/10/25 23:52	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		06/10/25 23:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.0	1		06/10/25 23:52	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		06/10/25 23:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		06/10/25 23:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		06/10/25 23:52	98-06-6	
Carbon disulfide	ND	ug/kg	9.2	1		06/10/25 23:52	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		06/10/25 23:52	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		06/10/25 23:52	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		06/10/25 23:52	75-00-3	
Chloroform	ND	ug/kg	4.6	1		06/10/25 23:52	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		06/10/25 23:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		06/10/25 23:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		06/10/25 23:52	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		06/10/25 23:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		06/10/25 23:52	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		06/10/25 23:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		06/10/25 23:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		06/10/25 23:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		06/10/25 23:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	91.9	1		06/10/25 23:52	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		06/10/25 23:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		06/10/25 23:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		06/10/25 23:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		06/10/25 23:52	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-3 2-4 Lab ID: 50403641005 Collected: 06/04/25 10:32 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/10/25 23:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/10/25 23:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		06/10/25 23:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		06/10/25 23:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		06/10/25 23:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		06/10/25 23:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/10/25 23:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/10/25 23:52	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		06/10/25 23:52	100-41-4	
Ethyl methacrylate	ND	ug/kg	91.9	1		06/10/25 23:52	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		06/10/25 23:52	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		06/10/25 23:52	110-54-3	
2-Hexanone	ND	ug/kg	91.9	1		06/10/25 23:52	591-78-6	
Iodomethane	ND	ug/kg	91.9	1		06/10/25 23:52	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		06/10/25 23:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		06/10/25 23:52	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		06/10/25 23:52	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.2	1		06/10/25 23:52	90-12-0	
2-Methylnaphthalene	ND	ug/kg	9.2	1		06/10/25 23:52	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.0	1		06/10/25 23:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		06/10/25 23:52	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		06/10/25 23:52	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		06/10/25 23:52	103-65-1	
Styrene	ND	ug/kg	4.6	1		06/10/25 23:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		06/10/25 23:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		06/10/25 23:52	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		06/10/25 23:52	127-18-4	
Toluene	ND	ug/kg	4.6	1		06/10/25 23:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		06/10/25 23:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		06/10/25 23:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		06/10/25 23:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		06/10/25 23:52	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		06/10/25 23:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		06/10/25 23:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		06/10/25 23:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		06/10/25 23:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		06/10/25 23:52	108-67-8	
Vinyl acetate	ND	ug/kg	91.9	1		06/10/25 23:52	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		06/10/25 23:52	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		06/10/25 23:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	75-135	1		06/10/25 23:52	1868-53-7	
Toluene-d8 (S)	106	%.	65-148	1		06/10/25 23:52	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	63-132	1		06/10/25 23:52	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-3 2-4		Lab ID: 50403641005		Collected: 06/04/25 10:32		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture		17.5	%	0.10	1		06/06/25 15:21		N2

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-3 18-20 Lab ID: 50403641006 Collected: 06/04/25 10:45 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	40.0	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:59	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	06/10/25 08:22	06/14/25 03:59	7440-43-9	
Chromium	10.3	mg/kg	1.0	1	06/15/25 15:15	06/17/25 11:56	7440-47-3	
Lead	6.5	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:59	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/10/25 08:22	06/14/25 03:59	7782-49-2	
Silver	ND	mg/kg	0.53	1	06/10/25 08:22	06/14/25 03:59	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.21	1	06/18/25 21:11	06/19/25 09:00	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	83.0	1		06/11/25 00:21	67-64-1	
Acrolein	ND	ug/kg	83.0	1		06/11/25 00:21	107-02-8	
Acrylonitrile	ND	ug/kg	83.0	1		06/11/25 00:21	107-13-1	
Benzene	ND	ug/kg	4.1	1		06/11/25 00:21	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		06/11/25 00:21	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		06/11/25 00:21	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		06/11/25 00:21	75-27-4	
Bromoform	ND	ug/kg	4.1	1		06/11/25 00:21	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		06/11/25 00:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.7	1		06/11/25 00:21	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		06/11/25 00:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		06/11/25 00:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		06/11/25 00:21	98-06-6	
Carbon disulfide	ND	ug/kg	8.3	1		06/11/25 00:21	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		06/11/25 00:21	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		06/11/25 00:21	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		06/11/25 00:21	75-00-3	
Chloroform	ND	ug/kg	4.1	1		06/11/25 00:21	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		06/11/25 00:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		06/11/25 00:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		06/11/25 00:21	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		06/11/25 00:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		06/11/25 00:21	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		06/11/25 00:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		06/11/25 00:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		06/11/25 00:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		06/11/25 00:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	83.0	1		06/11/25 00:21	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		06/11/25 00:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		06/11/25 00:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		06/11/25 00:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		06/11/25 00:21	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-3 18-20 Lab ID: 50403641006 Collected: 06/04/25 10:45 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		06/11/25 00:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		06/11/25 00:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		06/11/25 00:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		06/11/25 00:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		06/11/25 00:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		06/11/25 00:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		06/11/25 00:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		06/11/25 00:21	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		06/11/25 00:21	100-41-4	
Ethyl methacrylate	ND	ug/kg	83.0	1		06/11/25 00:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		06/11/25 00:21	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		06/11/25 00:21	110-54-3	
2-Hexanone	ND	ug/kg	83.0	1		06/11/25 00:21	591-78-6	
Iodomethane	ND	ug/kg	83.0	1		06/11/25 00:21	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		06/11/25 00:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		06/11/25 00:21	99-87-6	
Methylene Chloride	ND	ug/kg	16.6	1		06/11/25 00:21	75-09-2	
1-Methylnaphthalene	ND	ug/kg	8.3	1		06/11/25 00:21	90-12-0	
2-Methylnaphthalene	ND	ug/kg	8.3	1		06/11/25 00:21	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.7	1		06/11/25 00:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		06/11/25 00:21	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		06/11/25 00:21	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		06/11/25 00:21	103-65-1	
Styrene	ND	ug/kg	4.1	1		06/11/25 00:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		06/11/25 00:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		06/11/25 00:21	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		06/11/25 00:21	127-18-4	
Toluene	ND	ug/kg	4.1	1		06/11/25 00:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		06/11/25 00:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		06/11/25 00:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		06/11/25 00:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		06/11/25 00:21	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		06/11/25 00:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		06/11/25 00:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		06/11/25 00:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		06/11/25 00:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		06/11/25 00:21	108-67-8	
Vinyl acetate	ND	ug/kg	83.0	1		06/11/25 00:21	108-05-4	
Vinyl chloride	ND	ug/kg	4.1	1		06/11/25 00:21	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		06/11/25 00:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	75-135	1		06/11/25 00:21	1868-53-7	
Toluene-d8 (S)	112	%.	65-148	1		06/11/25 00:21	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	63-132	1		06/11/25 00:21	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-3 18-20		Lab ID: 50403641006		Collected: 06/04/25 10:45		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture	10.7	%	0.10	1		06/06/25 15:21		N2	

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-4 2-4 Lab ID: 50403641007 Collected: 06/04/25 11:21 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	75.9	mg/kg	1.2	1	06/10/25 08:22	06/14/25 04:02	7440-39-3	
Cadmium	ND	mg/kg	0.61	1	06/10/25 08:22	06/14/25 04:02	7440-43-9	
Chromium	21.4	mg/kg	1.1	1	06/15/25 15:15	06/17/25 11:58	7440-47-3	
Lead	12.2	mg/kg	1.2	1	06/10/25 08:22	06/14/25 04:02	7439-92-1	
Selenium	ND	mg/kg	1.2	1	06/10/25 08:22	06/14/25 04:02	7782-49-2	
Silver	ND	mg/kg	0.61	1	06/10/25 08:22	06/14/25 04:02	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.24	1	06/18/25 21:11	06/19/25 09:02	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	95.4	1		06/11/25 00:51	67-64-1	
Acrolein	ND	ug/kg	95.4	1		06/11/25 00:51	107-02-8	
Acrylonitrile	ND	ug/kg	95.4	1		06/11/25 00:51	107-13-1	
Benzene	ND	ug/kg	4.8	1		06/11/25 00:51	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		06/11/25 00:51	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		06/11/25 00:51	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		06/11/25 00:51	75-27-4	
Bromoform	ND	ug/kg	4.8	1		06/11/25 00:51	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		06/11/25 00:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.9	1		06/11/25 00:51	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		06/11/25 00:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		06/11/25 00:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		06/11/25 00:51	98-06-6	
Carbon disulfide	ND	ug/kg	9.5	1		06/11/25 00:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		06/11/25 00:51	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		06/11/25 00:51	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		06/11/25 00:51	75-00-3	
Chloroform	ND	ug/kg	4.8	1		06/11/25 00:51	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		06/11/25 00:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		06/11/25 00:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		06/11/25 00:51	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		06/11/25 00:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		06/11/25 00:51	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		06/11/25 00:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		06/11/25 00:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		06/11/25 00:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		06/11/25 00:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.4	1		06/11/25 00:51	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		06/11/25 00:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		06/11/25 00:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		06/11/25 00:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		06/11/25 00:51	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-4 2-4 Lab ID: 50403641007 Collected: 06/04/25 11:21 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		06/11/25 00:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		06/11/25 00:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		06/11/25 00:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		06/11/25 00:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		06/11/25 00:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		06/11/25 00:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		06/11/25 00:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		06/11/25 00:51	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		06/11/25 00:51	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.4	1		06/11/25 00:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		06/11/25 00:51	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		06/11/25 00:51	110-54-3	
2-Hexanone	ND	ug/kg	95.4	1		06/11/25 00:51	591-78-6	
Iodomethane	ND	ug/kg	95.4	1		06/11/25 00:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		06/11/25 00:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		06/11/25 00:51	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		06/11/25 00:51	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.5	1		06/11/25 00:51	90-12-0	
2-Methylnaphthalene	ND	ug/kg	9.5	1		06/11/25 00:51	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.9	1		06/11/25 00:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		06/11/25 00:51	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		06/11/25 00:51	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		06/11/25 00:51	103-65-1	
Styrene	ND	ug/kg	4.8	1		06/11/25 00:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		06/11/25 00:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		06/11/25 00:51	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		06/11/25 00:51	127-18-4	
Toluene	ND	ug/kg	4.8	1		06/11/25 00:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		06/11/25 00:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		06/11/25 00:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		06/11/25 00:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		06/11/25 00:51	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		06/11/25 00:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		06/11/25 00:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		06/11/25 00:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		06/11/25 00:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		06/11/25 00:51	108-67-8	
Vinyl acetate	ND	ug/kg	95.4	1		06/11/25 00:51	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		06/11/25 00:51	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		06/11/25 00:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	75-135	1		06/11/25 00:51	1868-53-7	
Toluene-d8 (S)	104	%.	65-148	1		06/11/25 00:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	63-132	1		06/11/25 00:51	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-4 2-4 Lab ID: 50403641007 Collected: 06/04/25 11:21 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis							
Percent Moisture	18.3	%	0.10	1		06/06/25 15:21		N2

