INITIAL SITE CHARACTERIZATION REPORT
Circle K #42
602 South Indiana Avenue
Sellersburg, Indiana 47172
IDEM Facility ID Number: 10442
IDEM Incident Number: 202402503
American Environmental Project 441014

June 26, 2024

PREPARED FOR:

Mr. Aaron Fix
Indiana Department of Environmental Management
Office of Land Quality
Petroleum Remediation Section
100 North Senate Avenue, Room 1101
Indianapolis, Indiana 46204-2251

PREPARED BY:

American Environmental Corporation
8500 Georgetown Road
Indianapolis, Indiana 46268

June 26, 2024

Mr. Aaron Fix
Indiana Department of Environmental Management
Office of Land Quality
Petroleum Remediation Section
100 North Senate Avenue, Room 1101
Indianapolis, Indiana 46204-2251

RE: **Initial Site Characterization Report**
Circle K #42
602 South Indiana Avenue
Sellersburg, Indiana 47172
IDEM Facility ID Number: 10442
IDEM Incident Number: 202402503
American Environmental Project 441014

Dear Mr. Fix:

Mac's Convenience Stores, LLC is submitting the following Initial Site Characterization (ISC) Report for the above referenced project and incident number. The ISC Report was prepared in accordance with 329 Indiana Administrative Code 9-5-5.1 and IDEM's Risk-based Closure Guide (R2CG).

We trust that this submittal is responsive to your needs and if you have any questions, please contact us at (317) 871-4090.

Sincerely,
AMERICAN ENVIRONMENTAL CORPORATION

James E. Madding
Project Manager

Audrey S. Kortz L.P.G. IN #619, C.H.M.M. #2011
Vice President, Technical Services

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TABLE OF CONTENTS

Page

Executive Summary 1
1.0 SITE DESCRIPTION 1
1.1 Regional Location 1
1.2 Site Location 1
1.3 Regional Geologic and Hydrologic Information 1
1.4 Site-Specific Geologic and Hydrologic Information 3
2.0 SITE HISTORY 3
2.1 Land Use History 3
2.2 Overview of Previous Environmental Investigations 3
2.3 Reason for Performing ISC Investigation 3
3.0 SITE CONDITIONS 4
3.1 Determination of Present and Future Land Use 4
3.2 Assessment of Potentially Susceptible Areas 4
3.3 Potential Exposure Pathways 4
3.4 Chemicals of Concern 5
4.0 SITE INVESTIGATION 5
4.1 Sampling Objectives and Rationale 5
4.2 Soil Sampling Event 6
4.3 Soil Analytical Results 6
4.4 Groundwater Sampling Event 6
4.5 Groundwater Analytical Results 7
4.6 Vapor Intrusion Evaluation 7
5.0 CONCLUSIONS AND RECOMMENDATIONS 7
5.1 Conclusions 8
5.2 Recommendations 8
6.0 REFERENCES 8
7.0 SIGNATURE 9

TABLE OF CONTENTS
Continued

FIGURES

Figure 1. Vicinity Map
Figure 2. Site Map
Figure 3. Low Capacity Water Well Map
Figure 4. High Capacity Water Well Map
Figure 5. Cross-Section Location Map
Figure 6. Cross-Section A to A’
Figure 7. Cross-Section B to B’
Figure 8. Soil Analytical Results Map
Figure 9. Groundwater Flow Map – June 6, 2024
Figure 10. Groundwater Analytical Results Map

TABLES

Table 1. Facility and Responsible Party Information
Table 2. Site UST Information
Table 3. Release Incident Description
Table 4. Chemicals of Concern
Table 5. Soil VOC Analytical Results
Table 6. Soil PAH Analytical Results
Table 7. Groundwater Gauging Data
Table 8. Groundwater VOC Analytical Results
Table 9. Groundwater PAH Analytical Results

APPENDICES

Appendix A: Low and High Capacity Water Well Records
Appendix B: Soil Boring Logs/Monitoring Well Construction Diagrams
Appendix C: Tank Tightness Testing Documentation
Appendix D: Wellhead Protection Area Determination Map
Appendix E: Laboratory Analytical Reports

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Circle K #42
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IDEM Facility ID Number: 10442
IDEM Incident Number: 202402503
American Environmental Project 441014

Executive Summary

A suspected release from the underground storage tank (UST) system was reported to the Indiana Department of Environmental Management (IDEM) at Circle K #42 on February 12, 2024 by American Environmental Corporation (American Environmental) personnel, Mr. James Madding. The kerosene STP was observed leaking into the soil and there is no containment for the kerosene UST.

The IDEM assigned the facility Leaking Underground Storage Tank (LUST) Incident Number 202402503.

IDEM issued a Release Investigation and Confirmation Steps request letter dated February 12, 2024. A site check investigation revealed detectable volatile organic compound (VOC) concentrations in the soil and groundwater samples. In their letter dated April 26, 2024 the IDEM requested an Initial Site Characterization (ISC).

1.0 SITE DESCRIPTION

1.1 Regional Location

The site is located in the USGS Speed Quadrangle Map in Township 17 North, Range 4 East, Section 12. The regional topography is relatively flat with a slight slope to the south and the overall regional slope to the southwest. A Site Vicinity Map is provided as **Figure 1**.

1.2 Site Location

The site is located in a mixed residential and commercial area on the south side of Sellersburg, Indiana. The site is bordered to the north by S. Indiana Avenue and Jim O'Neal Ford, to the south by Jamal Auto Sales and a former carwash, to the east by ES Indiana Avenue and Dixon Racing Supply, and to the west by Popp Avenue, Marie's Place Barber and Beauty Salon, and Popp Music Academy. A Site Map is provided as **Figure 2**.

1.3 Regional Geologic and Hydrologic Information

1.3.1 Soils

The USDA Soil Survey of Clark County, Indiana documents that the site soils are classified as Jennings Series. The Jennings Series consists of deep, well-drained soils on uplands. These nearly level and gently sloping soils are on narrow ridges and hillsides. They formed in thin loess over loam or clay loam glacial till that is underlain by material weathered from black shale bedrock. Permeable is slow and surface runoff is slow to medium.

1.3.2 Bedrock Geology

According to the *Hydrogeologic Atlas of Aquifers in Indiana*, the project site is located in the Ohio River Basin. The Ohio River Basin is comprised of seven physiographic regions. The Scottsburg Lowland is found in the central portion of the of the basin, is a nearly flat to gently undulating till plain.

The bedrock beneath the site is the Devonian and Mississippian Shale composed of the New Albany Shale. According to the Hydrogeologic Atlas of Aquifers in Indiana, the thickness of unconsolidated material is less than 50 feet.

1.3.3 Aquifers

The site is located within the Ohio River Basin, located in southern Indiana. Five aquifer types are encountered within the Ohio River Basin and include: (1) buried sand and gravel, (2) carbonate bedrock, (3) upper weathered- bedrock, (4) complexly interbedded sandstone, shale, limestone, and coal, and (5) sandstone.

The site is underlain by carbonate bedrock aquifer. The site is not within a wellhead protection area.

1.3.4 Low and High-Capacity Water Well Information

Two low-capacity water wells were identified within a 1-mile radius of the site. The nearest low-capacity water well (Reference Number 195660) is located on-site and is used for the car wash. The low-capacity water wells are illustrated on **Figure 3**.

One high-capacity water well is identified within a 2-mile radius of the site. The closest significant withdraw well is owned by Lehigh Cement Company LLC, (Reference Number 00536). Water well records were not available for these high-capacity wells. High capacity and significant withdraw wells are illustrated on **Figure 4**.

The available low-capacity water well records are provided as **Appendix A**.

1.4 Site-Specific Geologic and Hydrologic Information

The unconsolidated native material encountered during subsurface investigations generally consists of silty clay and shale bedrock to the depths explored, 13 ft.

A Cross-Section Location Map and Cross-Sections A to A' and B to B' are provided as **Figures 5** through **7**. The soil boring logs/well construction diagrams are included in **Appendix B**.

2.0 SITE HISTORY

2.1 Land Use History

The property has been occupied by a gasoline station since at least 1974. Johnson Oil Company operated the station in the past. Mac's Convenience Stores LLC purchased the property in 2006 and is the current owner / operator.

The one 10,000-gallon and 6,000-gallon gasoline USTs were installed in 1983 and the one 4,000-gallon diesel UST and one 4,000-gallon kerosene UST were installed in 1974.

The most recent tank tightness testing results are provided in **Appendix C**.

The facility, responsible party, and operator information are provided in **Table 1** and the site UST information is summarized in **Table 2**.

2.2 Overview of Previous Environmental Investigations

Soil Exploration Services and American Environmental performed environmental activities in the past at the Circle K #42 facility (formerly Bigfoot #42) associated with IDEM incident numbers 9504082 and 200105514. IDEM issued a No Further Action status for the 1995 and 2001 incidents on December 29, 2003.

2.3 Reason for Performing ISC Investigation

A suspected release from the UST system was reported to the IDEM at Circle K #42 on February 12, 2024 by American Environmental personnel, Mr. James Madding. The kerosene STP was observed leaking into the soil and there is no containment for the kerosene UST.

The IDEM assigned the facility LUST Incident Number 202402503.

In their letter dated April 26, 2024 the IDEM requested an initial site characterization to gather information regarding the release and surrounding area, including, but not limited to, collection of soil and groundwater data, evaluation of potential pathways for migration, and evaluation of

receptors. Specific details regarding the release incident are provided below and summarized in **Table 3**.

3.0 SITE CONDITIONS

3.1 Determination of Present and Future Land Use

The site has been utilized as a petroleum fuel marketing facility since at least 1974. The site is bordered to the north by S. Indiana Avenue and Jim O'Neal Ford, to the south by Jamal Auto Sales and a former carwash, to the east by ES. Indiana Avenue and Dixon Racing Supply, and to the west by Popp Avenue, Marie's Place Barber and Beauty Salon, and Popp Music Academy.

3.2 Assessment of Potentially Susceptible Areas

Geologic and ecologic susceptible areas were not identified onsite or in the immediate vicinity of the site. A retention pond is located approximately 1,400 feet to the south of the site. Camp Run is located approximately 1,500 feet to the south and flows from east to west.

The site is not located within a Wellhead Protection Area. A copy of the Wellhead Protection Area Proximity Determination is provided in **Appendix D**.

3.3 Potential Exposure Pathways

3.3.1 Inhalation Exposure Pathway

Possible routes for exposure are indoor and outdoor inhalation of vapors released from the impacted soil and/or groundwater. The chemicals of concern (COCs) have been detected in the subsurface soil and groundwater; however, the depth of the impacts and asphalt and concrete surface of the site inhibit the transmission of dangerous concentrations of hydrocarbon vapors from the soil to the atmosphere.

The extent of the groundwater impacts has not been fully defined to the northeast and northwest. However, based on the detected concentrations and location, this exposure pathway appears incomplete.

3.3.2 Vapor Intrusion Evaluation

The following is an evaluation of potential vapor intrusion at onsite and surrounding structures.

Further investigation of vapor intrusion is appropriate in situations where:

• Building has less than 15 feet of vertical or horizontal separation from non-aqueous phase liquid (NAPL),
• Building has less than six feet of vertical or horizontal separation from groundwater with dissolved benzene above 50 ug/L,
• Building has less than six feet of vertical or horizontal separation from soil containing volatile petroleum chemicals, or
• Building occupants near the petroleum source area complain of chemical odors.

Based on the above criteria, none of which applies, the onsite and surrounding properties "screen out" for further consideration of vapor intrusion at this time, however vapor intrusion will continue to be evaluated.

3.3.3 Ingestion Exposure Pathway

The impacted soil and groundwater are confined to the subsurface and the surface cover at the site is asphalt/concrete. The impacted shallow water-bearing unit is not utilized as a potable water source within the immediate vicinity of the site and the City of Sellersburg supplies the area with municipal water. Based on the detected concentrations and location, this exposure pathway appears incomplete.

3.3.4 Dermal Absorption Exposure Pathway

The impacted soil and groundwater are confined to the subsurface and the surface cover at the site is asphalt/concrete. The impacted shallow water-bearing unit is not utilized as a potable water source within the immediate vicinity of the site and the City of Sellersburg supplies the area with municipal water. The extent of the groundwater impacts has not been fully defined to the north and east. However, based on the detected concentrations and location, this exposure pathway appears incomplete.

3.4 Chemicals of Concern

The chemicals of concern (COCs) for the site include VOCs and polynuclear aromatic hydrocarbons (PAHs) for soil and groundwater. The COCs are further summarized in **Table 4**.

4.0 SITE INVESTIGATION

4.1 Sampling Objectives and Rationale

The initial monitoring well locations were selected based on the proximity to potential source areas. The sampling objectives are to delineate the adsorbed and dissolved petroleum hydrocarbon plumes to the R2 screening levels.

4.2 Soil Sampling Event

Four soil borings were advanced, and four monitoring wells were installed (MW-1 through MW-4) on June 3, 2024. A Site Map is provided as **Figure 2**. Monitoring well locations MW-3 and MW-4 were advanced adjacent to previous borings B-4, and B-5, respectively, during the Site Check investigation where they were advanced to a depths of 10 to 13 feet. No soil samples were collected from these two locations.

Soil samples were collected continuously from 9 to 10 feet throughout the remaining soil borings via a stainless steel macrosampler lined with an acetate sleeve. The soil column was visually inspected and classified in the field by American Environmental personnel according to the Unified Soil Classification System. The soil samples were collected while wearing dedicated, disposable nitrile gloves utilizing the USEPA 5035A sample collection method and placed into 40mL vials with distilled water or methanol. A portion of each soil sample was also placed into four-ounce glass jars with Teflon lined lids, labeled, placed on ice, and delivered to Pace Analytical Services (Pace) located in Indianapolis, Indiana under chain of custody controls. A separate portion of each sample was placed in a sealable plastic bag and screened in the field with a photoionization detector. Soil boring logs are provided in **Appendix B.**

A total of two soil samples from monitoring well locations MW-1 and MW-2 were collected and submitted for laboratory analysis of adsorbed VOCs using USEPA Method 8260 and PAHs using USEPA Method 8270.