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-4 8-10 Lab ID: 50403641008 Collected: 06/04/25 11:26 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	44.1	mg/kg	0.97	1	06/10/25 08:22	06/14/25 04:04	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	06/10/25 08:22	06/14/25 04:04	7440-43-9	
Chromium	9.3	mg/kg	0.99	1	06/15/25 15:15	06/17/25 12:00	7440-47-3	
Lead	6.0	mg/kg	0.97	1	06/10/25 08:22	06/14/25 04:04	7439-92-1	
Selenium	ND	mg/kg	0.97	1	06/10/25 08:22	06/14/25 04:04	7782-49-2	
Silver	ND	mg/kg	0.49	1	06/10/25 08:22	06/14/25 04:04	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.22	1	06/18/25 21:11	06/19/25 09:04	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	85.6	1		06/11/25 01:21	67-64-1	
Acrolein	ND	ug/kg	85.6	1		06/11/25 01:21	107-02-8	
Acrylonitrile	ND	ug/kg	85.6	1		06/11/25 01:21	107-13-1	
Benzene	ND	ug/kg	4.3	1		06/11/25 01:21	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		06/11/25 01:21	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		06/11/25 01:21	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		06/11/25 01:21	75-27-4	
Bromoform	ND	ug/kg	4.3	1		06/11/25 01:21	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		06/11/25 01:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.4	1		06/11/25 01:21	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		06/11/25 01:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		06/11/25 01:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		06/11/25 01:21	98-06-6	
Carbon disulfide	ND	ug/kg	8.6	1		06/11/25 01:21	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		06/11/25 01:21	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		06/11/25 01:21	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		06/11/25 01:21	75-00-3	
Chloroform	ND	ug/kg	4.3	1		06/11/25 01:21	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		06/11/25 01:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		06/11/25 01:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		06/11/25 01:21	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		06/11/25 01:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		06/11/25 01:21	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		06/11/25 01:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		06/11/25 01:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		06/11/25 01:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		06/11/25 01:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	85.6	1		06/11/25 01:21	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		06/11/25 01:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		06/11/25 01:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		06/11/25 01:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		06/11/25 01:21	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-4 8-10 Lab ID: 50403641008 Collected: 06/04/25 11:26 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		06/11/25 01:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		06/11/25 01:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		06/11/25 01:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		06/11/25 01:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		06/11/25 01:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		06/11/25 01:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		06/11/25 01:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		06/11/25 01:21	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		06/11/25 01:21	100-41-4	
Ethyl methacrylate	ND	ug/kg	85.6	1		06/11/25 01:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		06/11/25 01:21	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		06/11/25 01:21	110-54-3	
2-Hexanone	ND	ug/kg	85.6	1		06/11/25 01:21	591-78-6	
Iodomethane	ND	ug/kg	85.6	1		06/11/25 01:21	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		06/11/25 01:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		06/11/25 01:21	99-87-6	
Methylene Chloride	ND	ug/kg	17.1	1		06/11/25 01:21	75-09-2	
1-Methylnaphthalene	ND	ug/kg	8.6	1		06/11/25 01:21	90-12-0	
2-Methylnaphthalene	ND	ug/kg	8.6	1		06/11/25 01:21	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.4	1		06/11/25 01:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		06/11/25 01:21	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		06/11/25 01:21	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		06/11/25 01:21	103-65-1	
Styrene	ND	ug/kg	4.3	1		06/11/25 01:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		06/11/25 01:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		06/11/25 01:21	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		06/11/25 01:21	127-18-4	
Toluene	ND	ug/kg	4.3	1		06/11/25 01:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		06/11/25 01:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		06/11/25 01:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		06/11/25 01:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		06/11/25 01:21	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		06/11/25 01:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		06/11/25 01:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		06/11/25 01:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		06/11/25 01:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		06/11/25 01:21	108-67-8	
Vinyl acetate	ND	ug/kg	85.6	1		06/11/25 01:21	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		06/11/25 01:21	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		06/11/25 01:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	75-135	1		06/11/25 01:21	1868-53-7	
Toluene-d8 (S)	106	%.	65-148	1		06/11/25 01:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	63-132	1		06/11/25 01:21	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-4 8-10		Lab ID: 50403641008		Collected: 06/04/25 11:26		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture		10.9	%	0.10	1		06/06/25 15:21		N2

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-5 2-4 Lab ID: 50403641009 Collected: 06/04/25 11:55 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	74.2	mg/kg	1.2	1	06/10/25 08:22	06/14/25 04:06	7440-39-3	
Cadmium	ND	mg/kg	0.60	1	06/10/25 08:22	06/14/25 04:06	7440-43-9	
Chromium	19.7	mg/kg	1.1	1	06/15/25 15:15	06/17/25 12:06	7440-47-3	
Lead	16.6	mg/kg	1.2	1	06/10/25 08:22	06/14/25 04:06	7439-92-1	
Selenium	ND	mg/kg	1.2	1	06/10/25 08:22	06/14/25 04:06	7782-49-2	
Silver	ND	mg/kg	0.60	1	06/10/25 08:22	06/14/25 04:06	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.24	1	06/18/25 21:11	06/19/25 09:07	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	94.4	1		06/11/25 01:50	67-64-1	
Acrolein	ND	ug/kg	94.4	1		06/11/25 01:50	107-02-8	
Acrylonitrile	ND	ug/kg	94.4	1		06/11/25 01:50	107-13-1	
Benzene	ND	ug/kg	4.7	1		06/11/25 01:50	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		06/11/25 01:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		06/11/25 01:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		06/11/25 01:50	75-27-4	
Bromoform	ND	ug/kg	4.7	1		06/11/25 01:50	75-25-2	
Bromomethane	ND	ug/kg	4.7	1		06/11/25 01:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.6	1		06/11/25 01:50	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		06/11/25 01:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		06/11/25 01:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		06/11/25 01:50	98-06-6	
Carbon disulfide	ND	ug/kg	9.4	1		06/11/25 01:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.7	1		06/11/25 01:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		06/11/25 01:50	108-90-7	
Chloroethane	ND	ug/kg	4.7	1		06/11/25 01:50	75-00-3	
Chloroform	ND	ug/kg	4.7	1		06/11/25 01:50	67-66-3	
Chloromethane	ND	ug/kg	4.7	1		06/11/25 01:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		06/11/25 01:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		06/11/25 01:50	106-43-4	
Dibromochloromethane	ND	ug/kg	4.7	1		06/11/25 01:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		06/11/25 01:50	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		06/11/25 01:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		06/11/25 01:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		06/11/25 01:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		06/11/25 01:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	94.4	1		06/11/25 01:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.7	1		06/11/25 01:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		06/11/25 01:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		06/11/25 01:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		06/11/25 01:50	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-5 2-4 Lab ID: 50403641009 Collected: 06/04/25 11:55 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		06/11/25 01:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		06/11/25 01:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		06/11/25 01:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		06/11/25 01:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		06/11/25 01:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		06/11/25 01:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		06/11/25 01:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		06/11/25 01:50	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1		06/11/25 01:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	94.4	1		06/11/25 01:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		06/11/25 01:50	87-68-3	
n-Hexane	ND	ug/kg	4.7	1		06/11/25 01:50	110-54-3	
2-Hexanone	ND	ug/kg	94.4	1		06/11/25 01:50	591-78-6	
Iodomethane	ND	ug/kg	94.4	1		06/11/25 01:50	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		06/11/25 01:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		06/11/25 01:50	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		06/11/25 01:50	75-09-2	
1-Methylnaphthalene	ND	ug/kg	9.4	1		06/11/25 01:50	90-12-0	
2-Methylnaphthalene	ND	ug/kg	9.4	1		06/11/25 01:50	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.6	1		06/11/25 01:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		06/11/25 01:50	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		06/11/25 01:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		06/11/25 01:50	103-65-1	
Styrene	ND	ug/kg	4.7	1		06/11/25 01:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		06/11/25 01:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		06/11/25 01:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		06/11/25 01:50	127-18-4	
Toluene	ND	ug/kg	4.7	1		06/11/25 01:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		06/11/25 01:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		06/11/25 01:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		06/11/25 01:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		06/11/25 01:50	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		06/11/25 01:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		06/11/25 01:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		06/11/25 01:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		06/11/25 01:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		06/11/25 01:50	108-67-8	
Vinyl acetate	ND	ug/kg	94.4	1		06/11/25 01:50	108-05-4	
Vinyl chloride	ND	ug/kg	4.7	1		06/11/25 01:50	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		06/11/25 01:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	75-135	1		06/11/25 01:50	1868-53-7	
Toluene-d8 (S)	99	%.	65-148	1		06/11/25 01:50	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	63-132	1		06/11/25 01:50	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-5 2-4		Lab ID: 50403641009		Collected: 06/04/25 11:55		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture									
Analytical Method: SM 2540G									
Pace Analytical Services - Indianapolis									
Percent Moisture		19.2	%	0.10	1		06/06/25 15:57		N2

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-5 8-10 Lab ID: 50403641010 Collected: 06/04/25 12:00 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Indianapolis								
Barium	40.6	mg/kg	1.1	1	06/10/25 08:22	06/14/25 04:08	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	06/10/25 08:22	06/14/25 04:08	7440-43-9	
Chromium	12.6	mg/kg	1.0	1	06/15/25 15:15	06/17/25 12:08	7440-47-3	
Lead	7.0	mg/kg	1.1	1	06/10/25 08:22	06/14/25 04:08	7439-92-1	
Selenium	ND	mg/kg	1.1	1	06/10/25 08:22	06/14/25 04:08	7782-49-2	
Silver	ND	mg/kg	0.53	1	06/10/25 08:22	06/14/25 04:08	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Indianapolis								
Mercury	ND	mg/kg	0.24	1	06/18/25 21:11	06/19/25 09:09	7439-97-6	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Pace Analytical Services - Indianapolis								
Acetone	ND	ug/kg	89.2	1		06/11/25 02:20	67-64-1	
Acrolein	ND	ug/kg	89.2	1		06/11/25 02:20	107-02-8	
Acrylonitrile	ND	ug/kg	89.2	1		06/11/25 02:20	107-13-1	
Benzene	ND	ug/kg	4.5	1		06/11/25 02:20	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		06/11/25 02:20	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		06/11/25 02:20	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		06/11/25 02:20	75-27-4	
Bromoform	ND	ug/kg	4.5	1		06/11/25 02:20	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		06/11/25 02:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.3	1		06/11/25 02:20	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		06/11/25 02:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		06/11/25 02:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		06/11/25 02:20	98-06-6	
Carbon disulfide	ND	ug/kg	8.9	1		06/11/25 02:20	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		06/11/25 02:20	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		06/11/25 02:20	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		06/11/25 02:20	75-00-3	
Chloroform	ND	ug/kg	4.5	1		06/11/25 02:20	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		06/11/25 02:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		06/11/25 02:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		06/11/25 02:20	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		06/11/25 02:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		06/11/25 02:20	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		06/11/25 02:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		06/11/25 02:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		06/11/25 02:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		06/11/25 02:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	89.2	1		06/11/25 02:20	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		06/11/25 02:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		06/11/25 02:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		06/11/25 02:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		06/11/25 02:20	75-35-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Sample: B-5 8-10 Lab ID: 50403641010 Collected: 06/04/25 12:00 Received: 06/05/25 16:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis						
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		06/11/25 02:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		06/11/25 02:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		06/11/25 02:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		06/11/25 02:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		06/11/25 02:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		06/11/25 02:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		06/11/25 02:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		06/11/25 02:20	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		06/11/25 02:20	100-41-4	
Ethyl methacrylate	ND	ug/kg	89.2	1		06/11/25 02:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		06/11/25 02:20	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		06/11/25 02:20	110-54-3	
2-Hexanone	ND	ug/kg	89.2	1		06/11/25 02:20	591-78-6	
Iodomethane	ND	ug/kg	89.2	1		06/11/25 02:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		06/11/25 02:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		06/11/25 02:20	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		06/11/25 02:20	75-09-2	
1-Methylnaphthalene	ND	ug/kg	8.9	1		06/11/25 02:20	90-12-0	
2-Methylnaphthalene	ND	ug/kg	8.9	1		06/11/25 02:20	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.3	1		06/11/25 02:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		06/11/25 02:20	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		06/11/25 02:20	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		06/11/25 02:20	103-65-1	
Styrene	ND	ug/kg	4.5	1		06/11/25 02:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		06/11/25 02:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		06/11/25 02:20	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		06/11/25 02:20	127-18-4	
Toluene	ND	ug/kg	4.5	1		06/11/25 02:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		06/11/25 02:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		06/11/25 02:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		06/11/25 02:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		06/11/25 02:20	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		06/11/25 02:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		06/11/25 02:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		06/11/25 02:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		06/11/25 02:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		06/11/25 02:20	108-67-8	
Vinyl acetate	ND	ug/kg	89.2	1		06/11/25 02:20	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		06/11/25 02:20	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		06/11/25 02:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	75-135	1		06/11/25 02:20	1868-53-7	
Toluene-d8 (S)	118	%.	65-148	1		06/11/25 02:20	2037-26-5	
4-Bromofluorobenzene (S)	83	%.	63-132	1		06/11/25 02:20	460-00-4	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

Sample: B-5 8-10		Lab ID: 50403641010		Collected: 06/04/25 12:00		Received: 06/05/25 16:15		Matrix: Solid	
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture		Analytical Method: SM 2540G Pace Analytical Services - Indianapolis							
Percent Moisture		13.5	%	0.10	1		06/06/25 15:57		N2

REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

QC Batch:	849635	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010		

METHOD BLANK:	3891824	Matrix:	Solid
Associated Lab Samples:	50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	06/19/25 08:20	

LABORATORY CONTROL SAMPLE:	3891825					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.51	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3891826					3891827							
		50403641002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
Mercury	mg/kg	ND	0.59	0.53	0.58	0.53	97	97	75-125	9	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

QC Batch:	847783	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010		

METHOD BLANK: 3882529

Matrix: Solid

Associated Lab Samples: 50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/kg	ND	1.0	06/14/25 03:04	
Cadmium	mg/kg	ND	0.50	06/14/25 03:04	
Lead	mg/kg	ND	1.0	06/14/25 03:04	
Selenium	mg/kg	ND	1.0	06/14/25 03:04	
Silver	mg/kg	ND	0.50	06/14/25 03:04	

LABORATORY CONTROL SAMPLE: 3882530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/kg	50	48.9	98	80-120	
Cadmium	mg/kg	50	47.3	95	80-120	
Lead	mg/kg	50	46.4	93	80-120	
Selenium	mg/kg	50	46.4	93	80-120	
Silver	mg/kg	25	24.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3882531 3882532

Parameter	Units	50403601001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
Barium	mg/kg	36.6	41.8	48.5	72.3	78.6	78	80	75-125	8	20	
Cadmium	mg/kg	ND	41.8	48.5	31.4	36.3	75	75	75-125	15	20	
Lead	mg/kg	ND	41.8	48.5	30.2	35.1	72	72	75-125	15	20	M3
Selenium	mg/kg	ND	41.8	48.5	30.1	35.2	72	73	75-125	16	20	M3
Silver	mg/kg	ND	20.9	24.3	16.5	19.1	79	79	75-125	15	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

QC Batch:	849195	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010		

METHOD BLANK:	3889913	Matrix:	Solid
Associated Lab Samples:	50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	1.0	06/17/25 11:16	

LABORATORY CONTROL SAMPLE:	3889914					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	50	52.4	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3889915			3889916								
Parameter	Units	50403536001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	9.3	50.2	50.9	56.6	58.0	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

QC Batch:	848393	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010		

METHOD BLANK: 3885841

Matrix: Solid

Associated Lab Samples: 50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/10/25 21:24	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/10/25 21:24	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/10/25 21:24	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/10/25 21:24	
1,1-Dichloroethane	ug/kg	ND	5.0	06/10/25 21:24	
1,1-Dichloroethene	ug/kg	ND	5.0	06/10/25 21:24	
1,1-Dichloropropene	ug/kg	ND	5.0	06/10/25 21:24	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/10/25 21:24	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/10/25 21:24	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/10/25 21:24	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/10/25 21:24	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/10/25 21:24	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/10/25 21:24	
1,2-Dichloroethane	ug/kg	ND	5.0	06/10/25 21:24	
1,2-Dichloropropane	ug/kg	ND	5.0	06/10/25 21:24	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/10/25 21:24	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/10/25 21:24	
1,3-Dichloropropane	ug/kg	ND	5.0	06/10/25 21:24	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/10/25 21:24	
1-Methylnaphthalene	ug/kg	ND	10.0	06/10/25 21:24	
2,2-Dichloropropane	ug/kg	ND	5.0	06/10/25 21:24	
2-Butanone (MEK)	ug/kg	ND	25.0	06/10/25 21:24	
2-Chlorotoluene	ug/kg	ND	5.0	06/10/25 21:24	
2-Hexanone	ug/kg	ND	100	06/10/25 21:24	
2-Methylnaphthalene	ug/kg	ND	10.0	06/10/25 21:24	
4-Chlorotoluene	ug/kg	ND	5.0	06/10/25 21:24	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	06/10/25 21:24	
Acetone	ug/kg	ND	100	06/10/25 21:24	
Acrolein	ug/kg	ND	100	06/10/25 21:24	
Acrylonitrile	ug/kg	ND	100	06/10/25 21:24	
Benzene	ug/kg	ND	5.0	06/10/25 21:24	
Bromobenzene	ug/kg	ND	5.0	06/10/25 21:24	
Bromochloromethane	ug/kg	ND	5.0	06/10/25 21:24	
Bromodichloromethane	ug/kg	ND	5.0	06/10/25 21:24	
Bromoform	ug/kg	ND	5.0	06/10/25 21:24	
Bromomethane	ug/kg	ND	5.0	06/10/25 21:24	
Carbon disulfide	ug/kg	ND	10.0	06/10/25 21:24	
Carbon tetrachloride	ug/kg	ND	5.0	06/10/25 21:24	
Chlorobenzene	ug/kg	ND	5.0	06/10/25 21:24	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

METHOD BLANK: 3885841

Matrix: Solid

Associated Lab Samples: 50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008, 50403641009, 50403641010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/kg	ND	5.0	06/10/25 21:24	
Chloroform	ug/kg	ND	5.0	06/10/25 21:24	
Chloromethane	ug/kg	ND	5.0	06/10/25 21:24	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/10/25 21:24	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/10/25 21:24	
Dibromochloromethane	ug/kg	ND	5.0	06/10/25 21:24	
Dibromomethane	ug/kg	ND	5.0	06/10/25 21:24	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/10/25 21:24	
Ethyl methacrylate	ug/kg	ND	100	06/10/25 21:24	
Ethylbenzene	ug/kg	ND	5.0	06/10/25 21:24	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/10/25 21:24	
Iodomethane	ug/kg	ND	100	06/10/25 21:24	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/10/25 21:24	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/10/25 21:24	
Methylene Chloride	ug/kg	ND	20.0	06/10/25 21:24	
n-Butylbenzene	ug/kg	ND	5.0	06/10/25 21:24	
n-Hexane	ug/kg	ND	5.0	06/10/25 21:24	
n-Propylbenzene	ug/kg	ND	5.0	06/10/25 21:24	
Naphthalene	ug/kg	ND	5.0	06/10/25 21:24	
p-Isopropyltoluene	ug/kg	ND	5.0	06/10/25 21:24	
sec-Butylbenzene	ug/kg	ND	5.0	06/10/25 21:24	
Styrene	ug/kg	ND	5.0	06/10/25 21:24	
tert-Butylbenzene	ug/kg	ND	5.0	06/10/25 21:24	
Tetrachloroethene	ug/kg	ND	5.0	06/10/25 21:24	
Toluene	ug/kg	ND	5.0	06/10/25 21:24	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/10/25 21:24	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/10/25 21:24	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	06/10/25 21:24	
Trichloroethene	ug/kg	ND	5.0	06/10/25 21:24	
Trichlorofluoromethane	ug/kg	ND	5.0	06/10/25 21:24	
Vinyl acetate	ug/kg	ND	100	06/10/25 21:24	
Vinyl chloride	ug/kg	ND	5.0	06/10/25 21:24	
Xylene (Total)	ug/kg	ND	10.0	06/10/25 21:24	
4-Bromofluorobenzene (S)	%.	103	63-132	06/10/25 21:24	
Dibromofluoromethane (S)	%.	108	75-135	06/10/25 21:24	1d
Toluene-d8 (S)	%.	102	65-148	06/10/25 21:24	

LABORATORY CONTROL SAMPLE: 3885842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	51.2	102	72-126	
1,1,1-Trichloroethane	ug/kg	50	47.8	96	62-132	
1,1,2,2-Tetrachloroethane	ug/kg	50	59.3	119	65-123	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

LABORATORY CONTROL SAMPLE: 3885842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2-Trichloroethane	ug/kg	50	56.6	113	72-125	
1,1-Dichloroethane	ug/kg	50	52.9	106	71-122	
1,1-Dichloroethene	ug/kg	50	49.4	99	55-129	
1,1-Dichloropropene	ug/kg	50	54.5	109	70-132	
1,2,3-Trichlorobenzene	ug/kg	50	51.7	103	61-135	
1,2,3-Trichloropropane	ug/kg	50	59.9	120	70-128	
1,2,4-Trichlorobenzene	ug/kg	50	48.1	96	55-137	
1,2,4-Trimethylbenzene	ug/kg	50	47.5	95	60-123	
1,2-Dibromoethane (EDB)	ug/kg	50	58.3	117	70-129	
1,2-Dichlorobenzene	ug/kg	50	50.9	102	70-119	
1,2-Dichloroethane	ug/kg	50	53.3	107	64-134	
1,2-Dichloropropane	ug/kg	50	54.7	109	67-127	
1,3,5-Trimethylbenzene	ug/kg	50	47.8	96	61-120	
1,3-Dichlorobenzene	ug/kg	50	48.7	97	67-122	
1,3-Dichloropropane	ug/kg	50	57.4	115	72-124	
1,4-Dichlorobenzene	ug/kg	50	51.2	102	66-122	
1-Methylnaphthalene	ug/kg	50	52.5	105	56-144	
2,2-Dichloropropane	ug/kg	50	46.9	94	59-131	
2-Butanone (MEK)	ug/kg	250	323	129	49-150	
2-Chlorotoluene	ug/kg	50	48.3	97	67-118	
2-Hexanone	ug/kg	250	302	121	42-141	
2-Methylnaphthalene	ug/kg	50	43.5	87	47-137	
4-Chlorotoluene	ug/kg	50	49.6	99	68-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	313	125	55-138	
Acetone	ug/kg	250	307	123	33-150	
Acrolein	ug/kg	1000	1000	100	44-140	
Acrylonitrile	ug/kg	250	322	129	65-138	
Benzene	ug/kg	50	53.2	106	67-123	
Bromobenzene	ug/kg	50	51.4	103	67-122	
Bromochloromethane	ug/kg	50	56.8	114	69-128	
Bromodichloromethane	ug/kg	50	52.0	104	74-134	
Bromoform	ug/kg	50	53.2	106	67-134	
Bromomethane	ug/kg	50	62.8	126	58-168	
Carbon disulfide	ug/kg	50	48.0	96	55-126	
Carbon tetrachloride	ug/kg	50	48.0	96	62-133	
Chlorobenzene	ug/kg	50	51.9	104	67-121	
Chloroethane	ug/kg	50	58.5	117	57-140	
Chloroform	ug/kg	50	51.9	104	70-127	
Chloromethane	ug/kg	50	53.5	107	51-137	
cis-1,2-Dichloroethene	ug/kg	50	53.2	106	70-125	
cis-1,3-Dichloropropene	ug/kg	50	53.4	107	71-129	
Dibromochloromethane	ug/kg	50	53.6	107	73-131	
Dibromomethane	ug/kg	50	56.3	113	74-133	
Dichlorodifluoromethane	ug/kg	50	49.8	100	10-172	
Ethyl methacrylate	ug/kg	50	61.4J	123	71-141	
Ethylbenzene	ug/kg	50	50.3	101	66-123	
Hexachloro-1,3-butadiene	ug/kg	50	46.6	93	53-131	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