4.3 Soil Analytical Results

The current laboratory analytical report indicated that adsorbed VOC and PAH concentrations were nondetectable and below the IDEM R2 excavation published levels (XSPLs) at the two monitoring well locations.

The current and past soil laboratory analytical results are summarized in **Tables 5** and **6** and are illustrated on **Figure 8**. The complete laboratory analytical report is included in **Appendix E**.

4.4 Groundwater Sampling Event

Upon completion of the soil boring activities, three monitoring wells, MW-1 through MW-4, were installed by American Drilling Services. A two-inch diameter Schedule 40 PVC monitoring well was installed in the boreholes at depths of 8.36 ft. to 12.87 ft. bgs. Ten feet of .010 factory slotted screen was installed to straddle the water table being monitored. A sand pack was placed approximately two feet above the top of each screen, and a bentonite slurry seal was placed above the sand pack. The remaining annular space was filled with a bentonite grout to the land surface. Each well was developed to ensure a good hydraulic connection between the saturated zone and the monitoring well. A locking cap and manhole cover set in a 2-ft. by 2-ft.

concrete pad was installed over each well to protect the wellhead and inhibit tampering. Monitoring well construction diagrams using the same scale are provided in **Appendix B**.

American Environmental personnel obtained groundwater samples from monitoring wells MW-1 through MW-4 after purging three well volumes from the monitoring wells. A representative sample was collected from each monitoring well using dedicated bailers and sample gloves. The sample was placed in 40-ml glass vials with a Teflon septa lids, labeled, placed on ice and transported to Pace under chain of custody controls.

The collected groundwater sample was submitted for laboratory analysis of dissolved VOCs and PAHs.

Monitoring wells MW-1 through MW-4 were surveyed into a common benchmark and the elevation data was used to determine the groundwater flow direction at the site. Prior to groundwater sampling, the static water level was measured using an electronic water level indicator to the nearest 0.01-ft at monitoring well locations MW-1 through MW-3. The depth to groundwater ranged from 2.17 feet below the top of casing at MW-2 to 2.86 feet below the top of casing at MW-3. Based on these measurements, the inferred groundwater flow direction is to the northeast. The groundwater elevation measurements are summarized in **Table 7** and a Groundwater Flow Map is included as **Figure 9**.

4.5 Groundwater Analytical Results

The current laboratory analytical report indicated that dissolved benzene was detected above the IDEM groundwater published level (GWPL) of 5 parts per billion (ppb) at monitoring well locations MW-1 and MW-3 at a concentrations of 13 ppb and 804 ppb, respectively.

Naphthalene was detected above the IDEM GWPL of 1 ppb at monitoring well locations MW-1 and MW-3 at concentrations of 2.7 ppb and 21.6 ppb, respectively.

Monitoring well locations MW-2 and MW-4 revealed nondetectable VOC and PAH concentrations.

The groundwater laboratory analytical results are summarized in **Tables 8** and **9** and are illustrated on **Figure 10**. The complete laboratory analytical report is included in **Appendix E**.

4.6 Vapor Intrusion Evaluation

The site is an active gasoline station. American Environmental does not recommend a vapor intrusion investigation at this time, however vapor intrusion will continue to be evaluated.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

5.1.1 Soil

The past and current laboratory analytical reports indicated adsorbed VOC and PAH concentrations are nondetectable and below the IDEM XSPLs at all boring and monitoring well locations.

5.1.2 Groundwater

The laboratory analytical results confirm dissolved VOC and PAH impacts are present at MW-1 and MW-3 at concentrations exceeding the IDEM GWPLs. The extent of the groundwater impacts are not delineated to the north, northwest, and northeast.

5.1.3 Vapor Intrusion

The site is an active gasoline station. American Environmental does not recommend a vapor intrusion investigation at this time, however vapor intrusion will continue to be evaluated.

5.1.4 Free Product

Free product has not been observed in any of the boring or monitoring well locations.

5.2 Recommendations

American Environmental recommends that quarterly groundwater monitoring be initiated for MW-1 through MW-4. Groundwater samples will be collected for VOCs and PAHs. The benzene and naphthalene concentrations at MW-3 should be evaluated after two quarterly sampling events to determine if a further site investigation is warranted.

6.0 REFERENCES

Fenelon, Joseph., et al., Hydrogeologic Atlas of Aquifers in Indiana, U.S. Geological Survey, 1994.

USDA, Soil Conservation Service, Soil Survey of Clark County, Indiana, Issued 1974.

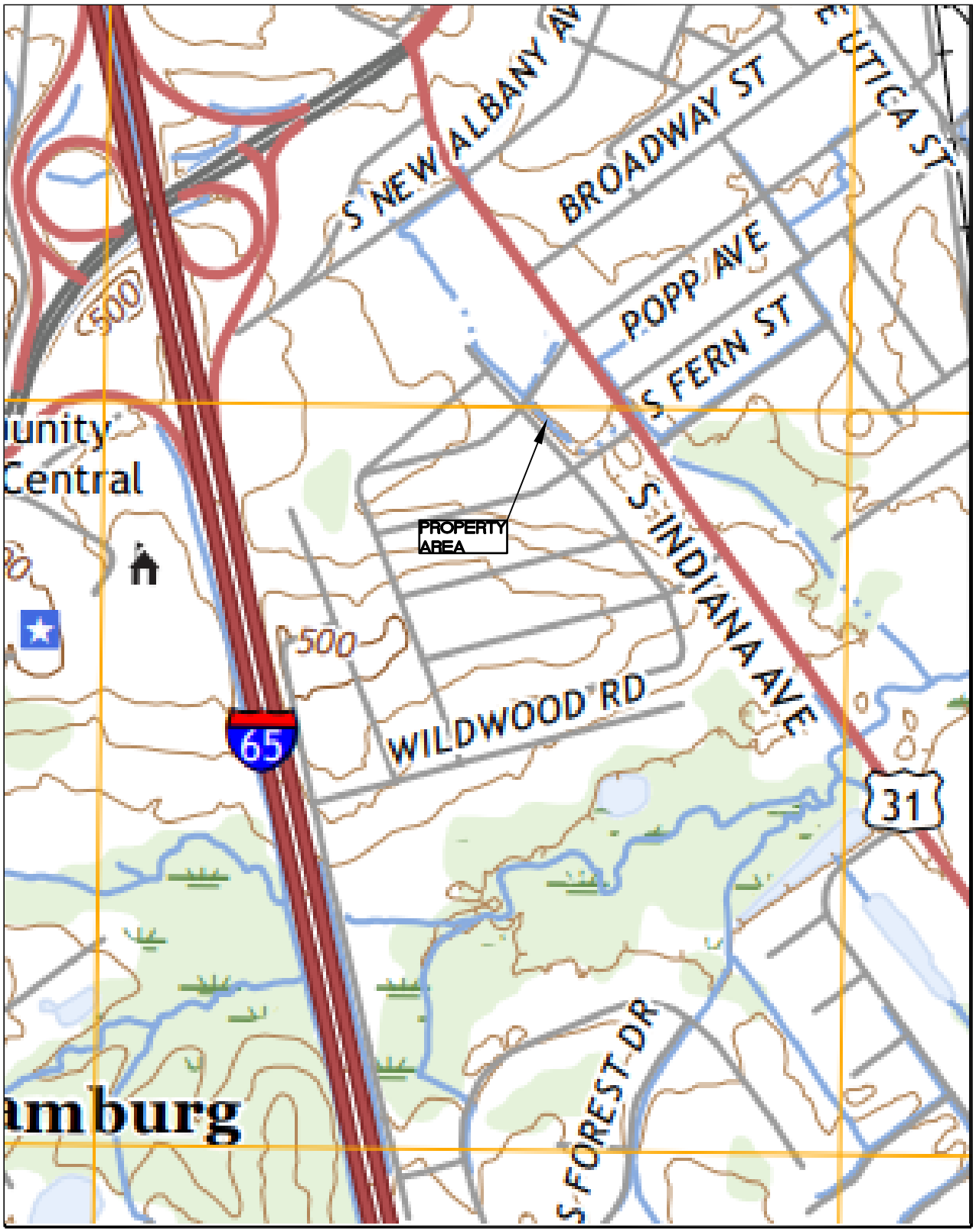
USGS Topographical Map, Speed Quadrangle.

Water well records, Indiana Department of Natural Resources, Division of Water, 402 West Washington Street, Indianapolis, Indiana 46204.

7.0 SIGNATURE

A signature page is provided as a preface to this report.

FIGURES



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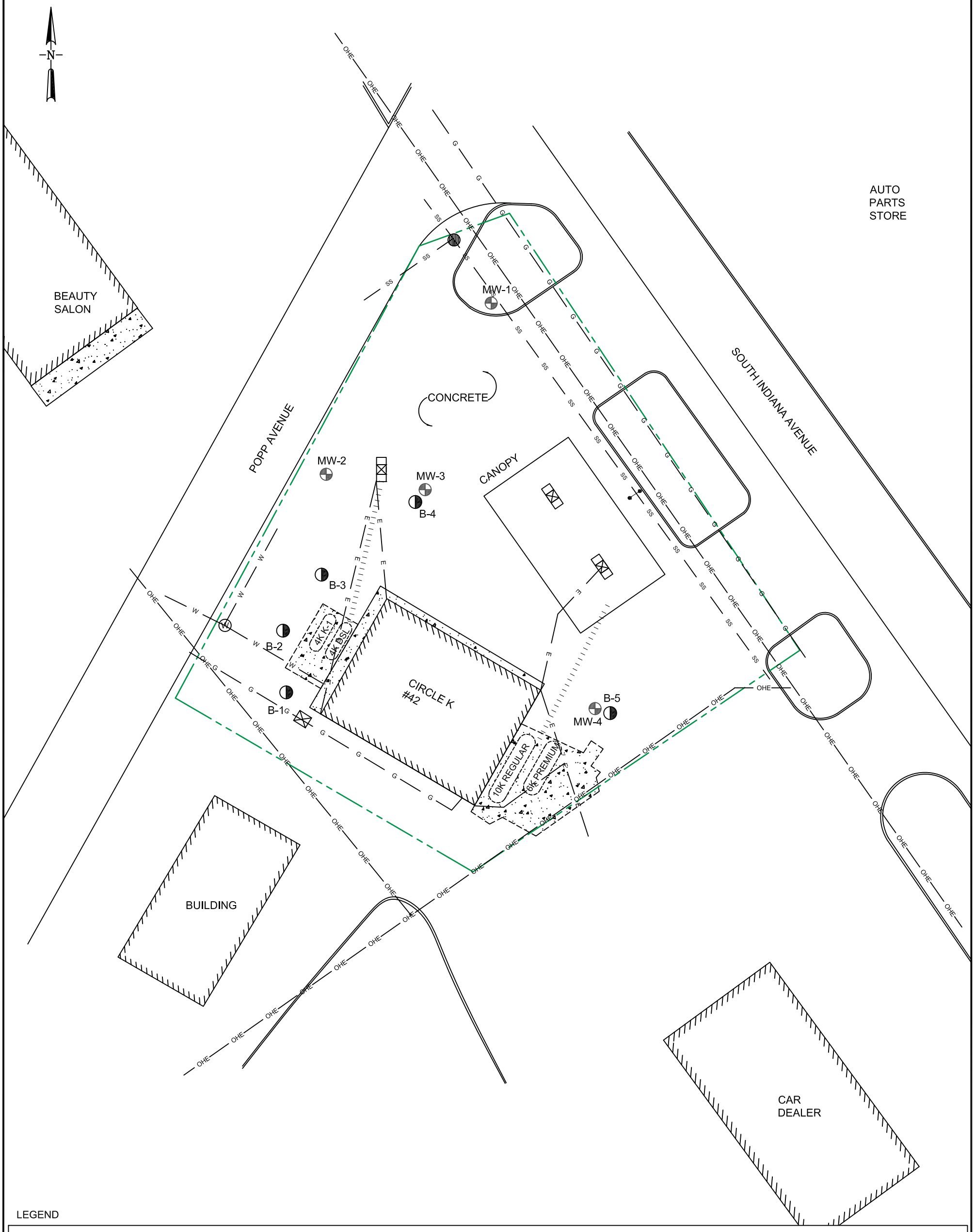
VICINITY MAP
CIRCLE K #42
602 SOUTH INDIANA AVENUE
SELLERSBURG, INDIANA

PROJECT NO.	SCALE:
441014	1:24,000
PHOTO REVISED:	FIGURE:
2022	1



LEGEND

- MONITORING WELL
- SOIL PROBE
- PROPERTY LINE
- BUILDING
- DUMPSTER
- WATER METER
- LIGHT POLE
- UTILITY POLE
- DISPENSER
- FIBERGLASS UST
- SIGN
- STORM DRAIN
- OHE — OVERHEAD UTILITY LINE
- E — UNDERGROUND ELECTIC LINE
- W — WATER LINE
- G — NATURAL GAS LINE
- T — TELEPHONE LINE
- ST — STORM SEWER
- SS — SANITARY SEWER
- PIPING LINE / PRODUCT LINE

NOTE:
THIS SITE MAP IS BASE ON GOOGLE MAP: DATE AUGUST 2023

30 0 30
SCALE IN FEET

American Environmental
Indianapolis, Indiana-Corporate Office (317) 871-4090
Louisville, Kentucky-Regional Office (502) 491-0144
Springfield, Illinois-Regional office (217) 585-9517
Fairfield, Ohio-Regional Office (513) 874-7740

SITE MAP
CIRCLE K #42
602 SOUTH INDIANA AVENUE
SELLERSBURG, INDIANA

Project No.: 441014
Drawing File: 441014
Date: 6/11/2024
SCALE: AS SHOWN
FIGURE: 2

Figure 3 - Low Capacity Water Well Map

6/14/2024, 8:59:35 AM

1:18,056

⊗ Override 1

Unspecified Well Type

■ Unlocated

Boreholes Drilled to Bedrock

● Field Located

■ Unlocated

County Roads

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Indiana Geographic Information Office (IGIO)