LABORATORY CONTROL SAMPLE: 3885842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/kg	50	48.2J	96	46-155	
Isopropylbenzene (Cumene)	ug/kg	50	49.9	100	58-114	
Methyl-tert-butyl ether	ug/kg	50	53.8	108	64-132	
Methylene Chloride	ug/kg	50	54.8	110	61-137	
n-Butylbenzene	ug/kg	50	47.3	95	58-127	
n-Hexane	ug/kg	50	48.6	97	44-117	
n-Propylbenzene	ug/kg	50	48.2	96	64-122	
Naphthalene	ug/kg	50	51.1	102	55-131	
p-Isopropyltoluene	ug/kg	50	47.7	95	62-123	
sec-Butylbenzene	ug/kg	50	48.7	97	65-123	
Styrene	ug/kg	50	51.2	102	68-124	
tert-Butylbenzene	ug/kg	50	62.9	126	64-127	
Tetrachloroethene	ug/kg	50	56.1	112	58-127	
Toluene	ug/kg	50	49.7	99	60-122	
trans-1,2-Dichloroethene	ug/kg	50	51.9	104	64-124	
trans-1,3-Dichloropropene	ug/kg	50	52.8	106	68-131	
trans-1,4-Dichloro-2-butene	ug/kg	50	54J	108	60-134	
Trichloroethene	ug/kg	50	50.7	101	65-126	
Trichlorofluoromethane	ug/kg	50	64.2	128	49-140	
Vinyl acetate	ug/kg	200	266	133	55-164	
Vinyl chloride	ug/kg	50	55.4	111	50-146	
Xylene (Total)	ug/kg	150	152	101	64-120	
4-Bromofluorobenzene (S)	%.			100	63-132	
Dibromofluoromethane (S)	%.			103	75-135	
Toluene-d8 (S)	%.			104	65-148	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

QC Batch: 847920

Analysis Method: SM 2540G

QC Batch Method: SM 2540G

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50403641001, 50403641002, 50403641003, 50403641004, 50403641005, 50403641006, 50403641007, 50403641008

SAMPLE DUPLICATE: 3883098

Parameter	Units	50403511001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.6	11.3	11	10	N2,R1

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403641

QC Batch:	847954	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50403641009, 50403641010			

SAMPLE DUPLICATE: 3883279

Parameter	Units	50403641009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.2	19.2	0	10	N2

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REPORT OF LABORATORY ANALYSIS



QUALIFIERS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Neither matrix spike nor matrix precision data could be provided for this analytical batch due to insufficient sample volume.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50403641001	B-1 2-4	EPA 3050	847783	EPA 6010	849187
50403641001	B-1 2-4	EPA 3050	849195	EPA 6010	849521
50403641002	B-1 18-20	EPA 3050	847783	EPA 6010	849187
50403641002	B-1 18-20	EPA 3050	849195	EPA 6010	849521
50403641003	B-2 2-4	EPA 3050	847783	EPA 6010	849187
50403641003	B-2 2-4	EPA 3050	849195	EPA 6010	849521
50403641004	B-2 18-20	EPA 3050	847783	EPA 6010	849187
50403641004	B-2 18-20	EPA 3050	849195	EPA 6010	849521
50403641005	B-3 2-4	EPA 3050	847783	EPA 6010	849187
50403641005	B-3 2-4	EPA 3050	849195	EPA 6010	849521
50403641006	B-3 18-20	EPA 3050	847783	EPA 6010	849187
50403641006	B-3 18-20	EPA 3050	849195	EPA 6010	849521
50403641007	B-4 2-4	EPA 3050	847783	EPA 6010	849187
50403641007	B-4 2-4	EPA 3050	849195	EPA 6010	849521
50403641008	B-4 8-10	EPA 3050	847783	EPA 6010	849187
50403641008	B-4 8-10	EPA 3050	849195	EPA 6010	849521
50403641009	B-5 2-4	EPA 3050	847783	EPA 6010	849187
50403641009	B-5 2-4	EPA 3050	849195	EPA 6010	849521
50403641010	B-5 8-10	EPA 3050	847783	EPA 6010	849187
50403641010	B-5 8-10	EPA 3050	849195	EPA 6010	849521
50403641001	B-1 2-4	EPA 7471	849635	EPA 7471	849894
50403641002	B-1 18-20	EPA 7471	849635	EPA 7471	849894
50403641003	B-2 2-4	EPA 7471	849635	EPA 7471	849894
50403641004	B-2 18-20	EPA 7471	849635	EPA 7471	849894
50403641005	B-3 2-4	EPA 7471	849635	EPA 7471	849894
50403641006	B-3 18-20	EPA 7471	849635	EPA 7471	849894
50403641007	B-4 2-4	EPA 7471	849635	EPA 7471	849894
50403641008	B-4 8-10	EPA 7471	849635	EPA 7471	849894
50403641009	B-5 2-4	EPA 7471	849635	EPA 7471	849894
50403641010	B-5 8-10	EPA 7471	849635	EPA 7471	849894
50403641001	B-1 2-4	EPA 8260	848393		
50403641002	B-1 18-20	EPA 8260	848393		
50403641003	B-2 2-4	EPA 8260	848393		
50403641004	B-2 18-20	EPA 8260	848393		
50403641005	B-3 2-4	EPA 8260	848393		
50403641006	B-3 18-20	EPA 8260	848393		
50403641007	B-4 2-4	EPA 8260	848393		
50403641008	B-4 8-10	EPA 8260	848393		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403641

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50403641009	B-5 2-4	EPA 8260	848393		
50403641010	B-5 8-10	EPA 8260	848393		
50403641001	B-1 2-4	SM 2540G	847920		
50403641002	B-1 18-20	SM 2540G	847920		
50403641003	B-2 2-4	SM 2540G	847920		
50403641004	B-2 18-20	SM 2540G	847920		
50403641005	B-3 2-4	SM 2540G	847920		
50403641006	B-3 18-20	SM 2540G	847920		
50403641007	B-4 2-4	SM 2540G	847920		
50403641008	B-4 8-10	SM 2540G	847920		
50403641009	B-5 2-4	SM 2540G	847954		
50403641010	B-5 8-10	SM 2540G	847954		

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SAMPLE CONDITION UPON RECEIPT FORM

Pace

Date/Time and Initials of person examining contents: *W* *6.5* *1031*

1. Thermometer:	1 2 3 4 5 6 7 8 9	A B C D E F G H I	3. Packing Material:	Bubble Wrap	Bubble Bags	Other
2. Cooler Temperature(s):	1.7/1.8		4. Ice Type:	Wet	None	
RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)			5. Courier:	Fed Ex	UPS	Client
3. Was the PM notified of out of temp cooler?:			6. Custody Seal on Cooler/Box Present:			
(leave blank if samples are in temp)			(If yes)Seals Intact:			
Cooler temp should be above freezing to 6°C			No (leave blank if no seals were present)			
If the PM was contacted in the comments below please write how they instructed the project to proceed						

All discrepancies will be written out in the comments section below.

	Yes	No	Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)	X	X			X
Short Hold Time Analysis (48 hours or less)?	X	X			X
Analysis:					
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: 1030		Present	Absent	N/A
Rush TAT Requested (4 days or less):		X			X
Custody Signatures Present?	X		Present	Absent	No VOA Vials Sent
Containers Intact?	X			X	
Sample Label (IDs/Dates/Times) Match COC?:	X			X	
Except TCs, which only require sample ID					
Comments:					

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFLU	WGKU	BG1U	MeOH (any)			VOA VIAL HS (>6mm)	AMBER GLASS										PLASTIC										OTHER				Matrix																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				SBS	DI	R		DG9H	VG9H	DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Nitric	Sulfuric	Sodium Hydroxide/ ZnAc	Black	NaOH/Zn Ac >9	NaOH >10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Container Codes

Glass			Plastic				
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	NT3U	Non Teflon 250mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4U	125mL unpreserved plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4N	125mL HNO3 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	BP4S	125mL H2SO4 plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Miscellaneous	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic		
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	Syringe Kit	LL Cr+6 sampling kit
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	R	Terracore Kit
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SP5T	120mL Coliform Sodium Thiosulfate
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	GN	General Container
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass-field filtered	BP3U	250mL unpreserved plastic	U	Summa Can (air sample)
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	SL	Solid
						OL	Oil
						NAL	Non-aqueous liquid
						WP	Wipe



June 20, 2025

Ms. Lindsay Perazzo
ATC Group Services, LLC
7988 Centerpoint Drive
Suite 100
Indianapolis, IN 46256

RE: Project: INDOT Westfield (170DOT0130)
Pace Project No.: 50403706

Dear Ms. Perazzo:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,

A handwritten signature in black ink that reads 'Amanda L. Gaines'.

Amanda Gaines
amanda.gaines@pacelabs.com
(317)228-3100
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50403706001	B-2 WT	Water	06/04/25 16:05	06/05/25 16:15
50403706002	B-3 WT	Water	06/04/25 16:35	06/05/25 16:15
50403706003	B-4 WT	Water	06/04/25 16:57	06/05/25 16:15
50403706004	B-5 WT	Water	06/04/25 17:14	06/05/25 16:15
50403706005	Trip Blank	Water	06/04/25 14:00	06/05/25 16:15

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SAMPLE ANALYTE COUNT

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50403706001	B-2 WT	EPA 6010	JPk	6	PASI-I
		EPA 6010	GC	6	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 5030/8260	BES	75	PASI-I
50403706002	B-3 WT	EPA 6010	JPk	6	PASI-I
		EPA 6010	GC	6	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 5030/8260	BES	75	PASI-I
50403706003	B-4 WT	EPA 6010	JPk	6	PASI-I
		EPA 6010	GC	6	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 5030/8260	BES	75	PASI-I
50403706004	B-5 WT	EPA 6010	JPk	6	PASI-I
		EPA 6010	GC	6	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 7470	EEM	1	PASI-I
		EPA 5030/8260	BES	75	PASI-I
50403706005	Trip Blank	EPA 5030/8260	BES	75	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50403706001	B-2 WT					
EPA 6010	Barium	217	ug/L	10.0	06/11/25 00:02	
EPA 6010	Barium, Dissolved	72.6	ug/L	50.0	06/20/25 03:36	
50403706002	B-3 WT					
EPA 6010	Barium	2840	ug/L	10.0	06/11/25 00:13	
EPA 6010	Cadmium	16.9	ug/L	2.0	06/11/25 00:13	
EPA 6010	Chromium	602	ug/L	10.0	06/11/25 00:13	
EPA 6010	Lead	312	ug/L	10.0	06/11/25 00:13	
EPA 6010	Selenium	12.9	ug/L	10.0	06/11/25 00:13	
EPA 6010	Barium, Dissolved	56.3	ug/L	50.0	06/20/25 03:38	
50403706003	B-4 WT					
EPA 6010	Barium	2210	ug/L	10.0	06/11/25 00:35	
EPA 6010	Cadmium	10.2	ug/L	2.0	06/11/25 00:35	
EPA 6010	Chromium	605	ug/L	10.0	06/11/25 00:35	
EPA 6010	Lead	264	ug/L	10.0	06/11/25 00:35	
EPA 6010	Barium, Dissolved	68.9	ug/L	50.0	06/20/25 03:40	
50403706004	B-5 WT					
EPA 6010	Barium	335	ug/L	10.0	06/11/25 00:37	
EPA 6010	Chromium	23.5	ug/L	10.0	06/11/25 00:37	
EPA 6010	Lead	30.0	ug/L	10.0	06/11/25 00:37	
EPA 6010	Barium, Dissolved	77.1	ug/L	50.0	06/20/25 03:42	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-2 WT		Lab ID: 50403706001		Collected: 06/04/25 16:05		Received: 06/05/25 16:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	217	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:02	7440-39-3		
Cadmium	ND	ug/L	2.0	1	06/08/25 16:14	06/11/25 00:02	7440-43-9		
Chromium	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:02	7440-47-3		
Lead	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:02	7439-92-1		
Selenium	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:02	7782-49-2		
Silver	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:02	7440-22-4		
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium, Dissolved	72.6	ug/L	50.0	1	06/19/25 11:21	06/20/25 03:36	7440-39-3		
Cadmium, Dissolved	ND	ug/L	1.0	1	06/19/25 11:21	06/20/25 03:36	7440-43-9		
Chromium, Dissolved	ND	ug/L	20.0	1	06/19/25 11:21	06/20/25 03:36	7440-47-3		
Lead, Dissolved	ND	ug/L	5.0	1	06/19/25 11:21	06/20/25 03:36	7439-92-1		
Selenium, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:36	7782-49-2		
Silver, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:36	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	06/13/25 11:56	06/15/25 20:20	7439-97-6		
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	2.0	1	06/18/25 11:04	06/18/25 18:56	7439-97-6		
8260 MSV Indiana		Analytical Method: EPA 5030/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/10/25 12:10	67-64-1		
Acrolein	ND	ug/L	50.0	1		06/10/25 12:10	107-02-8		
Acrylonitrile	ND	ug/L	100	1		06/10/25 12:10	107-13-1		
Benzene	ND	ug/L	5.0	1		06/10/25 12:10	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		06/10/25 12:10	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		06/10/25 12:10	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		06/10/25 12:10	75-27-4		
Bromoform	ND	ug/L	5.0	1		06/10/25 12:10	75-25-2		
Bromomethane	ND	ug/L	5.0	1		06/10/25 12:10	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/25 12:10	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:10	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:10	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:10	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		06/10/25 12:10	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/25 12:10	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		06/10/25 12:10	108-90-7		
Chloroethane	ND	ug/L	5.0	1		06/10/25 12:10	75-00-3		
Chloroform	ND	ug/L	5.0	1		06/10/25 12:10	67-66-3		
Chloromethane	ND	ug/L	5.0	1		06/10/25 12:10	74-87-3		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-2 WT		Lab ID: 50403706001		Collected: 06/04/25 16:05		Received: 06/05/25 16:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Indiana	Analytical Method: EPA 5030/8260								
	Pace Analytical Services - Indianapolis								
2-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 12:10	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 12:10	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		06/10/25 12:10	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/25 12:10	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		06/10/25 12:10	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:10	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:10	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:10	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/10/25 12:10	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/25 12:10	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/25 12:10	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/25 12:10	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:10	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:10	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:10	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:10	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:10	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:10	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:10	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:10	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:10	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		06/10/25 12:10	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		06/10/25 12:10	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/10/25 12:10	87-68-3		
n-Hexane	ND	ug/L	5.0	1		06/10/25 12:10	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		06/10/25 12:10	591-78-6		
Iodomethane	ND	ug/L	10.0	1		06/10/25 12:10	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/25 12:10	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		06/10/25 12:10	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		06/10/25 12:10	75-09-2		
1-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 12:10	90-12-0		
2-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 12:10	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/25 12:10	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/25 12:10	1634-04-4		
Naphthalene	ND	ug/L	1.2	1		06/10/25 12:10	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		06/10/25 12:10	103-65-1		
Styrene	ND	ug/L	5.0	1		06/10/25 12:10	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 12:10	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 12:10	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		06/10/25 12:10	127-18-4		
Toluene	ND	ug/L	5.0	1		06/10/25 12:10	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:10	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:10	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/25 12:10	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/25 12:10	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		06/10/25 12:10	79-01-6		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-2 WT		Lab ID: 50403706001		Collected: 06/04/25 16:05		Received: 06/05/25 16:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260							
		Pace Analytical Services - Indianapolis							
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/25 12:10	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/10/25 12:10	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 12:10	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 12:10	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		06/10/25 12:10	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		06/10/25 12:10	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		06/10/25 12:10	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	95	%.	82-128	1		06/10/25 12:10	1868-53-7		
4-Bromofluorobenzene (S)	99	%.	79-124	1		06/10/25 12:10	460-00-4		
Toluene-d8 (S)	95	%.	73-122	1		06/10/25 12:10	2037-26-5		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-3 WT		Lab ID: 50403706002		Collected: 06/04/25 16:35		Received: 06/05/25 16:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	2840	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:13	7440-39-3		
Cadmium	16.9	ug/L	2.0	1	06/08/25 16:14	06/11/25 00:13	7440-43-9		
Chromium	602	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:13	7440-47-3		
Lead	312	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:13	7439-92-1		
Selenium	12.9	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:13	7782-49-2		
Silver	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:13	7440-22-4		
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium, Dissolved	56.3	ug/L	50.0	1	06/19/25 11:21	06/20/25 03:38	7440-39-3		
Cadmium, Dissolved	ND	ug/L	1.0	1	06/19/25 11:21	06/20/25 03:38	7440-43-9		
Chromium, Dissolved	ND	ug/L	20.0	1	06/19/25 11:21	06/20/25 03:38	7440-47-3		
Lead, Dissolved	ND	ug/L	5.0	1	06/19/25 11:21	06/20/25 03:38	7439-92-1		
Selenium, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:38	7782-49-2		
Silver, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:38	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	6.0	1	06/13/25 11:56	06/15/25 20:22	7439-97-6		
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	2.0	1	06/18/25 11:04	06/18/25 18:59	7439-97-6		
8260 MSV Indiana		Analytical Method: EPA 5030/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/10/25 12:32	67-64-1		
Acrolein	ND	ug/L	50.0	1		06/10/25 12:32	107-02-8		
Acrylonitrile	ND	ug/L	100	1		06/10/25 12:32	107-13-1		
Benzene	ND	ug/L	5.0	1		06/10/25 12:32	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		06/10/25 12:32	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		06/10/25 12:32	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		06/10/25 12:32	75-27-4		
Bromoform	ND	ug/L	5.0	1		06/10/25 12:32	75-25-2		
Bromomethane	ND	ug/L	5.0	1		06/10/25 12:32	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/25 12:32	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:32	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:32	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:32	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		06/10/25 12:32	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/25 12:32	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		06/10/25 12:32	108-90-7		
Chloroethane	ND	ug/L	5.0	1		06/10/25 12:32	75-00-3		
Chloroform	ND	ug/L	5.0	1		06/10/25 12:32	67-66-3		
Chloromethane	ND	ug/L	5.0	1		06/10/25 12:32	74-87-3		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-3 WT		Lab ID: 50403706002		Collected: 06/04/25 16:35		Received: 06/05/25 16:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Indiana	Analytical Method: EPA 5030/8260								
	Pace Analytical Services - Indianapolis								
2-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 12:32	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 12:32	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		06/10/25 12:32	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/25 12:32	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		06/10/25 12:32	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:32	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:32	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:32	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/10/25 12:32	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/25 12:32	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/25 12:32	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/25 12:32	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:32	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:32	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:32	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:32	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:32	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:32	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:32	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:32	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:32	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		06/10/25 12:32	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		06/10/25 12:32	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/10/25 12:32	87-68-3		
n-Hexane	ND	ug/L	5.0	1		06/10/25 12:32	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		06/10/25 12:32	591-78-6		
Iodomethane	ND	ug/L	10.0	1		06/10/25 12:32	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/25 12:32	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		06/10/25 12:32	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		06/10/25 12:32	75-09-2		
1-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 12:32	90-12-0		
2-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 12:32	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/25 12:32	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/25 12:32	1634-04-4		
Naphthalene	ND	ug/L	1.2	1		06/10/25 12:32	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		06/10/25 12:32	103-65-1		
Styrene	ND	ug/L	5.0	1		06/10/25 12:32	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 12:32	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 12:32	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		06/10/25 12:32	127-18-4		
Toluene	ND	ug/L	5.0	1		06/10/25 12:32	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:32	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:32	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/25 12:32	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/25 12:32	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		06/10/25 12:32	79-01-6		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-3 WT		Lab ID: 50403706002		Collected: 06/04/25 16:35		Received: 06/05/25 16:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Indiana		Analytical Method: EPA 5030/8260 Pace Analytical Services - Indianapolis							
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/25 12:32	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/10/25 12:32	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 12:32	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 12:32	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		06/10/25 12:32	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		06/10/25 12:32	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		06/10/25 12:32	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	96	%.	82-128	1		06/10/25 12:32	1868-53-7	pH	
4-Bromofluorobenzene (S)	98	%.	79-124	1		06/10/25 12:32	460-00-4		
Toluene-d8 (S)	93	%.	73-122	1		06/10/25 12:32	2037-26-5		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-4 WT		Lab ID: 50403706003		Collected: 06/04/25 16:57		Received: 06/05/25 16:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	2210	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:35	7440-39-3		
Cadmium	10.2	ug/L	2.0	1	06/08/25 16:14	06/11/25 00:35	7440-43-9		
Chromium	605	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:35	7440-47-3		
Lead	264	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:35	7439-92-1		
Selenium	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:35	7782-49-2		
Silver	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:35	7440-22-4		
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium, Dissolved	68.9	ug/L	50.0	1	06/19/25 11:21	06/20/25 03:40	7440-39-3		
Cadmium, Dissolved	ND	ug/L	1.0	1	06/19/25 11:21	06/20/25 03:40	7440-43-9		
Chromium, Dissolved	ND	ug/L	20.0	1	06/19/25 11:21	06/20/25 03:40	7440-47-3		
Lead, Dissolved	ND	ug/L	5.0	1	06/19/25 11:21	06/20/25 03:40	7439-92-1		
Selenium, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:40	7782-49-2		
Silver, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:40	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	6.0	1	06/13/25 11:56	06/15/25 20:25	7439-97-6		
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	2.0	1	06/18/25 11:04	06/18/25 19:06	7439-97-6		
8260 MSV Indiana		Analytical Method: EPA 5030/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/10/25 12:54	67-64-1		
Acrolein	ND	ug/L	50.0	1		06/10/25 12:54	107-02-8		
Acrylonitrile	ND	ug/L	100	1		06/10/25 12:54	107-13-1		
Benzene	ND	ug/L	5.0	1		06/10/25 12:54	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		06/10/25 12:54	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		06/10/25 12:54	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		06/10/25 12:54	75-27-4		
Bromoform	ND	ug/L	5.0	1		06/10/25 12:54	75-25-2		
Bromomethane	ND	ug/L	5.0	1		06/10/25 12:54	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/25 12:54	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:54	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:54	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		06/10/25 12:54	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		06/10/25 12:54	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/25 12:54	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		06/10/25 12:54	108-90-7		
Chloroethane	ND	ug/L	5.0	1		06/10/25 12:54	75-00-3		
Chloroform	ND	ug/L	5.0	1		06/10/25 12:54	67-66-3		
Chloromethane	ND	ug/L	5.0	1		06/10/25 12:54	74-87-3		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-4 WT		Lab ID: 50403706003		Collected: 06/04/25 16:57		Received: 06/05/25 16:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Indiana	Analytical Method: EPA 5030/8260								
	Pace Analytical Services - Indianapolis								
2-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 12:54	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 12:54	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		06/10/25 12:54	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/25 12:54	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		06/10/25 12:54	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:54	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:54	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:54	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/10/25 12:54	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/25 12:54	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/25 12:54	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/25 12:54	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:54	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:54	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 12:54	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:54	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:54	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 12:54	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:54	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:54	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 12:54	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		06/10/25 12:54	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		06/10/25 12:54	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/10/25 12:54	87-68-3		
n-Hexane	ND	ug/L	5.0	1		06/10/25 12:54	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		06/10/25 12:54	591-78-6		
Iodomethane	ND	ug/L	10.0	1		06/10/25 12:54	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/25 12:54	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		06/10/25 12:54	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		06/10/25 12:54	75-09-2		
1-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 12:54	90-12-0		
2-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 12:54	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/25 12:54	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/25 12:54	1634-04-4		
Naphthalene	ND	ug/L	1.2	1		06/10/25 12:54	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		06/10/25 12:54	103-65-1		
Styrene	ND	ug/L	5.0	1		06/10/25 12:54	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 12:54	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 12:54	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		06/10/25 12:54	127-18-4		
Toluene	ND	ug/L	5.0	1		06/10/25 12:54	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:54	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 12:54	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/25 12:54	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/25 12:54	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		06/10/25 12:54	79-01-6		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-4 WT		Lab ID: 50403706003		Collected: 06/04/25 16:57		Received: 06/05/25 16:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Indiana		Analytical Method: EPA 5030/8260 Pace Analytical Services - Indianapolis							
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/25 12:54	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/10/25 12:54	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 12:54	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 12:54	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		06/10/25 12:54	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		06/10/25 12:54	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		06/10/25 12:54	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	96	%.	82-128	1		06/10/25 12:54	1868-53-7	pH	
4-Bromofluorobenzene (S)	100	%.	79-124	1		06/10/25 12:54	460-00-4		
Toluene-d8 (S)	95	%.	73-122	1		06/10/25 12:54	2037-26-5		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-5 WT		Lab ID: 50403706004		Collected: 06/04/25 17:14		Received: 06/05/25 16:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	335	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:37	7440-39-3		
Cadmium	ND	ug/L	2.0	1	06/08/25 16:14	06/11/25 00:37	7440-43-9		
Chromium	23.5	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:37	7440-47-3		
Lead	30.0	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:37	7439-92-1		
Selenium	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:37	7782-49-2		
Silver	ND	ug/L	10.0	1	06/08/25 16:14	06/11/25 00:37	7440-22-4		
6010 MET ICP, Lab Filtered		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium, Dissolved	77.1	ug/L	50.0	1	06/19/25 11:21	06/20/25 03:42	7440-39-3		
Cadmium, Dissolved	ND	ug/L	1.0	1	06/19/25 11:21	06/20/25 03:42	7440-43-9		
Chromium, Dissolved	ND	ug/L	20.0	1	06/19/25 11:21	06/20/25 03:42	7440-47-3		
Lead, Dissolved	ND	ug/L	5.0	1	06/19/25 11:21	06/20/25 03:42	7439-92-1		
Selenium, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:42	7782-49-2		
Silver, Dissolved	ND	ug/L	10.0	1	06/19/25 11:21	06/20/25 03:42	7440-22-4		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	06/13/25 11:56	06/15/25 20:27	7439-97-6		
7470 Mercury, Lab Filtered		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	2.0	1	06/18/25 11:04	06/18/25 19:08	7439-97-6		
8260 MSV Indiana		Analytical Method: EPA 5030/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/10/25 13:16	67-64-1		
Acrolein	ND	ug/L	50.0	1		06/10/25 13:16	107-02-8		
Acrylonitrile	ND	ug/L	100	1		06/10/25 13:16	107-13-1		
Benzene	ND	ug/L	5.0	1		06/10/25 13:16	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		06/10/25 13:16	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		06/10/25 13:16	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		06/10/25 13:16	75-27-4		
Bromoform	ND	ug/L	5.0	1		06/10/25 13:16	75-25-2		
Bromomethane	ND	ug/L	5.0	1		06/10/25 13:16	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/25 13:16	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		06/10/25 13:16	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		06/10/25 13:16	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		06/10/25 13:16	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		06/10/25 13:16	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/25 13:16	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		06/10/25 13:16	108-90-7		
Chloroethane	ND	ug/L	5.0	1		06/10/25 13:16	75-00-3		
Chloroform	ND	ug/L	5.0	1		06/10/25 13:16	67-66-3		
Chloromethane	ND	ug/L	5.0	1		06/10/25 13:16	74-87-3		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-5 WT		Lab ID: 50403706004		Collected: 06/04/25 17:14		Received: 06/05/25 16:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Indiana	Analytical Method: EPA 5030/8260								
	Pace Analytical Services - Indianapolis								
2-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 13:16	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 13:16	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		06/10/25 13:16	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/25 13:16	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		06/10/25 13:16	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:16	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:16	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:16	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/10/25 13:16	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/25 13:16	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/25 13:16	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/25 13:16	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/25 13:16	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 13:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 13:16	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 13:16	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		06/10/25 13:16	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 13:16	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		06/10/25 13:16	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 13:16	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 13:16	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		06/10/25 13:16	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		06/10/25 13:16	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/10/25 13:16	87-68-3		
n-Hexane	ND	ug/L	5.0	1		06/10/25 13:16	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		06/10/25 13:16	591-78-6		
Iodomethane	ND	ug/L	10.0	1		06/10/25 13:16	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/25 13:16	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		06/10/25 13:16	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		06/10/25 13:16	75-09-2		
1-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 13:16	90-12-0		
2-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 13:16	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/25 13:16	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/25 13:16	1634-04-4		
Naphthalene	ND	ug/L	1.2	1		06/10/25 13:16	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		06/10/25 13:16	103-65-1		
Styrene	ND	ug/L	5.0	1		06/10/25 13:16	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 13:16	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 13:16	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		06/10/25 13:16	127-18-4		
Toluene	ND	ug/L	5.0	1		06/10/25 13:16	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:16	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:16	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/25 13:16	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/25 13:16	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		06/10/25 13:16	79-01-6		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: B-5 WT		Lab ID: 50403706004		Collected: 06/04/25 17:14		Received: 06/05/25 16:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260							
		Pace Analytical Services - Indianapolis							
Trichlorofluoromethane		ND	ug/L	5.0	1		06/10/25 13:16	75-69-4	
1,2,3-Trichloropropane		ND	ug/L	5.0	1		06/10/25 13:16	96-18-4	
1,2,4-Trimethylbenzene		ND	ug/L	5.0	1		06/10/25 13:16	95-63-6	
1,3,5-Trimethylbenzene		ND	ug/L	5.0	1		06/10/25 13:16	108-67-8	
Vinyl acetate		ND	ug/L	50.0	1		06/10/25 13:16	108-05-4	
Vinyl chloride		ND	ug/L	2.0	1		06/10/25 13:16	75-01-4	
Xylene (Total)		ND	ug/L	10.0	1		06/10/25 13:16	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		96	%.	82-128	1		06/10/25 13:16	1868-53-7	
4-Bromofluorobenzene (S)		98	%.	79-124	1		06/10/25 13:16	460-00-4	
Toluene-d8 (S)		94	%.	73-122	1		06/10/25 13:16	2037-26-5	