Figure 4 - High Capacity Water Well Map

6/14/2024, 8:53:49 AM

1:36,112

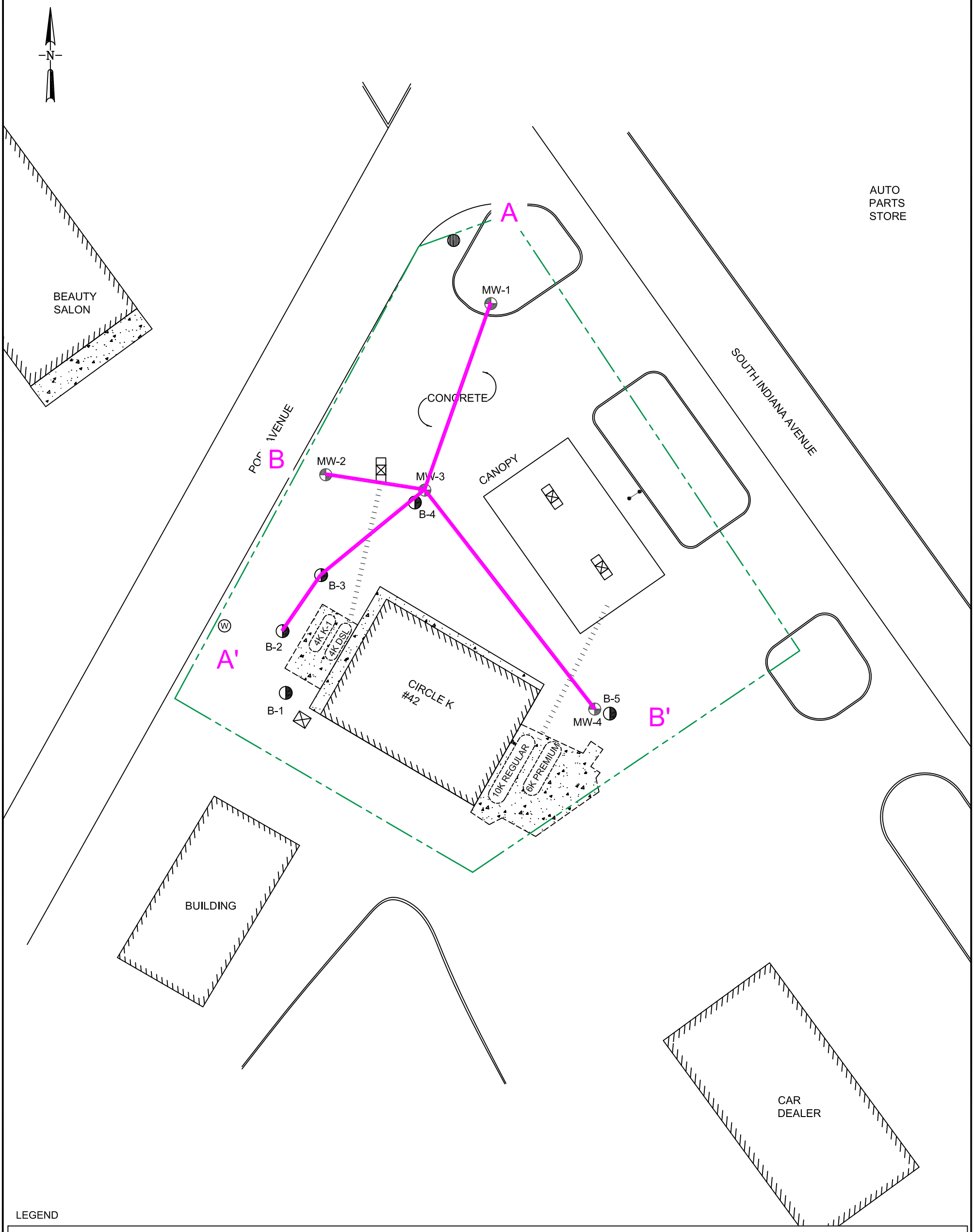
0 0.35 0.7 1.4 mi

0 0.5 1 2 km

- Override 1
- Significant Withdraw Wells
- County Roads

Indiana Geographic Information Office (IGIO)

InDNRMaps



LEGEND

- MONITORING WELL
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- FIBERGLASS UST
- SIGN
- STORM DRAIN
- PIPING LINE / PRODUCT LINE

NOTE:
THIS SITE MAP IS BASE ON GOOGLE MAP: DATE AUGUST 2023

30 0 30
SCALE IN FEET

American Environmental
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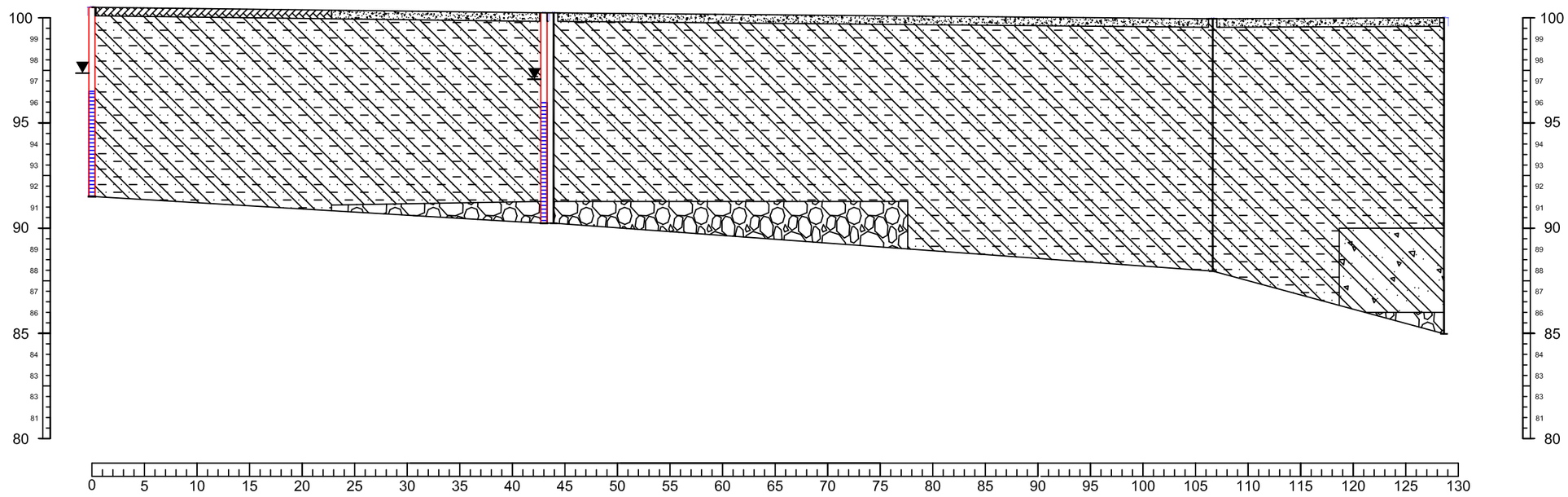
CROSS-SECTION LOCATIONS MAP
CIRCLE K #42
602. S.INDIANA AVUNUE
SELLERSBURG, INDIANA

Project No.: 441014	SCALE: AS SHOWN
Drawing File: 441014	FIGURE: 5
Date: 4/9/2024	

NORTH
A

SOUTH
A'



SOIL ANALYTICAL RESULTS:

	MW-1	
	6/3/2024	
	6-8'	8-10'
VOCs	<XSPL	<XSPL
PAHs	<RSPL	<RSPL

	B-4	
	4/4/2024	
	6-8'	8-10'
VOCs	<XSPL	<XSPL
PAHs	<RSPL	<RSPL

	B-2	
	4/4/2024	
	4-6'	14-15'
VOCs	ND	ND
PAHs	<RSPL	<RSPL

	B-1	
	4/4/2024	
	10-12'	14-15'
VOCs	ND	ND
PAHs	ND	<RSPL

GROUNDWATER ANALYTICAL RESULTS:

	MW-1
	6/6/2024
Benzene	**13**
Napthalene	**2.7**

	B-4
	4/4/2024
Benzene	**491**
1-Methylnapthalene	**47.4**
2-Methylnapthalene	**104**
Napthalene	**80.9**

	MW-3
	6/6/2024
Benzene	**804**
Napthalene	**21.6**

	B-3
	4/4/2024
VOCs	ND
PAHs	ND

	B-2
	4/4/2024
VOCs	ND
PAHs	ND

VOC = VOLATILE ORGANIC COMPOUNDS
SOIL LISTED IN PPM
GROUNDWATER LISTED IN PPB

PROBE LOCATION
WELL WITH SCREEN
BOTTOM OF BORING
GROUNDWATER SAMPLING ON 6/6/2024

ASPHALT
SHALE
TOP SOIL
GRAVEL CLAY
SILTY CLAY

LEGEND

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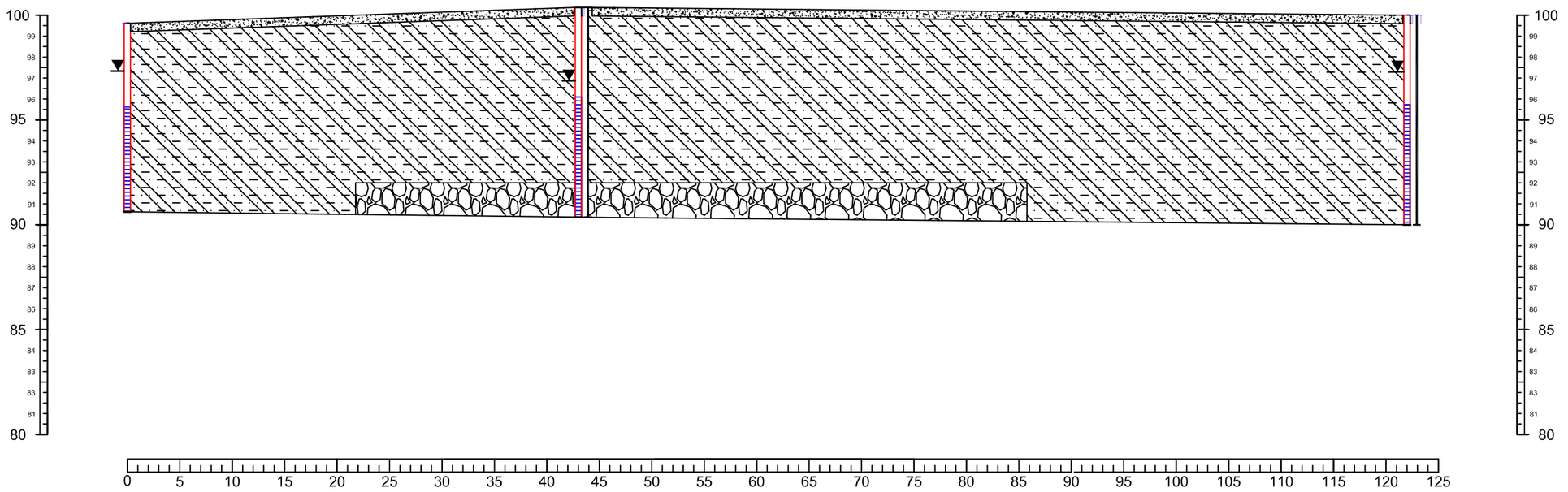
CROSS-SECTION A-A'
CIRCLE K #42
602. S.INDIANA AVUNUE
SELLERSBURG, INDIANA

Project No.: **441014**
Drawing File: **441014**
Date: **4/9/2024**
SCALE: **AS SHOWN**
FIGURE: **6**

WEST
B

SOUTH EAST
B'



SOIL ANALYTICAL RESULTS:

MW-2

	6/3/2024	
	0-2'	8-10'
VOCs	ND	ND
PAHs	ND	<RSPL

B-4

	4/4/2024	
	6-8'	8-10'
VOCs	<XSPL	<XSPL
PAHs	<RSPL	<RSPL

B-5

	4/4/2024	
	0-2'	8-10'
VOCs	ND	ND
PAHs	<RSPL	ND

GROUNDWATER ANALYTICAL RESULTS:

MW-2

	6/6/2024
VOCs	ND
PAHs	ND

MW-3

	6/6/2024
Benzene	**804**
Napththalene	**21.6**

B-4

	4/4/2024
Benzene	**491**
1-Methylnapththalene	**47.4**
2-Methylnapththalene	**104**
Napththalene	**80.9**

MW-4

	6/6/2024
VOCs	ND
PAHs	ND

B-5

	4/4/2024
VOCs	ND
PAHs	ND

VOC = VOLATILE ORGANIC COMPOUNDS
SOIL LISTED IN PPM
GROUNDWATER LISTED IN PPB

PROBE LOCATION
WELL WITH SCREEN
BOTTOM OF BORING
GROUNDWATER SAMPLING ON 6/6/2024

ASPHALT
TOP SOIL
SHALE
SILTY CLAY

LEGEND

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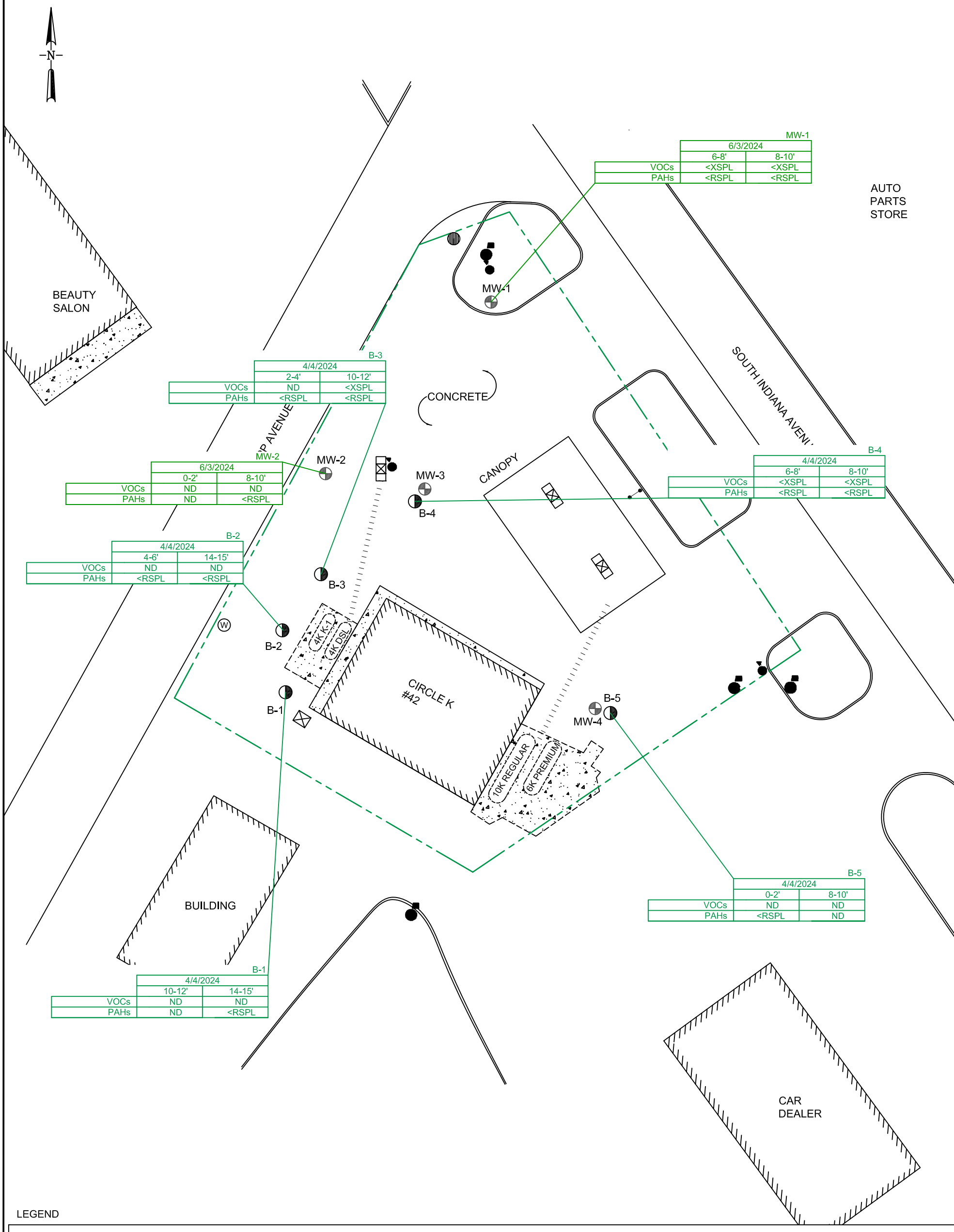
CROSS-SECTION B-B'
CIRCLE K #42
602. S.INDIANA AVUNUE
SELLERSBURG, INDIANA

Project No.: **441014**
Drawing File: **441014**
Date: **6/18/2024**
SCALE: **AS SHOWN**
FIGURE: **7**



LEGEND

- MONITORING WELL
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- DUMPSTER
- WATER METER
- LIGHT POLE
- UTILITY POLE
- DISPENSER
- FIBERGLASS UST
- SIGN
- STORM DRAIN
- PIPING LINE / PRODUCT LINE

ONLY PARAMETERS ABOVE RSPL AND XSPL ARE SHOWN.
PPB = PARTS PER BILLION (ug/kg)
XSPL= EXCAVATION SOIL PUBLISHED LEVEL
RSPL= RESIDENTIAL SOIL PUBLISHED LEVEL
VOC = VOLATILE ORGANIC COMPOUNDS
PAH= POLYNUCLEAR AROMATIC HYDROCARBONS
cPAH = CARCINOGENIC POLYNUCLEAR AROMATIC HYDROCARBONS
ND = NONE DETECTED
RESULTS LISTED IN PPM.

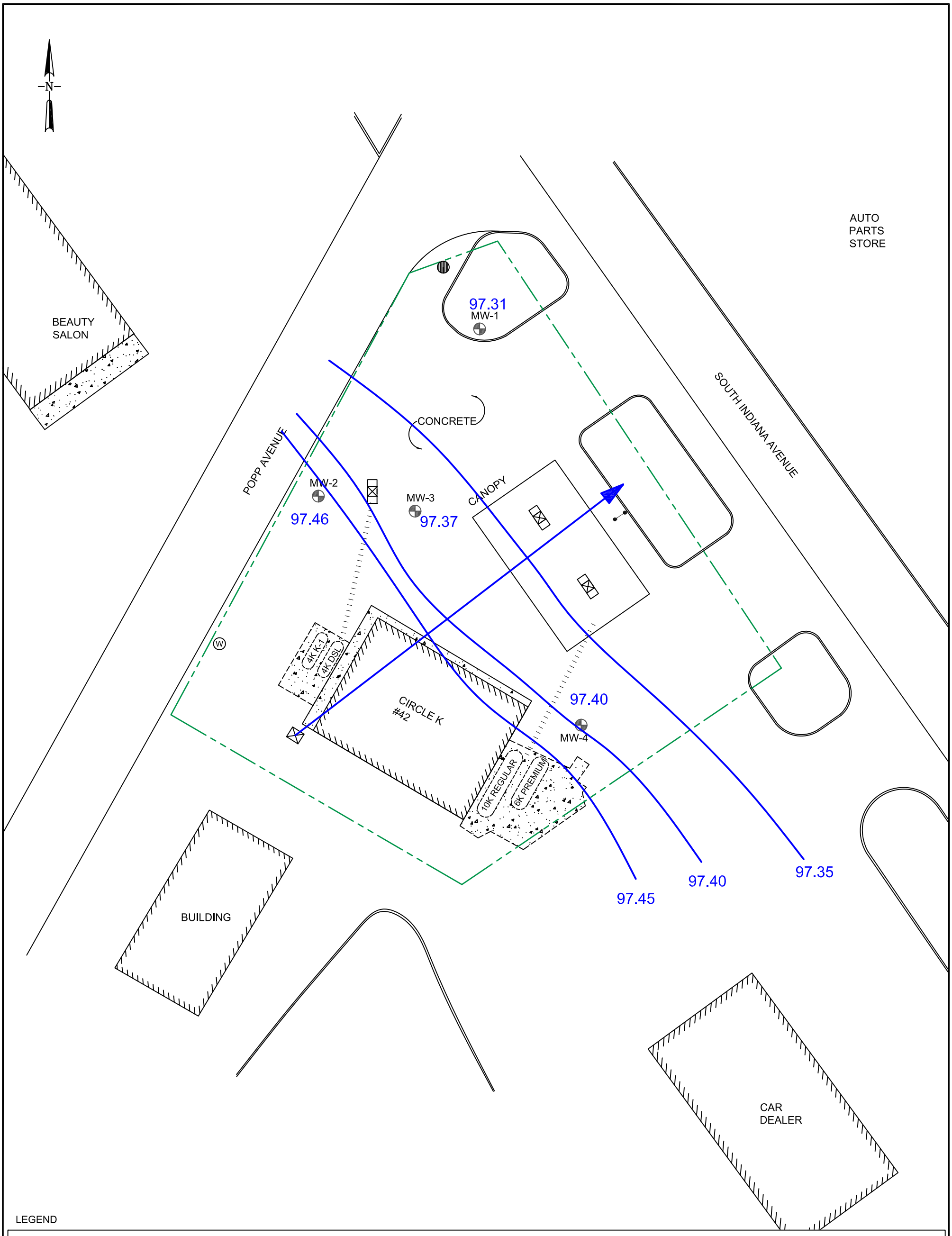
NOTE:
THIS SITE MAP IS BASE ON GOOGLE MAP: DATE AUGUST 2023

30 0 30
SCALE IN FEET

American Environmental
Indianapolis, Indiana-Corporate Office (317) 871-4090
Louisville, Kentucky-Regional Office (502) 491-0144
Springfield, Illinois-Regional office (217) 585-9517
Fairfield, Ohio-Regional Office (513) 874-7740

SOIL ANALYTICAL RESULTS
CIRCLE K #42
602 SOUTH INDIANA AVENUE
SELLERSBURG, INDIANA

Project No.: 441014
Drawing File: 441014
Date: 6/26/2024
SCALE: AS SHOWN
FIGURE: 8



LEGEND

- MONITORING WELL
- SOIL PROBE
- PROPERTY LINE
- BUILDING
- DUMPSTER
- LIGHT POLE
- UTILITY POLE
- DISPENSER
- FIBERGLASS UST
- SIGN
- STORM DRAIN

GROUNDWATER ELEVATIONS ARE MEASURED IN FEET

DIRECTION OF GROUNDWATER FLOW

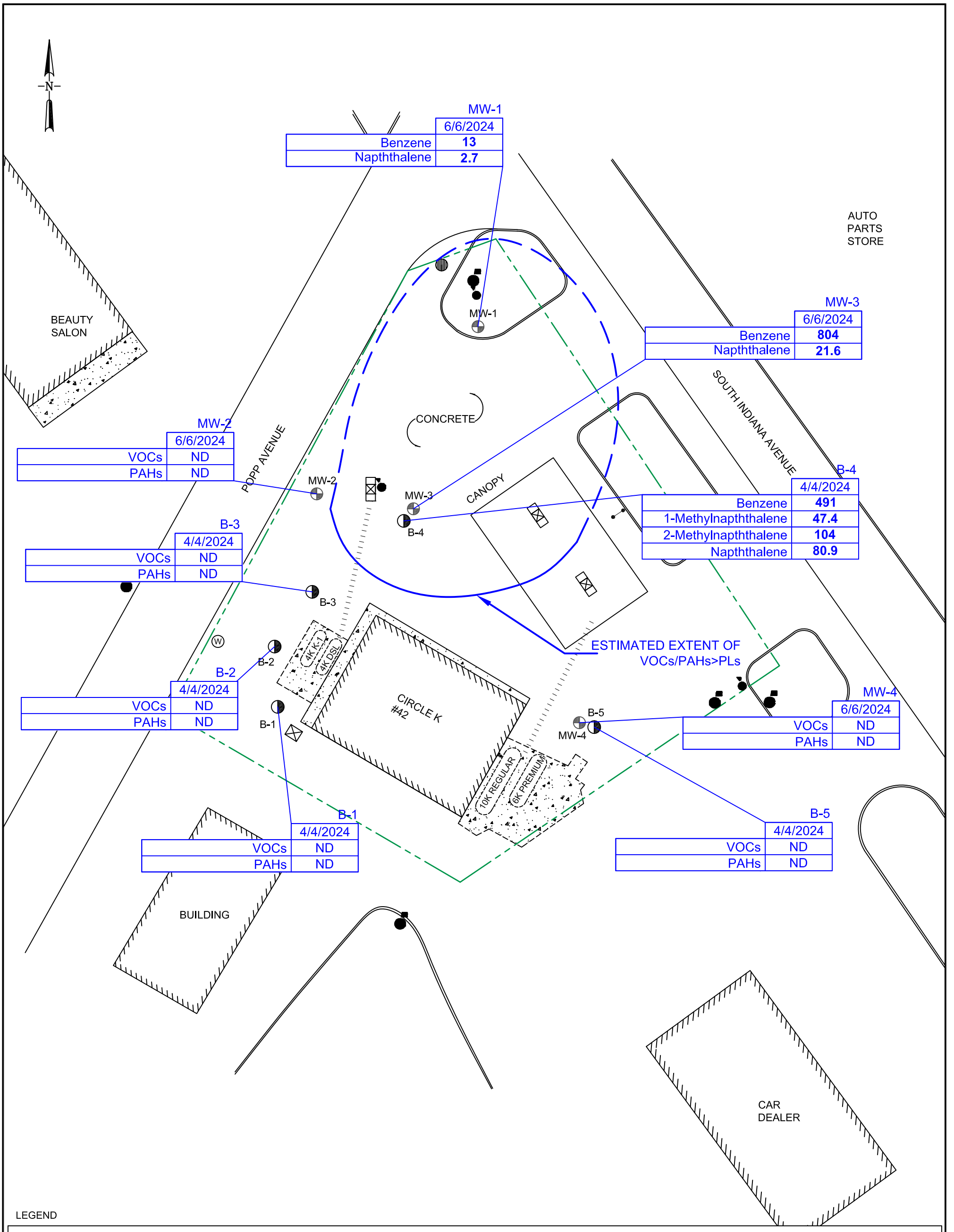
NOTE:
THIS SITE MAP IS BASE ON GOOGLE MAP: DATE AUGUST 2023

30 0 30
SCALE IN FEET

American Environmental
Indianapolis, Indiana-Corporate Office (317) 871-4090
Louisville, Kentucky-Regional Office (502) 491-0144
Springfield, Illinois-Regional office (217) 585-9517
Fairfield, Ohio-Regional Office (513) 874-7740

GROUNDWATER FLOW MAP- 6/6/2024
CIRCLE K #42
602. S.INDIANA AVUNUE
SELLERSBURG, INDIANA

Project No.: 441014	SCALE: AS SHOWN
Drawing File: 441014	FIGURE: 9
Date: 6/18/2024	



American Environmental
Indianapolis, Indiana-Corporate Office (317) 871-4090
Louisville, Kentucky-Regional Office (502) 491-0144
Springfield, Illinois-Regional office (217) 585-9517
Fairfield, Ohio-Regional Office (513) 874-7740

GROUNDWATER ANALYTICAL RESULTS
CIRCLE K #42
602 SOUTH INDIANA AVENUE
SELLERSBURG, INDIANA

Project No.: 441014
Drawing File: 441014
Date: 6/26/2024
SCALE: AS SHOWN
FIGURE: 10

TABLES

Initial Site Characterization

Table 1 & 2. Facility Information, Responsible Party Information and Site UST Information

Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Table 1. Facility Information	
Facility I.D. Number:	10442
State Cleanup Number:	202402503
Current Occupant of Site:	Circle K #42
Site Address:	602 S. Indiana Avenue
City, State, Zip Code:	Sellerburg, IN 47172
County:	Clark
Area Code/Telephone Number:	812-246-9813
Contact Person:	Mr. Scott Janashak