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: Trip Blank		Lab ID: 50403706005		Collected: 06/04/25 14:00		Received: 06/05/25 16:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana		Analytical Method: EPA 5030/8260							
		Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/10/25 13:38	67-64-1		
Acrolein	ND	ug/L	50.0	1		06/10/25 13:38	107-02-8		
Acrylonitrile	ND	ug/L	100	1		06/10/25 13:38	107-13-1		
Benzene	ND	ug/L	5.0	1		06/10/25 13:38	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		06/10/25 13:38	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		06/10/25 13:38	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		06/10/25 13:38	75-27-4		
Bromoform	ND	ug/L	5.0	1		06/10/25 13:38	75-25-2		
Bromomethane	ND	ug/L	5.0	1		06/10/25 13:38	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/25 13:38	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		06/10/25 13:38	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		06/10/25 13:38	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		06/10/25 13:38	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		06/10/25 13:38	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/25 13:38	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		06/10/25 13:38	108-90-7		
Chloroethane	ND	ug/L	5.0	1		06/10/25 13:38	75-00-3		
Chloroform	ND	ug/L	5.0	1		06/10/25 13:38	67-66-3		
Chloromethane	ND	ug/L	5.0	1		06/10/25 13:38	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 13:38	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		06/10/25 13:38	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		06/10/25 13:38	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/25 13:38	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		06/10/25 13:38	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:38	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:38	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:38	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/10/25 13:38	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/25 13:38	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/25 13:38	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/25 13:38	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/25 13:38	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 13:38	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/25 13:38	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 13:38	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		06/10/25 13:38	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		06/10/25 13:38	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		06/10/25 13:38	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 13:38	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/25 13:38	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		06/10/25 13:38	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		06/10/25 13:38	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/10/25 13:38	87-68-3		
n-Hexane	ND	ug/L	5.0	1		06/10/25 13:38	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		06/10/25 13:38	591-78-6		
Iodomethane	ND	ug/L	10.0	1		06/10/25 13:38	74-88-4		

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ANALYTICAL RESULTS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Sample: Trip Blank		Lab ID: 50403706005		Collected: 06/04/25 14:00		Received: 06/05/25 16:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV Indiana		Analytical Method: EPA 5030/8260							
		Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/25 13:38	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		06/10/25 13:38	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		06/10/25 13:38	75-09-2		
1-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 13:38	90-12-0		
2-Methylnaphthalene	ND	ug/L	10.0	1		06/10/25 13:38	91-57-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/25 13:38	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/25 13:38	1634-04-4		
Naphthalene	ND	ug/L	1.2	1		06/10/25 13:38	91-20-3		
n-Propylbenzene	ND	ug/L	5.0	1		06/10/25 13:38	103-65-1		
Styrene	ND	ug/L	5.0	1		06/10/25 13:38	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 13:38	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/25 13:38	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		06/10/25 13:38	127-18-4		
Toluene	ND	ug/L	5.0	1		06/10/25 13:38	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:38	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/25 13:38	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/25 13:38	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/25 13:38	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		06/10/25 13:38	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/25 13:38	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/10/25 13:38	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 13:38	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/10/25 13:38	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		06/10/25 13:38	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		06/10/25 13:38	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		06/10/25 13:38	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	97	%.	82-128	1		06/10/25 13:38	1868-53-7		
4-Bromofluorobenzene (S)	99	%.	79-124	1		06/10/25 13:38	460-00-4		
Toluene-d8 (S)	95	%.	73-122	1		06/10/25 13:38	2037-26-5		

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

QC Batch: 848972

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory:

Pace Analytical Services - Indianapolis

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

METHOD BLANK: 3888637

Matrix: Water

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	06/15/25 19:24	

LABORATORY CONTROL SAMPLE: 3888638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3888639 3888640

Parameter	Units	50403905006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	4.9	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

QC Batch: 849527

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury Dissolved

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

METHOD BLANK: 3891167

Matrix: Water

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	2.0	06/18/25 18:37	

LABORATORY CONTROL SAMPLE: 3891168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3891169 3891170

Parameter	Units	50404146003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.1	5.2	100	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