Table 1a. Responsible Party Information	
Responsible Party Name:	Mac's Convenience Stores, LLC
Mailing Address:	4080 Jonathon Moore Pike
City, State, Zip Code:	Columbus, Indiana 47201
Area Code/Telephone Number:	317-578-0526
Contact Person:	Mr. Scott Janashak

Table 2. Site UST Information							
Tank #	Installation Date	Capacity (Gallons)	Product	Construction Material	Date Installed	Date Removed	Method of Leak Detection
1	1983	1,000	Gasoline	Steel	1983	N/A	Automatic Tank Gauging
2	1983	6,000	Gasoline	Steel	1983	N/A	Automatic Tank Gauging
3	1974	4,000	Diesel	Steel	1974	N/A	Automatic Tank Gauging
4	1974	4,000	Kerosene	Steel	1974	N/A	Automatic Tank Gauging

Initial Site Characterization
Table 3. Release Incident Details
Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Table 3	
Date Reported to IDEM	February 12, 2024
Release Incident Number	202402503
Assigned Priority	Low
Material(s) Released	Kerosene
Volume Lost	Unknown
Areas Affected (i.e., backfill soils, native soils, groundwater, surface water, subsurface conduits)	Kerosene STP was leaking into the soil.
Vapors present in onsite/offsite structures or utility conduits	No
Health and Environmental Risks associated with release incident (sensitive areas)	No
Description of immediate actions taken to prevent any further release	Repairs were made to the STP.
Measures taken to prevent further migration of the release (i.e., soil removal)	Repairs were made to the STP.
Actions taken to investigate potential free product release	A total of 9 soil borings advanced and 4 monitoring wells installed.
Estimated quantity, type, and thickness of product observed or discovered	N/A
Actions taken to identify and mitigate fire and exposion hazards posed by vapors or free product	N/A
Company/contractor responsible for free product removal	N/A
Methods used to recover free product	N/A
Final disposition of any free product recovered	N/A
Amount of free product removed to date	N/A

Initial Site Characterization
Table 4. Contaminants of Concern
Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Table 4. Chemicals of Concern		
Chemicals of Concern	Analytical Method Used	
	Soil	Groundwater
Volatile Organic Compounds	8260	8260
Polynuclear Aromatic Hydrocarbons	8270	8270

Initial Site Characterization
Table 5. Soil VOC Analytical Results
Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Sample I.D.	Depth (feet)	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	n-Hexane (ppb)	n-Butyl-benzene (ppb)	sec-Butyl-benzene (ppb)	tert-Butyl-benzene (ppb)	Isopropyl-benzene (ppb)	n-Propyl-benzene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	1,2,4 - Trimethyl-benzene (ppb)	1,3,5-Trimethyl-benzene (ppb)
B - 1	10 - 12	4/4/2024	<6	<6	<6	<6	<6	<6	6.6	<6	<6	<6	<6	<6	<6	<6	<6	<6
	14 - 15		<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
B - 2	4 - 6	4/4/2024	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8
	14 - 15		<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1
B - 3	2 - 4	4/4/2024	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10 - 12		<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	7.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
B - 4	6 - 8	4/4/2024	1,360	<216	1,410	580	<216	<216	11,200	2,360	889	<216	1,490	5,010	<216	<216	500	<216
	8 - 10		<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	13.6	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
B - 5	0 - 2	4/4/2024	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
	8 - 10		<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	3.2	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9
MW-1	6 - 8	6/3/2024	<2,060	<2,060	<2,060	<2,060	<2,060	<2,060	13,800	<2,060	<2,060	<2,060	2,310	<2,060	<2,060	<2,060	<2,060	<2,060
	8 - 10		<1,990	<1,990	9,750	<1,990	<1,990	4,160	24,900	<1,990	<1,990	<1,990	2,680	3,310	<1,990	<1,990	4,520	<1,990
MW-2	0 - 2	6/3/2024	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	8 - 10		<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
2024 R2 Excavation Soil Published Levels			2,000,000	800,000	500,000	300,000	9,000,000	3,000,000	100,000	100,000	100,000	200,000	300,000	300,000	400,000	7,000,000	200,000	200,000

ppb: parts per billion (µg/kg)
R2: IDEM's Risk-based Closure Guide

Initial Site Characterization
Table 6. Soil PAH Analytical Results
Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Sample I.D.	Depth (feet)	Date	Ace-naphthene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenz(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) Pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Pyrene (ppb)
B - 1	10 - 12	4/4/2024	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
	14 - 15		<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	33.1	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	17.4
B - 2	4 - 6	4/4/2024	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
	14 - 15		<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	40.2	<6.0	<6.0	<6.0	<6.0	61.9	71.1	15	<6.0
B - 3	2 - 4	4/4/2024	<5.1	<5.1	8.1	9	12.2	5.2	17.3	<5.1	22	<5.1	7.1	<5.1	<5.1	<5.1	20.8
	10 - 12		<6.1	9.7	33.3	37.4	51.8	15.9	37.2	<6.1	117	<6.1	23.7	<6.1	<6.1	<6.1	87.5
B - 4	6 - 8	4/4/2024	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	9.4	8.4	<6.1	277	533	248	7.5
	8 - 10		<28.4	<28.4	<28.4	<28.4	<28.4	<28.4	67.5	<28.4	<28.4	<28.4	<28.4	163	197	49.1	<28.4
B - 5	0 - 2	4/4/2024	<25.9	27.7	83.5	87	177	56.2	135	<25.9	365	<25.9	75.4	<25.9	<25.9	31.7	236
	8 - 10		<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
MW-1	6 - 8	6/3/2024	7.1	12.6	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	10.5	<6.1	362	611	<6.1	<6.1
	8 - 10		8.1	<6.4	<6.4	<6.4	<6.4	<6.4	11	<6.4	<6.4	15.3	<6.4	701	1,500	2,320	<6.4
MW-2	0 - 2	6/3/2024	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	7.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	5.6
	8 - 10		63.7	<25.7	<25.7	<25.7	<25.7	<25.7	121	<25.7	<25.7	<25.7	<25.7	723	929	359	39.4
2024 R2 Residential Soil PLs			5,000,000	30,000,000	20,000	2,000	20,000	200,000	20,000,000	2,000	3,000,000	3,000,000	20,000	300,000	300,000	30,000	3,000,000
2024 R2 Commercial Soil PLs			50,000,000	100,000,000	200,000	20,000	200,000	2,000,000	20,000,000	20,000	30,000,000	30,000,000	200,000	400,000	3,000,000	90,000	20,000,000
2024 R2 Excavation Soil PLs			100,000,000	1,200,000	10,000,000	200,000	10,000,000	100,000,000	100,000,000	1,000,000	70,000,000	70,000,000	10,000,000	400,000	7,000,000	3,000,000	50,000,000

ppb: parts per billion (µg/kg)
R2: IDEM's Risk-based Closure Guide
PLs - Published Levels

Initial Site Characterization
Table 7. Groundwater Gauging Data
Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Location	Date	Total Well Depth (ft)	Screened Interval (ft)	TOC Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
MW-1	6/6/2024	8.36	3.36 - 8.36	100.06	2.75	97.31
MW-2	6/6/2024	8.97	3.97 - 8.97	99.63	2.17	97.46
MW-3	6/6/2024	9.34	4.34 - 9.34	100.23	2.86	97.37
MW-4	6/6/2024	12.87	2.87 - 12.87	100.09	2.69	97.40

TOC: Top of casing

Initial Site Characterization
Table 8. Groundwater VOC Analytical Results
Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Sample I.D.	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)	n-Butyl-benzene (ppb)	sec-Butyl-benzene (ppb)	tert-Butyl-benzene (ppb)	Isopropyl-benzene (ppb)	n-Hexane (ppb)	n-Propyl-benzene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	1,2,4-Trimethyl-benzene (ppb)	1,3,5-Trimethyl-benzene (ppb)
B-1	4/4/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B-2	4/4/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B-3	4/4/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B-4	4/4/2024	**491**	6.6	225	<5	<5	<5	133	52.2	5.3	152	471	305	<5	<5	39.5	11
B-5	4/4/2024	<5	<5	<5	<5	8.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-1	6/6/2024	**13**	<5	<5	<5	<5	<5	<5	<5	<5	<5	5.3	<5	<5	<5	<5	<5
MW-2	6/6/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW-3	6/6/2024	**804**	8.9	83.8	30.6	<5	<5	<5	<5	<5	18.1	27.1	26.5	<5	<5	5.4	<5
MW-4	6/6/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2024 R2 Groundwater PL		5	800	500	10,000	100	1	1,000	2,000	700	660	2,000	500	10	40	60	60

ppb: parts per billion (µg/L)
R2: IDEM's Risk-based Closure Guide
PL: Published Level

Initial Site Characterization
Table 9. Groundwater PAH Analytical Results
Circle K #42
602 S. Indiana Avenue
Sellersburg, IN 47172
IDEM Incident #202402503
Facility ID #10442

Sample I.D.	Date	Acenaphthene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(b) flouranthene (ppb)	Benzo(k) flouranthene (ppb)	Dibenze(a,h) anthracene (ppb)	Fluoranthene (ppb)	Flourene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naphthalene (ppb)
B-1	4/4/2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
B-2	4/4/2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
B-3	4/4/2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
B-4	4/4/2024	<0.10	0.36	0.31	0.24	<0.10	<0.10	<0.10	<0.10	<0.10	**47.4**	**104**	**80.9**
B-5	4/4/2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MW-1	6/6/2024	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	3.9	2.9	**2.7**
MW-2	6/6/2024	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
MW-3	6/6/2024	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	8.2	10.4	**21.6**
MW-4	6/6/2024	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
2024 R2 Groundwater PL		500	2,000	0.3	3	30	0.3	800	300	3	10	40	1

ppb: parts per billion (µg/L)
R2: IDEM's Risk-based Closure Guide
PL: Published Level

APPENDICES

APPENDIX A

Low and High-Capacity Water Well Records

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
195655	ON CORNER OF 31W AND 60 AT PHILLIPS 66 STATION, HAMBURG, IN	Jan 21, 1963

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	PHILLIPS 66 OIL CO	HAMBURG, IN	
Driller	WELLER WELL DRILLING	R2, PEKIN, IN	
Operator	DALE WELLER	License: null	

Construction Details

Well	**Use:** Public Supply	**Drilling method:** Cable Tool	**Pump type:**
	Depth: 108.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 15.0	**Material:**	**Diameter:** 8.0
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** 3.0 gpm for 8.0 hrs.
Drawdown: ft. **Static water level:** 73.0 ft. **Bailer Drawdown** 10.0 ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: CLARK **Township:** 1S **Range:** 7E
Section: of Section 108 **Topo map:** SPEED
Grant Number: 108
Field located by: U **on:** Oct 01, 1963
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: 488.0 **Depth to bedrock:** 8.0 **Bedrock elevation:** 480.0 **Aquifer elevation:**
UTM Easting: 607639.0 **UTM Northing:** 4248912.0

Well Log

Top	Bottom	Formation
0.0	8.0	SOIL
8.0	67.0	NEW ALBNAY SH
67.0		LS

Comments MC 480; WATER FROM BLACK SH; DON 108

Record of Water Well

Indiana Department of Natural Resources

Reference Number
195660

Driving directions to well
DRILLED AT HAMBURG, IN 1ST HSE ON R PAST CAUTION LIGHTS GOING TOWARD SELLERSBURG

Date completed
Apr 27, 1960

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	SARA C SPRIGLER	SELLERSBURG, IN	
Driller	KENNETH COATS	PEKIN, IN	
Operator	KENNETH COATS	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Cable Tool	**Pump type:**
	Depth: 55.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:**	**Material:**	**Diameter:**
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test
Type of test: **Test rate:** gpm for hrs. **BailTest rate:** 3.0 gpm for 5.0 hrs.
Drawdown: ft. **Static water level:** 24.0 ft. **Bailer Drawdown** 31.0 ft.

Grouting Information
Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment
Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative
County: CLARK **Township:** 1S **Range:** 7E
Section: of Section 108 **Topo map:** SPEED
Grant Number: 108
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: 485.0 **Depth to bedrock:** 4.0 **Bedrock elevation:** 481.0 **Aquifer elevation:**
UTM Easting: 607680.0 **UTM Northing:** 4249003.0

Well Log

Top	Bottom	Formation
0.0	4.0	RED CLAY SOIL
4.0	25.0	SLATE BR
25.0	55.0	BLACK SLATE

Comments
1100 SW OF NEL; 800 NW OF SEL; DON 108; MC 480

APPENDIX B

Boring Logs/Monitoring Well Construction Diagrams

AMERICAN ENVIRONMENTAL CORPORATION

FIELD BORING LOG/ WELL CONSTRUCTION DETAILS

CLIENT:	CIRCLE K #42	**BORING NUMBER:**	MW–1
PROJECT NAME:	ISC	**JOB NUMBER:**	441014
PROJECT LOCATION:	SELLERSBURG, IN	**START DATE, TIME:**	6/3/2024
BORING LOCATION:	SEE MAP	**BORING METHOD:**	HSA
DRILLER/IDNR#:	C. HUTCHESON #1736	**BOREHOLE DIAMETER:**	6"
FIELD SCIENTIST:	C. BOUWKAMP	**SAMPLING METHOD:**	DP

SOIL/ROCK DESCRIPTION	Depth (ft)	REC. %	LAB SAMPLE DEPTH	TPV (ppm)
0–6" Topsoil	1	90		0.0
Silty clay(CL), dry, low plasticity, (10YR 5/1)	2			
	3			0.0
	4			
@5' moist	5			10.1
	6	90		
@8' wet	7		1	15.8
@9' Shale bedrock	8			
	9		2	9.4
Refusal at 9'	10			
	11			
	12			
	13			
	14			
	15			
	16			
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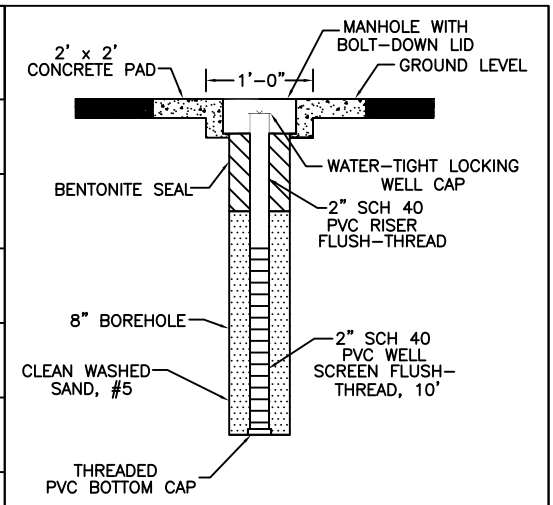

WATER LEVEL OBSERVATIONS

NOTED ON RODS:	--	ft.
AT COMPLETION:	--	ft.
AFTER -- hrs.:	--	ft.

LEGEND

IDNR# – WATER WELL DRILLER LICENSE NUMBER
TPV – TOTAL PHOTOIONIZABLE VAPORS
ppm – PARTS PER MILLION
SPT – STANDARD PENETRATION TEST
HSA – HOLLOW STEM AUGER
ND – NONE DETECTED
* SAMPLE SENT TO LABORATORY

WELL CONSTRUCTION NOTES

WELL DIAMETER:	2"
SCREEN LENGTH:	10'
SCREEN SLOT SIZE:	0.010"
DEVELOPMENT METHOD/DURATION:	Pump

AMERICAN ENVIRONMENTAL CORPORATION

FIELD BORING LOG/ WELL CONSTRUCTION DETAILS

CLIENT:	CIRCLE K #42	**BORING NUMBER:**	MW-2
PROJECT NAME:	ISC	**JOB NUMBER:**	441014
PROJECT LOCATION:	SELLERSBURG, IN	**START DATE, TIME:**	6/3/2024
BORING LOCATION:	SEE MAP	**BORING METHOD:**	HSA
DRILLER/IDNR#:	C. HUTCHESON #1736	**BOREHOLE DIAMETER:**	6"
FIELD SCIENTIST:	C. BOUWKAMP	**SAMPLING METHOD:**	DP

SOIL/ROCK DESCRIPTION	Depth (ft)	REC. %	LAB SAMPLE DEPTH	TPV (ppm)
0-6" Asphalt	1	70	1	0.8
Silty clay(CL), dry, low plasticity, (10YR 5/1)	2			
	3			0.2
	4			
@5' moist	5			0.2
	6	90		
@7' wet	7			0.3
@9' Shale bedrock	8			
	9		2	0.3
Refusal at 9'	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			
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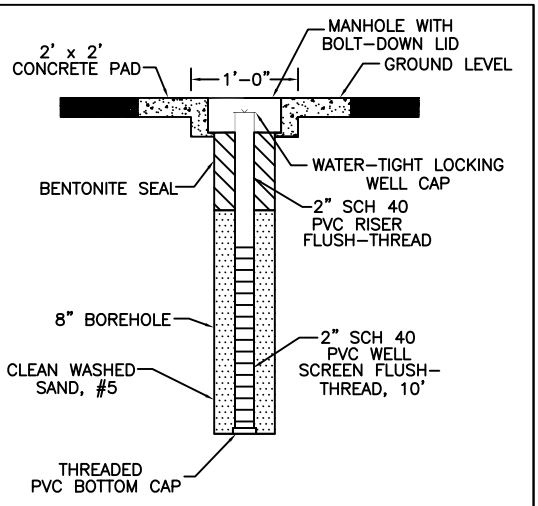

WATER LEVEL OBSERVATIONS

NOTED ON RODS:	--	ft.
AT COMPLETION:	--	ft.
AFTER -- hrs.:	--	ft.

LEGEND

IDNR# - WATER WELL DRILLER LICENSE NUMBER
TPV - TOTAL PHOTOIONIZABLE VAPORS
ppm - PARTS PER MILLION
SPT - STANDARD PENETRATION TEST
HSA - HOLLOW STEM AUGER
ND - NONE DETECTED
* SAMPLE SENT TO LABORATORY

WELL CONSTRUCTION NOTES

WELL DIAMETER:	2"
SCREEN LENGTH:	10'
SCREEN SLOT SIZE:	0.010"
DEVELOPMENT METHOD/DURATION:	Pump

AMERICAN ENVIRONMENTAL CORPORATION

FIELD BORING LOG/ WELL CONSTRUCTION DETAILS

CLIENT:	CIRCLE K #42	**BORING NUMBER:**	MW-3/B-4
PROJECT NAME:	ISC	**JOB NUMBER:**	441014
PROJECT LOCATION:	SELLERSBURG, IN	**START DATE, TIME:**	6/3/2024
BORING LOCATION:	SEE MAP	**BORING METHOD:**	HSA
DRILLER/IDNR#:	C. HUTCHESON #1736	**BOREHOLE DIAMETER:**	6"
FIELD SCIENTIST:	C. BOUWKAMP	**SAMPLING METHOD:**	DP

SOIL/ROCK DESCRIPTION	Depth (ft)	REC. %	LAB SAMPLE	TPV (ppm)
0-6" Asphalt	1	90		0.6
Silty clay(CL), dry, low plasticity(10YR 5/1)	2			
	3			32.9
	4			
	5			96.9
at 5' moist, high plasticity, odor	6	90		
	7		1	129.2
	8			
	9		2	5.4
Shale, moist, low plasticity(10YR 2/1)	10			
Bottom of Boring at 10'	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			
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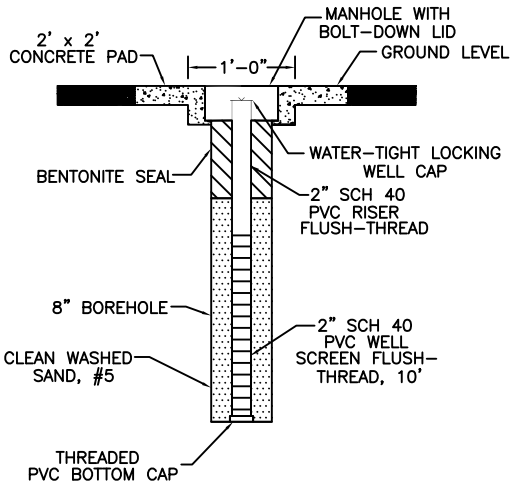

WATER LEVEL OBSERVATIONS

NOTED ON RODS:	--	ft.
AT COMPLETION:	--	ft.
AFTER -- hrs.:	--	ft.

LEGEND

IDNR# - WATER WELL DRILLER LICENSE NUMBER
TPV - TOTAL PHOTOIONIZABLE VAPORS
ppm - PARTS PER MILLION
SPT - STANDARD PENETRATION TEST
HSA - HOLLOW STEM AUGER
ND - NONE DETECTED
* SAMPLE SENT TO LABORATORY

WELL CONSTRUCTION NOTES

WELL DIAMETER:	2"
SCREEN LENGTH:	10'
SCREEN SLOT SIZE:	0.010"
DEVELOPMENT METHOD/DURATION:	Pump

AMERICAN ENVIRONMENTAL CORPORATION

FIELD BORING LOG/ WELL CONSTRUCTION DETAILS

CLIENT:	CIRCLE K #42	**BORING NUMBER:**	MW-4
PROJECT NAME:	ISC	**JOB NUMBER:**	441014
PROJECT LOCATION:	SELLERSBURG, IN	**START DATE, TIME:**	6/3/2024
BORING LOCATION:	SEE MAP	**BORING METHOD:**	HSA
DRILLER/IDNR#:	C. HUTCHESON #1736	**BOREHOLE DIAMETER:**	8"
FIELD SCIENTIST:	C. BOUWKAMP	**SAMPLING METHOD:**	DP

SOIL/ROCK DESCRIPTION	Depth (ft)	REC. %	LAB SAMPLE	TPV (ppm)
0-6" Asphalt	1	80	1	1.1
Silty clay(CL), dry, low plasticity(10YR 4/1)	2			
	3			0.4
	4			
at 5' moist, medium plasticity	5			0.0
	6	60		
at 8' (10YR 5/3), high plasticity	7			0.0
	8			
	9		2	0.0
	10	100		0.0
	11			
	12			0.0
Bottom of Boring at 13'	13			
	14			
	15			
	16			
	17			
	18			
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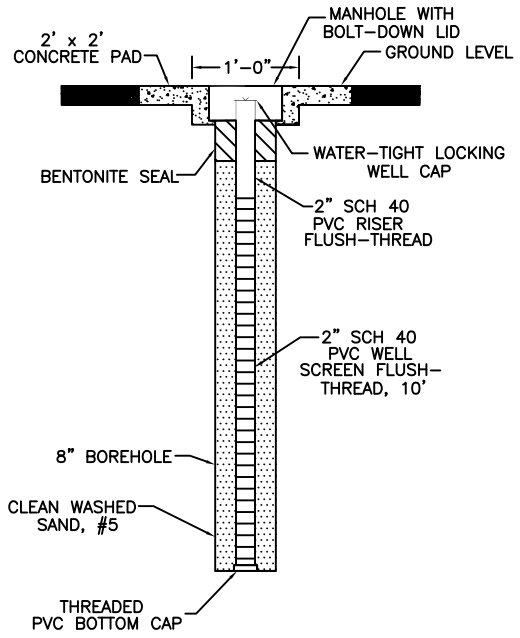
	28			
	29			



WATER LEVEL OBSERVATIONS

NOTED ON RODS:	--	ft.
AT COMPLETION:	--	ft.
AFTER -- hrs.:	--	ft.

LEGEND

IDNR# - WATER WELL DRILLER LICENSE NUMBER
TPV - TOTAL PHOTOIONIZABLE VAPORS
ppm - PARTS PER MILLION
SPT - STANDARD PENETRATION TEST
HSA - HOLLOW STEM AUGER
ND - NONE DETECTED
* SAMPLE SENT TO LABORATORY

WELL CONSTRUCTION NOTES

WELL DIAMETER:	2"
SCREEN LENGTH:	10'
SCREEN SLOT SIZE:	0.010"
DEVELOPMENT METHOD/DURATION:	Pump

APPENDIX C

Tank Tightness Testing Documentation

Testing and Inspection Certificate

Tanknology Inc.
11000 North MoPac Expressway, Suite 500, Austin, TX 78759
800-800-4633 www.tanknology.com

Test Date	9/8/2023	Tanknology WO#	MW1-6198437
Test Purpose	SIR	Customer PO#	6430-5510

Customer
CIRCLE K
P.O. BOX 347
COLUMBUS, IN 47202

Attn: LIZ WARD
(812) 378-1772

Location
CIRCLE K #42 (4700042)
602 S. INDIANA AVE
SELLERSBURG, IN 47172

Attn: MANAGER
(812) 246-9813

Test / Inspection Description	Item Tested	Date Tested	Result
Precision Tank Tightness	Tank T4 KEROSENE KEROSENE	9/8/2023	Pass
Precision Line Tightness (.1 GPH)	Tank 4 Line 1 KEROSENE	9/8/2023	Pass
Line Leak Detector (3 GPH)	Tank 4 Line 1 KEROSENE	9/8/2023	Pass
Line Leak Detector (3 GPH)	Tank 3 Line 1 Diesel	9/8/2023	Pass
Line Leak Detector (3 GPH)	Tank 1 Line 1 REG UNLEAD	9/8/2023	Pass
Line Leak Detector (3 GPH)	Tank 2 Line 1 PREMIUM	9/8/2023	Pass
Leak Detection Monitoring System Inspection	See test report for details	9/8/2023	Fail
Circle K ATG Audit	See test report for details	9/8/2023	Complete

Tanknology Representative: Dan Batten
Telephone: (614) 436-7600

Technician: Andrew Lawrence
Technician Certification: (See forms)

Tanknology

VacuTect
Tank Tightness Test

Work Order: 6198437 Date: 9/8/2023

Site Name/ID: CIRCLE K #42 4700042

Address: 602 S. INDIANA AVE

City: SELLERSBURG State: IN Zip: 47172

Tank Information	T4 KEROSENE					
Customer Tank ID	T4 KEROSENE					
Regulatory Tank ID	T4 KEROSENE					
Product Category	Kerosene					
Product Name	KEROSENE					
Gallons Capacity	4010					
Tank Type	Steel					
Tank Walls	Singlewall					
Compartmentalized	No					
Siphon Tank	No					
Vents included with test	with this tank					
Test Start Time	06:55:00					
Test End Time	08:35:00					
Water ingress (Y/N)	No					
Bubble ingress (Y/N)	No					
Ullage ingress (Y/N)	No					
Test Result (P/F/I)	**Pass**					

☑ Yes - Test was performed per 3rd party certifications as specified in 40 CFR parts 280 and 281. ☐ No - diagnostic only

Technician Comments :

Technician Name Andrew Lawrence Certification # UC2018IN12829C exp: 8/8/2024

Technician Signature 

Environmental Compliance for Petroleum Systems

Product Line Tightness Test

Work Order: 6198437 **Date:** 9/8/2023
Site Name/ID: CIRCLE K #42 / 4700042
Address: 602 S. INDIANA AVE
City: SELLERSBURG **State:** IN **Zip:** 47172

Tank Information	Tank # 4 Line # 1	Tank # Line #	Tank # Line #	Tank # Line #	Tank # Line #	Tank # Line #
Test Method	TLD-1					
Customer Tank ID	4					
Product Name	KEROSENE					
Delivery Type	Pressure					
Test Pressure (psi)	60					
Test Start Time	07:45					
Test End Time	08:15					
Final Leak Rate (gph)	0.00					
Test Result(P/F/I)	Pass					
Test was performed per 3rd party certifications as specified in 40 CFR parts 280 and 281	Yes					

Technician Comments:

Technician Name: Andrew Lawrence **Certification #:** UC2018IN12829C exp: 8/8/2024

Technician Signature:

Tanknology

LDT 5000 Field Test Apparatus
Line Leak Detector Test

Work Order: 6198437 Date: 9/8/2023
Site Name / ID: CIRCLE K #42 / 4700042
Address: 602 S. INDIANA AVE
City: SELLERSBURG State: IN Zip: 47172

Tank ID	T4 KEROSENE	T3 DIESEL	T1 REGULAR	T2 PREMIUM		
Product	KEROSENE	Diesel	REG UNLEAD	PREMIUM		
Product Line	1	1	1	1		
Tested From	6	5	3	3		
Existing/New	Existing	Existing	Existing	Existing		
Mechanical/Electronic	Electronic	Electronic	Electronic	Electronic		
Manufacturer/Model	Veeder Root PLLD	Veeder Root PLLD	Veeder Root PLLD	Veeder Root PLLD		
Serial No.	20450568	20450564	20460305	23140521		
Pump Operating Pressure (psi)	25.00	26.00	27.00	26.00		
Calibrated Leak (ml/min)	189.0	189.0	189.0	189.0		
Calibrated Leak (gph)	3.00	3.00	3.00	3.00		
Holding PSI *N/A for Electronic LD's						
Resiliency (ml) *N/A for Electronic LD's						
Metering PSI *N/A for Electronic LD's						
Opening Time (sec) *N/A for Electronic LD's						
Test Results	Pass	Pass	Pass	Pass		

Technician Comments:

Technician Name: Andrew Lawrence **Certification #:** 130137

Technician Signature: **Expire Date:** 12/1/2025

Environmental Compliance for Petroleum Systems

MONITORING SYSTEM CERTIFICATION

This form is used to document testing and servicing of tank and piping leak monitoring equipment. If required by applicable law, a copy of the completed form must be provided by the Testing Contractor or owner to the governing UST agency as required by regulation.