QC Batch: 848043

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

METHOD BLANK: 3884327

Matrix: Water

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	06/10/25 23:27	
Cadmium	ug/L	ND	2.0	06/10/25 23:27	
Chromium	ug/L	ND	10.0	06/10/25 23:27	
Lead	ug/L	ND	10.0	06/10/25 23:27	
Selenium	ug/L	ND	10.0	06/10/25 23:27	
Silver	ug/L	ND	10.0	06/10/25 23:27	

LABORATORY CONTROL SAMPLE: 3884328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	947	95	80-120	
Cadmium	ug/L	1000	952	95	80-120	
Chromium	ug/L	1000	943	94	80-120	
Lead	ug/L	1000	924	92	80-120	
Selenium	ug/L	1000	958	96	80-120	
Silver	ug/L	500	459	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3884329 3884330

Parameter	Units	50403706001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	217	1000	1000	1150	1190	93	97	75-125	3	20	
Cadmium	ug/L	ND	1000	1000	966	1000	97	100	75-125	4	20	
Chromium	ug/L	ND	1000	1000	940	962	94	96	75-125	2	20	
Lead	ug/L	ND	1000	1000	892	923	88	91	75-125	3	20	
Selenium	ug/L	ND	1000	1000	969	998	97	100	75-125	3	20	
Silver	ug/L	ND	500	500	478	487	96	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

QC Batch:	849646	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

METHOD BLANK: 3891869 Matrix: Water

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium, Dissolved	ug/L	ND	50.0	06/20/25 03:32	
Cadmium, Dissolved	ug/L	ND	1.0	06/20/25 03:32	
Chromium, Dissolved	ug/L	ND	20.0	06/20/25 03:32	
Lead, Dissolved	ug/L	ND	5.0	06/20/25 03:32	
Selenium, Dissolved	ug/L	ND	10.0	06/20/25 03:32	
Silver, Dissolved	ug/L	ND	10.0	06/20/25 03:32	

LABORATORY CONTROL SAMPLE: 3891870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	ug/L	1000	1040	104	80-120	
Cadmium, Dissolved	ug/L	1000	1010	101	80-120	
Chromium, Dissolved	ug/L	1000	1020	102	80-120	
Lead, Dissolved	ug/L	1000	983	98	80-120	
Selenium, Dissolved	ug/L	1000	980	98	80-120	
Silver, Dissolved	ug/L	500	493	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3891871 3891872

Parameter	Units	50404713001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	ug/L	28.6	1000	1000	1110	1120	108	110	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	1080	1080	108	108	75-125	0	20	
Chromium, Dissolved	ug/L	ND	1000	1000	1060	1040	105	104	75-125	2	20	
Lead, Dissolved	ug/L	ND	1000	1000	964	964	96	96	75-125	0	20	
Selenium, Dissolved	ug/L	ND	1000	1000	1070	1070	107	107	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	541	533	108	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

QC Batch: 848313

Analysis Method: EPA 5030/8260

QC Batch Method: EPA 5030/8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004, 50403706005

METHOD BLANK: 3885599

Matrix: Water

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004, 50403706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/10/25 10:00	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/10/25 10:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/10/25 10:00	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/10/25 10:00	
1,1-Dichloroethane	ug/L	ND	5.0	06/10/25 10:00	
1,1-Dichloroethene	ug/L	ND	5.0	06/10/25 10:00	
1,1-Dichloropropene	ug/L	ND	5.0	06/10/25 10:00	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/10/25 10:00	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/10/25 10:00	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/25 10:00	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/10/25 10:00	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/10/25 10:00	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/10/25 10:00	
1,2-Dichloroethane	ug/L	ND	5.0	06/10/25 10:00	
1,2-Dichloropropane	ug/L	ND	5.0	06/10/25 10:00	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/10/25 10:00	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/10/25 10:00	
1,3-Dichloropropane	ug/L	ND	5.0	06/10/25 10:00	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/10/25 10:00	
1-Methylnaphthalene	ug/L	ND	10.0	06/10/25 10:00	
2,2-Dichloropropane	ug/L	ND	5.0	06/10/25 10:00	
2-Butanone (MEK)	ug/L	ND	25.0	06/10/25 10:00	
2-Chlorotoluene	ug/L	ND	5.0	06/10/25 10:00	
2-Hexanone	ug/L	ND	25.0	06/10/25 10:00	
2-Methylnaphthalene	ug/L	ND	10.0	06/10/25 10:00	
4-Chlorotoluene	ug/L	ND	5.0	06/10/25 10:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/10/25 10:00	
Acetone	ug/L	ND	100	06/10/25 10:00	
Acrolein	ug/L	ND	50.0	06/10/25 10:00	
Acrylonitrile	ug/L	ND	100	06/10/25 10:00	
Benzene	ug/L	ND	5.0	06/10/25 10:00	
Bromobenzene	ug/L	ND	5.0	06/10/25 10:00	
Bromochloromethane	ug/L	ND	5.0	06/10/25 10:00	
Bromodichloromethane	ug/L	ND	5.0	06/10/25 10:00	
Bromoform	ug/L	ND	5.0	06/10/25 10:00	
Bromomethane	ug/L	ND	5.0	06/10/25 10:00	
Carbon disulfide	ug/L	ND	10.0	06/10/25 10:00	
Carbon tetrachloride	ug/L	ND	5.0	06/10/25 10:00	
Chlorobenzene	ug/L	ND	5.0	06/10/25 10:00	
Chloroethane	ug/L	ND	5.0	06/10/25 10:00	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

METHOD BLANK: 3885599

Matrix: Water

Associated Lab Samples: 50403706001, 50403706002, 50403706003, 50403706004, 50403706005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	5.0	06/10/25 10:00	
Chloromethane	ug/L	ND	5.0	06/10/25 10:00	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/10/25 10:00	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/10/25 10:00	
Dibromochloromethane	ug/L	ND	5.0	06/10/25 10:00	
Dibromomethane	ug/L	ND	5.0	06/10/25 10:00	
Dichlorodifluoromethane	ug/L	ND	5.0	06/10/25 10:00	
Ethyl methacrylate	ug/L	ND	100	06/10/25 10:00	
Ethylbenzene	ug/L	ND	5.0	06/10/25 10:00	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/10/25 10:00	
Iodomethane	ug/L	ND	10.0	06/10/25 10:00	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/10/25 10:00	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/10/25 10:00	
Methylene Chloride	ug/L	ND	5.0	06/10/25 10:00	
n-Butylbenzene	ug/L	ND	5.0	06/10/25 10:00	
n-Hexane	ug/L	ND	5.0	06/10/25 10:00	
n-Propylbenzene	ug/L	ND	5.0	06/10/25 10:00	
Naphthalene	ug/L	ND	1.2	06/10/25 10:00	
p-Isopropyltoluene	ug/L	ND	5.0	06/10/25 10:00	
sec-Butylbenzene	ug/L	ND	5.0	06/10/25 10:00	
Styrene	ug/L	ND	5.0	06/10/25 10:00	
tert-Butylbenzene	ug/L	ND	5.0	06/10/25 10:00	
Tetrachloroethene	ug/L	ND	5.0	06/10/25 10:00	
Toluene	ug/L	ND	5.0	06/10/25 10:00	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/10/25 10:00	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/10/25 10:00	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/10/25 10:00	
Trichloroethene	ug/L	ND	5.0	06/10/25 10:00	
Trichlorofluoromethane	ug/L	ND	5.0	06/10/25 10:00	
Vinyl acetate	ug/L	ND	50.0	06/10/25 10:00	
Vinyl chloride	ug/L	ND	2.0	06/10/25 10:00	
Xylene (Total)	ug/L	ND	10.0	06/10/25 10:00	
4-Bromofluorobenzene (S)	%	98	79-124	06/10/25 10:00	
Dibromofluoromethane (S)	%	96	82-128	06/10/25 10:00	
Toluene-d8 (S)	%	94	73-122	06/10/25 10:00	

LABORATORY CONTROL SAMPLE: 3885600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.0	100	78-129	
1,1,1-Trichloroethane	ug/L	50	47.5	95	70-128	
1,1,2,2-Tetrachloroethane	ug/L	50	42.1	84	69-126	
1,1,2-Trichloroethane	ug/L	50	44.8	90	77-125	
1,1-Dichloroethane	ug/L	50	44.7	89	75-120	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

LABORATORY CONTROL SAMPLE: 3885600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	48.2	96	59-128	
1,1-Dichloropropene	ug/L	50	53.7	107	79-135	
1,2,3-Trichlorobenzene	ug/L	50	53.2	106	69-144	
1,2,3-Trichloropropane	ug/L	50	44.6	89	75-128	
1,2,4-Trichlorobenzene	ug/L	50	52.9	106	67-139	
1,2,4-Trimethylbenzene	ug/L	50	47.2	94	71-121	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	78-125	
1,2-Dichlorobenzene	ug/L	50	48.2	96	79-120	
1,2-Dichloroethane	ug/L	50	42.4	85	61-127	
1,2-Dichloropropane	ug/L	50	47.4	95	75-124	
1,3,5-Trimethylbenzene	ug/L	50	47.4	95	71-122	
1,3-Dichlorobenzene	ug/L	50	49.2	98	78-120	
1,3-Dichloropropane	ug/L	50	46.3	93	76-123	
1,4-Dichlorobenzene	ug/L	50	51.1	102	80-119	
1-Methylnaphthalene	ug/L	50	51.6	103	28-200	
2,2-Dichloropropane	ug/L	50	48.2	96	50-147	
2-Butanone (MEK)	ug/L	250	203	81	64-136	
2-Chlorotoluene	ug/L	50	47.3	95	74-119	
2-Hexanone	ug/L	250	203	81	59-134	
2-Methylnaphthalene	ug/L	50	48.2	96	23-200	
4-Chlorotoluene	ug/L	50	50.7	101	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	205	82	62-133	
Acetone	ug/L	250	185	74	34-156	
Acrolein	ug/L	1000	758	76	46-156	
Acrylonitrile	ug/L	250	205	82	67-146	
Benzene	ug/L	50	48.8	98	76-120	
Bromobenzene	ug/L	50	46.4	93	73-121	
Bromochloromethane	ug/L	50	42.4	85	69-120	
Bromodichloromethane	ug/L	50	47.8	96	79-127	
Bromoform	ug/L	50	46.9	94	76-135	
Bromomethane	ug/L	50	26.1	52	10-181	
Carbon disulfide	ug/L	50	44.7	89	63-133	
Carbon tetrachloride	ug/L	50	50.4	101	70-131	
Chlorobenzene	ug/L	50	48.9	98	77-118	
Chloroethane	ug/L	50	56.2	112	31-159	
Chloroform	ug/L	50	46.6	93	74-122	
Chloromethane	ug/L	50	28.4	57	38-151	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	78-121	
cis-1,3-Dichloropropene	ug/L	50	47.0	94	75-136	
Dibromochloromethane	ug/L	50	48.8	98	80-132	
Dibromomethane	ug/L	50	47.2	94	78-122	
Dichlorodifluoromethane	ug/L	50	45.6	91	10-172	
Ethyl methacrylate	ug/L	50	51.5J	103	72-147	
Ethylbenzene	ug/L	50	49.9	100	76-124	
Hexachloro-1,3-butadiene	ug/L	50	58.9	118	70-135	
Iodomethane	ug/L	50	31.5	63	10-143	
Isopropylbenzene (Cumene)	ug/L	50	50.0	100	66-113	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