A. General Information

Facility Name: CIRCLE K #42 Bldg. No.:

Site Address: 602 S. INDIANA AVE City: SELLERSBURG State: IN Zip: 47172

Facility Contact Person: MANAGER Contact Phone No.: 812-246-9813

Make/Model of Monitoring System: Veeder Root TLS-450 PLUS Date of Testing/Servicing: 9/8/2023

B. Inventory of Equipment Tested/Certified Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: T1 REGULAR - REG UNLEAD

- [x] In-Tank Gauging Probe. Model: 846390-107
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump / Trench Sensor(s). Model:
- [ ] Fill Sump Sensor(s). Model:
- [ ] Mechanical Line Leak Detector. Model:
- [x] Electronic Line Leak Detector. Model: Veeder Root PLLD -
- [ ] Tank Overfill / High-Level Sensor. Model:
- [ ] Other (specify equipment type and model in Section E on Page 2).

Tank ID: T2 PREMIUM - PREMIUM

- [x] In-Tank Gauging Probe. Model: 846390-107
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump / Trench Sensor(s). Model:
- [ ] Fill Sump Sensor(s). Model:
- [ ] Mechanical Line Leak Detector. Model:
- [x] Electronic Line Leak Detector. Model: Veeder Root PLLD -
- [ ] Tank Overfill / High-Level Sensor. Model:
- [ ] Other (specify equipment type and model in Section E on Page 2).

Tank ID: T3 DIESEL - Diesel

- [x] In-Tank Gauging Probe. Model: 846390-107
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump / Trench Sensor(s). Model:
- [ ] Fill Sump Sensor(s). Model:
- [ ] Mechanical Line Leak Detector. Model:
- [x] Electronic Line Leak Detector. Model: Veeder Root PLLD -
- [ ] Tank Overfill / High-Level Sensor. Model:
- [ ] Other (specify equipment type and model in Section E on Page 2).

Tank ID: T4 KEROSENE - KEROSENE

- [x] In-Tank Gauging Probe. Model: 846390-107
- [ ] Annular Space or Vault Sensor. Model:
- [ ] Piping Sump / Trench Sensor(s). Model:
- [ ] Fill Sump Sensor(s). Model:
- [ ] Mechanical Line Leak Detector. Model:
- [x] Electronic Line Leak Detector. Model: Veeder Root PLLD
- [ ] Tank Overfill / High-Level Sensor. Model:
- [ ] Other (specify equipment type and model in Section E on Page 2).

Dispenser ID: 1/2

- [ ] Dispenser Containment Sensor(s). Model:
- [x] Shear Valve(s).
- [ ] Dispenser Containment Float(s) and Chain(s).

Dispenser ID: 3/4

- [ ] Dispenser Containment Sensor(s). Model:
- [x] Shear Valve(s).
- [ ] Dispenser Containment Float(s) and Chain(s).

Dispenser ID: 5/6

- [ ] Dispenser Containment Sensor(s). Model:
- [x] Shear Valve(s).
- [ ] Dispenser Containment Float(s) and Chain(s).

Dispenser ID:

- [ ] Dispenser Containment Sensor(s). Model:
- [ ] Shear Valve(s).
- [ ] Dispenser Containment Float(s) and Chain(s).

Dispenser ID:

- [ ] Dispenser Containment Sensor(s). Model:
- [ ] Shear Valve(s).
- [ ] Dispenser Containment Float(s) and Chain(s).

Dispenser ID:

- [ ] Dispenser Containment Sensor(s). Model:
- [ ] Shear Valve(s).
- [ ] Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*: [x] System set-up [x] Alarm history report

Technician Name (print): Andrew Lawrence Signature: 

Certification No.: B48345 License. No.:

Testing Company Name: Tanknology Phone No.: (800) 800-4633

Testing Company Address: 11000 N. MoPac Expressway Suite 500 Date of Testing/Servicing: 9/8/2023

D. Results of Testing/Servicing

Software Version Installed: _____

Complete the following checklist:

☑ Yes	☐ No* ☐ N/A	Is the **visual** alarm on the console operational?
☑ Yes	☐ No* ☐ N/A	Is the **audible** alarm on the console operational?
☐ Yes	☑ No	Is the external **visual** overfill alarm (light unit) present?
☐ Yes	☐ No* ☑ N/A	Is the external **visual** overfill alarm operating properly?
☐ Yes	☑ No	Is the external **audible** overfill alarm present?
☐ Yes	☐ No* ☑ N/A	Is the external **audible** overfill alarm operating properly?
%	☑ N/A	At what percent of tank(s) capacity is the external alarm programmed to trigger? *If different % between tanks, clarify in section E.*
☐ Yes	☐ No* ☑ N/A	Were all sensors visually inspected, functionally tested, and confirmed operational?
☐ Yes	☐ No* ☑ N/A	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☑ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No
☐ Yes*	☑ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☑ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☑ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☑ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

* In Section E below, describe how and when these deficiencies were or will be corrected.

E. Comments:

Backup Battery reading, if applicable (Required for VR TLS 300/350):

F. In-Tank Gauging / SIR Equipment:

☐ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☑ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☐ Yes	☑ No*	Was accuracy of system product level readings tested?
☐ Yes	☑ No*	Was accuracy of system water level readings tested?
☑ Yes	☐ No*	Were all probes reinstalled properly?
☑ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

* In the Section G, below, describe how and when these deficiencies were or will be corrected.

G. Comments:

DID OVERALL MONITOR SYSTEM TESTING PASS (Check One)? YES☐ NO ☑
INCONCLUSIVE ☐

ATG Audit Certification

Client: 4700042 Work order # MW1-6198437

Store #: CIRCLE K #42

Address: 602 S. INDIANA AVE

City: SELLERSBURG State: IN Zip: 47172

Monitor Model/Type: TLS 450 PLUS

Yes ☑ No ☐ All tank gauging probes were visually inspected and confirmed to be free of damage and residue buildup? (If No, add comments below).

Yes ☑ No ☐ Tank probes confirmed to read water and product levels accurately? (If No, add comments below)

Comments:

I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturer's guidelines, and in operation upon my departure unless otherwise noted.

Print Name: Andrew Lawrence

Signature: 

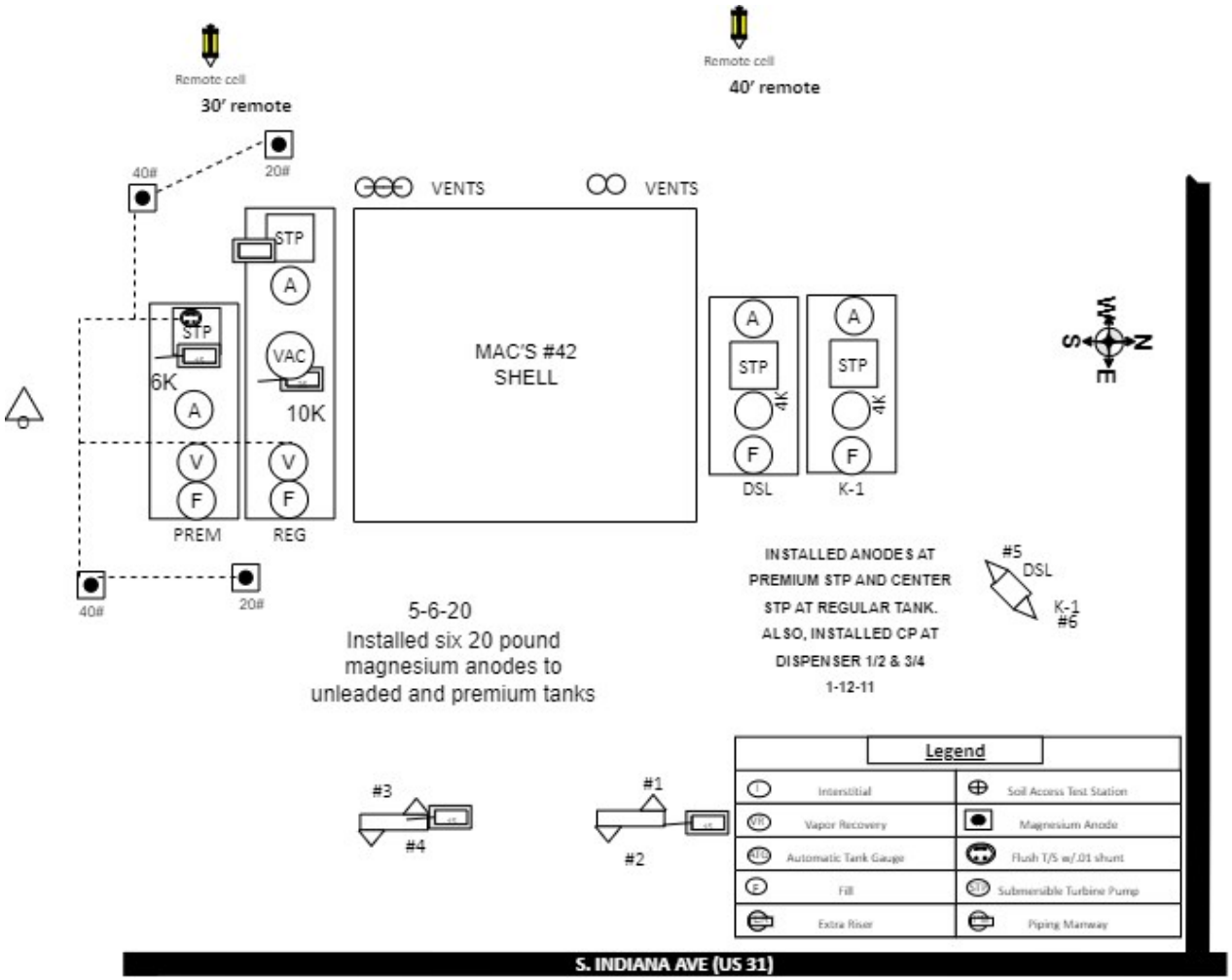
Date: 09/08/2023

Site Diagram

(This site diagram is for reference only and is not drawn to scale)

Work Order:	6198437
Site ID / Name:	4700042 / CIRCLE K #42
Address:	602 S. INDIANA AVE
City:	SELLERSBURG

State: IN Zip: 47172



W.O.# MW1-6198437 Cust Ref#: 6430-5510

Tanknology Inc.
[illegible] Suite 500 Austin, TX 78[illegible]

Policy 100-29-A
Rev: H
Revised: 6/25/2022

JOB CLEARANCE FORM & SITE SAFETY CHECKLIST – OVF

Site Name/#: CIRCLE K #42	Street Address: 602 S. INDIANA AVE SELLERSBURG, IN. 47172		W.O. # 6198437
Arrival Time: 0711	Departure Time: 1003	Travel Time:	Others on site:	Date 9-8-23

Scope of Work and Tasks Performed (JSA's must be available for all tasks):
SIR - TEST KS1 TANK, LINE, LD, IMPV, ATG

Repairs to Equipment or Parts Provided:

Follow-up actions required; equipment isolated; comments:

PPE - PERSONAL PROTECTIVE EQUIPMENT REQUIRED (Check ✓ items used or mark ~ if not applicable)

- ☑ Safety Vest/Shirt (all jobs)
- ☐ Safety Toe Boots (all jobs)
- ☐ Gloves (all jobs)
- ☐ Safety Glasses (all jobs)
- ☑ Splash Goggles (if needed)
- ☐ Hard Hat (if needed)
- ☐ Hearing Protection (if needed)
- ☐ Other _____

✓ PRE-TEST PROCEDURES (Check ✓ each item completed or mark ~ if not applicable)

1. ☑ Discuss safety procedures with site personnel. Nearest hospital: 911
2. ☑ Get ATG printout & check fuel/water levels. Prior to fuel delivery the system must be placed back into working order.
3. ☑ Barricade work area (cones, flags, bars/tape) and place Fire Extinguishers & "No Smoking" Signs at perimeter.
4. ☑ Confined Space Entry – If required complete separate CSE Checklist. If NO CSE check the following reason:
   ☐ No CS's ☐ CS's not opened ☐ No entry only visual ☐ No entry - used tools ☑ Work from prone position w/o risk of falling in
5. ☑ Implement Lockout/Tagout per API 1646 (when accessing product piping during tasks)
   - ☑ Secure nozzles with "Out of Service" bags and nylon ties.
   - ☑ Close ball valves or check valves on product piping.
   - ☐ All applicable equipment disabled during test(s).
   - ☑ Secure the circuit breaker(s) with lockout devices and tags.
   - ☐ Disconnect electrical "bayonet" connector from the STP(s).
   - ☑ **Verify LOTO is complete by trying to operate pumps.**

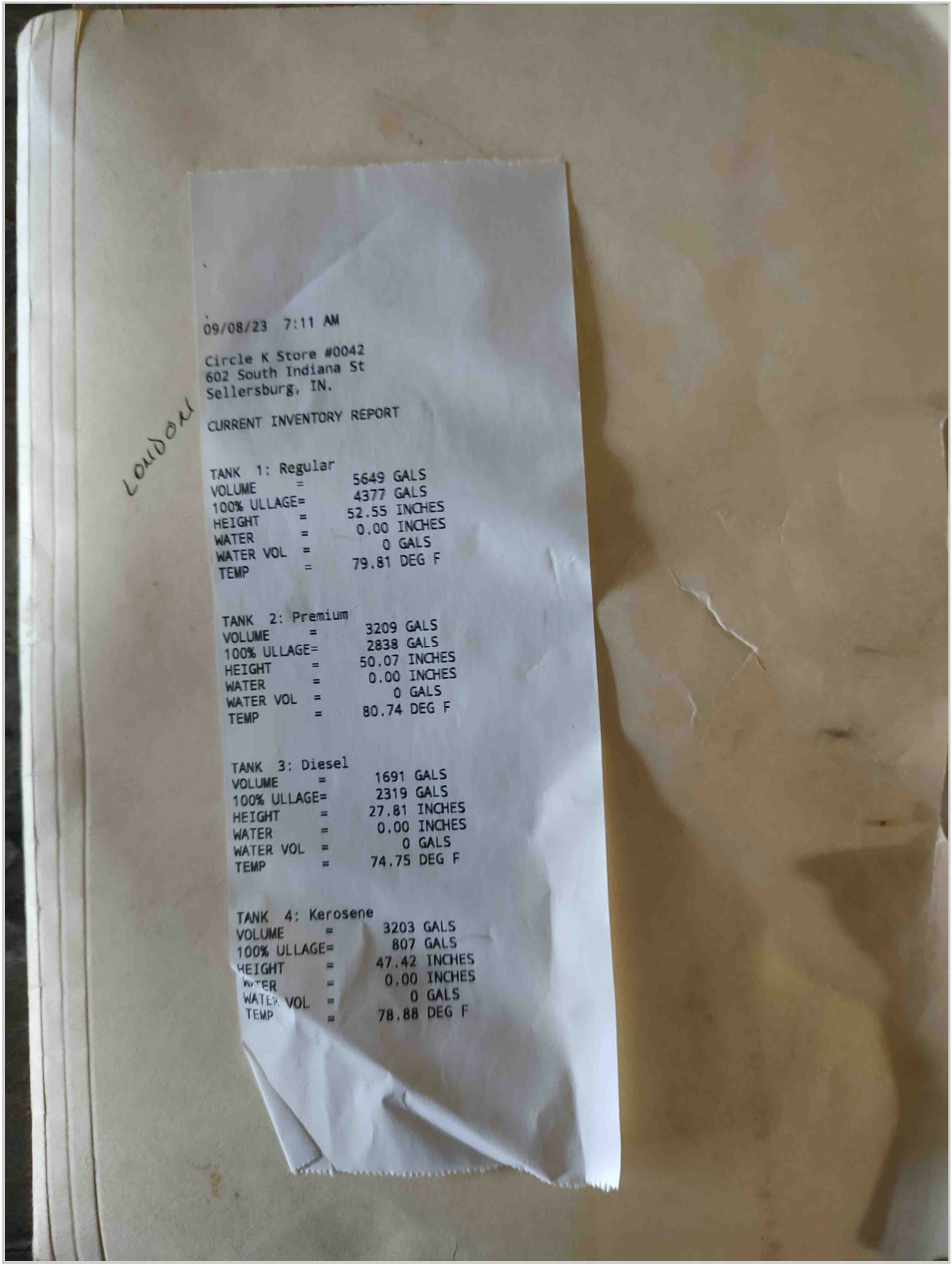
SIGN IN	Lead Technician Name	Lead Technician Signature
General Safety Checks: All site personnel have been informed. Is a fuel delivery due today? _____ LOTO procedures have been discussed. Work areas barricaded to protect workers, staff & public.	ANDREW LAWRENCE	
	Site Representative Name	Site Representative Signature

✓ POST-TEST PROCEDURES (Check ✓ each item completed or mark ~ if not applicable)

1. ☑ Remove all "Lockout/Tagout" devices and nozzle bags/ties.
2. ☑ Run all pumps and verify there are no leaks:
   - ☐ Leak Detector & Vent Tubes
   - ☑ Impact Valve Test Ports under dispensers
   - ☐ STP Functional Elements & Relief Screws
3. ☐ Get ATG printout. Confirm water levels same as start or explain difference: _____
4. ☑ Check following components operational:
   - ☑ ATG probes, sensors, & caps
   - ☑ Ball floats, dry breaks & caps
   - ☑ Containment sumps are dry
   - ☑ Manhole covers and sump lids
   - ☑ Spill containers & drain valves
   - ☑ Drop tubes, flapper valves, fill adapters & caps
   - ☑ Shear valves are open
   - ☑ Dispensers & POS operational
   - ☑ Dispenser panels are replaced
   - ☑ Vents & Extractors (not capped, plugged or isolated)
   - ☐ Cathodic protection operational
   - ☐ Siphon lines and manifold valves open
5. ☑ Remove barricades.

SIGN OUT & Operator Verification of Work (OVF)	Lead Technician Name	Lead Technician Signature
General Safety Checks: Work area has been left clean & safe. Site staff aware of work status including any remaining isolation. Changes to equipment are documented and communicated. All incidents, near incidents, and unsafe situations reported.	ANDREW LAWRENCE	
	Site Representative Name	Site Representative Signature

Site Representative Comments:



09/08/23 7:11 AM

Circle K Store #0042
602 South Indiana St
Sellersburg, IN.

CURRENT INVENTORY REPORT

Loudon

TANK 1: Regular

VOLUME	=	5649 GALS
100% ULLAGE	=	4377 GALS
HEIGHT	=	52.55 INCHES
WATER	=	0.00 INCHES
WATER VOL	=	0 GALS
TEMP	=	79.81 DEG F

TANK 2: Premium

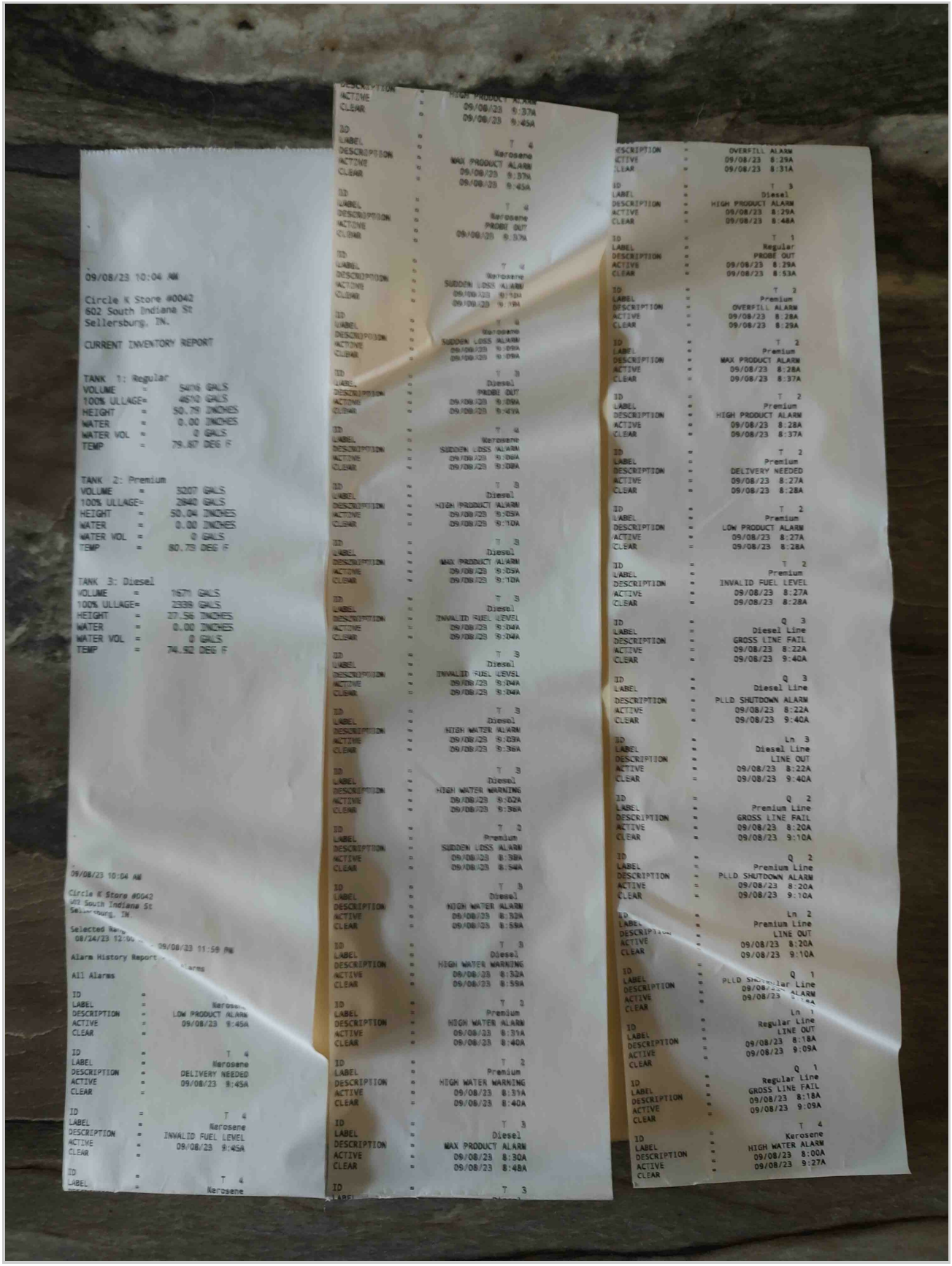
VOLUME	=	3209 GALS
100% ULLAGE	=	2838 GALS
HEIGHT	=	50.07 INCHES
WATER	=	0.00 INCHES
WATER VOL	=	0 GALS
TEMP	=	80.74 DEG F

TANK 3: Diesel

VOLUME	=	1691 GALS
100% ULLAGE	=	2319 GALS
HEIGHT	=	27.81 INCHES
WATER	=	0.00 INCHES
WATER VOL	=	0 GALS
TEMP	=	74.75 DEG F

TANK 4: Kerosene

VOLUME	=	3203 GALS
100% ULLAGE	=	807 GALS
HEIGHT	=	47.42 INCHES
WATER	=	0.00 INCHES
WATER VOL	=	0 GALS
TEMP	=	78.88 DEG F



09/08/23 10:04 AM

Circle K Store #0042
602 South Indiana St
Sellersburg, IN.

CURRENT INVENTORY REPORT

TANK 1: Regular
VOLUME = 5476 GALS
100% ULLAGE= 4610 GALS
HEIGHT = 50.79 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 79.87 DEG F

TANK 2: Premium
VOLUME = 3207 GALS
100% ULLAGE= 2840 GALS
HEIGHT = 50.04 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 80.73 DEG F

TANK 3: Diesel
VOLUME = 1671 GALS
100% ULLAGE= 2339 GALS
HEIGHT = 27.56 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 74.92 DEG F

09/08/23 10:04 AM

Circle K Store #0042
602 South Indiana St
Sellersburg, IN.

Alarm History Report 09/08/23 11:59 PM

All Alarms

ID =
LABEL = Kerosene
DESCRIPTION = LOW PRODUCT ALARM
ACTIVE = 09/08/23 9:45A
CLEAR =

ID = T 4
LABEL = Kerosene
DESCRIPTION = DELIVERY NEEDED
ACTIVE = 09/08/23 9:45A
CLEAR =

ID = T 4
LABEL = Kerosene
DESCRIPTION = INVALID FUEL LEVEL
ACTIVE = 09/08/23 9:45A
CLEAR =

ID = T 4
LABEL = Kerosene
DESCRIPTION = HIGH PRODUCT ALARM
ACTIVE = 09/08/23 9:37A
CLEAR = 09/08/23 9:45A

ID = T 4
LABEL = Kerosene
DESCRIPTION = MAX PRODUCT ALARM
ACTIVE = 09/08/23 9:37A
CLEAR = 09/08/23 9:45A

ID = T 4
LABEL = Kerosene
DESCRIPTION = PROBE OUT
ACTIVE = 09/08/23 9:37A
CLEAR =

ID = T 4
LABEL = Kerosene
DESCRIPTION = SUDDEN LOSS ALARM
ACTIVE = 09/08/23 9:09A
CLEAR = 09/08/23 9:09A

ID = T 4
LABEL = Kerosene
DESCRIPTION = SUDDEN LOSS ALARM
ACTIVE = 09/08/23 9:09A
CLEAR = 09/08/23 9:09A

ID = T 3
LABEL = Diesel
DESCRIPTION = PROBE OUT
ACTIVE = 09/08/23 9:09A
CLEAR = 09/08/23 9:47A

ID = T 4
LABEL = Kerosene
DESCRIPTION = SUDDEN LOSS ALARM
ACTIVE = 09/08/23 9:08A
CLEAR = 09/08/23 9:08A

ID = T 3
LABEL = Diesel
DESCRIPTION = HIGH PRODUCT ALARM
ACTIVE = 09/08/23 9:03A
CLEAR = 09/08/23 9:10A

ID = T 3
LABEL = Diesel
DESCRIPTION = MAX PRODUCT ALARM
ACTIVE = 09/08/23 9:03A
CLEAR