LABORATORY CONTROL SAMPLE: 3885600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methyl-tert-butyl ether	ug/L	50	45.7	91	74-124	
Methylene Chloride	ug/L	50	41.3	83	64-134	
n-Butylbenzene	ug/L	50	48.0	96	69-130	
n-Hexane	ug/L	50	45.1	90	51-127	
n-Propylbenzene	ug/L	50	47.9	96	67-127	
Naphthalene	ug/L	50	47.3	95	66-143	
p-Isopropyltoluene	ug/L	50	49.6	99	75-125	
sec-Butylbenzene	ug/L	50	48.8	98	71-126	
Styrene	ug/L	50	49.0	98	79-125	
tert-Butylbenzene	ug/L	50	53.7	107	73-125	
Tetrachloroethene	ug/L	50	56.4	113	71-122	
Toluene	ug/L	50	46.6	93	72-117	
trans-1,2-Dichloroethene	ug/L	50	49.8	100	74-121	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	73-132	
trans-1,4-Dichloro-2-butene	ug/L	50	43.4J	87	57-137	
Trichloroethene	ug/L	50	50.8	102	75-124	
Trichlorofluoromethane	ug/L	50	61.1	122	55-142	
Vinyl acetate	ug/L	200	173	87	66-193	
Vinyl chloride	ug/L	50	45.1	90	50-150	
Xylene (Total)	ug/L	150	147	98	73-119	
4-Bromofluorobenzene (S)	%.			98	79-124	
Dibromofluoromethane (S)	%.			90	82-128	
Toluene-d8 (S)	%.			96	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3885601 3885602

Parameter	Units	50403540004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	49.2	51.2	98	102	50-147	4	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	45.9	47.5	92	95	50-149	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	40.4	41.7	81	83	48-139	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	44.7	45.2	89	90	51-143	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	43.9	45.1	88	90	49-144	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	45.4	46.6	91	93	45-146	3	20	
1,1-Dichloropropene	ug/L	ND	50	50	50.4	51.7	101	103	55-157	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	43.5	48.0	87	96	30-155	10	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	43.3	44.8	87	90	47-146	3	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	39.2	44.6	78	89	25-148	13	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	38.8	44.3	78	89	37-139	13	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	48.4	48.7	97	97	56-140	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	42.0	46.0	84	92	43-139	9	20	
1,2-Dichloroethane	ug/L	ND	50	50	42.3	43.2	85	86	45-143	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	46.7	48.1	93	96	53-144	3	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	39.4	44.7	79	89	35-141	13	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	40.7	45.3	81	91	39-138	11	20	

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3885601 3885602											
Parameter	Units	50403540004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,3-Dichloropropane	ug/L	ND	50	50	46.0	46.9	92	94	52-140	2	20
1,4-Dichlorobenzene	ug/L	ND	50	50	42.5	47.6	85	95	38-140	11	20
1-Methylnaphthalene	ug/L	ND	50	50	45.5	49.3	91	99	12-185	8	20
2,2-Dichloropropane	ug/L	ND	50	50	44.5	46.7	89	93	27-149	5	20
2-Butanone (MEK)	ug/L	ND	250	250	196	199	79	80	38-153	1	20
2-Chlorotoluene	ug/L	ND	50	50	40.4	44.8	81	90	37-141	10	20
2-Hexanone	ug/L	ND	250	250	196	200	78	80	39-143	2	20
2-Methylnaphthalene	ug/L	ND	50	50	40.1	43.6	80	87	10-189	8	20
4-Chlorotoluene	ug/L	ND	50	50	41.9	46.9	84	94	36-142	11	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	201	202	80	81	42-142	1	20
Acetone	ug/L	ND	250	250	180	176	72	70	32-141	3	20
Acrolein	ug/L	ND	1000	1000	661	652	66	65	26-153	1	20
Acrylonitrile	ug/L	ND	250	250	206	199	83	80	48-148	4	20
Benzene	ug/L	ND	50	50	47.9	49.2	96	98	50-143	3	20
Bromobenzene	ug/L	ND	50	50	43.3	45.5	87	91	46-136	5	20
Bromochloromethane	ug/L	ND	50	50	42.6	42.4	85	85	48-139	0	20
Bromodichloromethane	ug/L	ND	50	50	47.2	47.1	94	94	50-149	0	20
Bromoform	ug/L	ND	50	50	45.3	47.0	91	94	44-150	4	20
Bromomethane	ug/L	ND	50	50	26.1	28.7	52	57	10-177	9	20
Carbon disulfide	ug/L	ND	50	50	39.3	40.8	79	82	47-142	4	20
Carbon tetrachloride	ug/L	ND	50	50	47.8	49.2	96	98	46-155	3	20
Chlorobenzene	ug/L	ND	50	50	45.9	49.0	92	98	52-136	6	20
Chloroethane	ug/L	ND	50	50	45.8	48.0	92	96	26-171	5	20
Chloroform	ug/L	ND	50	50	45.7	47.3	91	95	53-143	3	20
Chloromethane	ug/L	ND	50	50	22.5	23.2	45	46	30-162	3	20
cis-1,2-Dichloroethene	ug/L	9.8	50	50	56.8	58.4	94	97	49-147	3	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.5	46.3	89	93	48-146	4	20
Dibromochloromethane	ug/L	ND	50	50	47.9	49.5	96	99	52-149	3	20
Dibromomethane	ug/L	ND	50	50	47.2	48.1	94	96	50-144	2	20
Dichlorodifluoromethane	ug/L	ND	50	50	20.4	20.9	41	42	10-190	2	20
Ethyl methacrylate	ug/L	ND	50	50	50.6J	52J	101	104	51-156		20
Ethylbenzene	ug/L	ND	50	50	45.6	49.4	91	99	43-145	8	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	38.9	51.3	78	103	11-156	28	R1
Iodomethane	ug/L	ND	50	50	40.9	41.3	82	83	10-144	1	20
Isopropylbenzene (Cumene)	ug/L	ND	50	50	44.7	49.2	89	98	39-128	10	20
Methyl-tert-butyl ether	ug/L	ND	50	50	44.9	45.1	90	90	50-144	1	20
Methylene Chloride	ug/L	ND	50	50	41.5	42.3	83	85	40-150	2	20
n-Butylbenzene	ug/L	ND	50	50	33.9	42.0	68	84	21-150	21	R1
n-Hexane	ug/L	ND	50	50	39.1	39.4	78	79	39-132	1	20
n-Propylbenzene	ug/L	ND	50	50	39.4	44.6	79	89	31-144	12	20
Naphthalene	ug/L	ND	50	50	42.8	45.5	86	91	43-148	6	20
p-Isopropyltoluene	ug/L	ND	50	50	38.7	45.4	77	91	27-147	16	20
sec-Butylbenzene	ug/L	ND	50	50	39.1	45.4	78	91	32-148	15	20
Styrene	ug/L	ND	50	50	44.6	48.5	89	97	45-145	8	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3885601 3885602												
		50403540004	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits		Max	
Parameter	Units	Result								RPD	RPD	Qual
tert-Butylbenzene	ug/L	ND	50	50	46.2	52.1	92	104	36-144	12	20	
Tetrachloroethene	ug/L	ND	50	50	48.8	53.3	98	107	46-146	9	20	
Toluene	ug/L	ND	50	50	44.6	47.1	89	94	48-135	5	20	
trans-1,2-Dichloroethene	ug/L	0.36J	50	50	46.2	47.8	92	95	52-139	4	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	44.3	45.8	89	92	45-144	3	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	42.7J	43.7J	85	87	30-144		20	
Trichloroethene	ug/L	4.7J	50	50	52.3	53.5	95	98	46-148	2	20	
Trichlorofluoromethane	ug/L	ND	50	50	53.7	54.9	107	110	43-160	2	20	
Vinyl acetate	ug/L	ND	200	200	148	148	74	74	23-195	1	20	
Vinyl chloride	ug/L	ND	50	50	36.6	37.6	73	75	38-167	3	20	
Xylene (Total)	ug/L	ND	150	150	133	145	88	97	45-139	9	20	
4-Bromofluorobenzene (S)	%						97	97	79-124			
Dibromofluoromethane (S)	%						90	90	82-128			
Toluene-d8 (S)	%						96	98	73-122			

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QUALIFIERS

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: INDOT Westfield (170DOT0130)

Pace Project No.: 50403706

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50403706001	B-2 WT	EPA 3010	848043	EPA 6010	848491
50403706002	B-3 WT	EPA 3010	848043	EPA 6010	848491
50403706003	B-4 WT	EPA 3010	848043	EPA 6010	848491
50403706004	B-5 WT	EPA 3010	848043	EPA 6010	848491
50403706001	B-2 WT	EPA 3010	849646	EPA 6010	850129
50403706002	B-3 WT	EPA 3010	849646	EPA 6010	850129
50403706003	B-4 WT	EPA 3010	849646	EPA 6010	850129
50403706004	B-5 WT	EPA 3010	849646	EPA 6010	850129
50403706001	B-2 WT	EPA 7470	848972	EPA 7470	849240
50403706002	B-3 WT	EPA 7470	848972	EPA 7470	849240
50403706003	B-4 WT	EPA 7470	848972	EPA 7470	849240
50403706004	B-5 WT	EPA 7470	848972	EPA 7470	849240
50403706001	B-2 WT	EPA 7470	849527	EPA 7470	849832
50403706002	B-3 WT	EPA 7470	849527	EPA 7470	849832
50403706003	B-4 WT	EPA 7470	849527	EPA 7470	849832
50403706004	B-5 WT	EPA 7470	849527	EPA 7470	849832
50403706001	B-2 WT	EPA 5030/8260	848313		
50403706002	B-3 WT	EPA 5030/8260	848313		
50403706003	B-4 WT	EPA 5030/8260	848313		
50403706004	B-5 WT	EPA 5030/8260	848313		
50403706005	Trip Blank	EPA 5030/8260	848313		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MM 2146 605.25

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. Cooler Temperature(s):

1.3/1.3

(Initial/Corrected)

RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Was the PM notified of out of temp cooler?:

(leave blank if samples are in temp)

Yes No

Cooler temp should be above freezing to 6°C

If the PM was contacted in the comments below please write how they instructed the project to proceed

3. Packing Material:

Bubble Wrap

None

Bubble Bags

Other

4. Ice Type:

Blue

None

5. Courier:

Fed Ex

UPS

Client

Now/Jett

Other

6. Custody Seal on Cooler/Box Present:

Yes

No

(leave blank if no seals were present)

All discrepancies will be written out in the comments section below.

		Yes	No	Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/		/		
Short Hold Time Analysis (48 hours or less)?		/		/		
Analysis:						
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		/				
Custody Signatures Present?		/		Present	Absent	No VOA Vials Sent
Containers Intact?:		/		/		
Sample Label (IDs/Dates/Times) Match COC?:		/		/		
Except TCs, which only require sample ID						
Comments:						

Sample Container Count

COC PAGE _____ of _____

** Place a PINK dot on containers that are out of conformance **

COC Line Item	AMBER GLASS			PLASTIC										OTHER			Sulfuric Acid														
	MeOH (only)	SBS	DI	VOA VIAL HS (>6mm)	DG9H	DG9U	VG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Matrix	Nitric	Sulfuric	Sodium Hydroxide/ZnAc
1					DG9H															BP3N											
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass										Plastic									
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	NT3U	Non Teflon 250mL unpreserved plastic	BP4U	125mL unpreserved plastic	Miscellaneous									
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4U	125mL unpreserved plastic	BP4N	125mL HNO3 plastic										
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4N	125mL HNO3 plastic	BP4S	125mL H2SO4 plastic										
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	BP4S	125mL H2SO4 plastic												
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac					Miscellaneous									
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic														
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic														
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic														
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic														
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac														
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic														
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic														
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered														
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic														
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic														
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic														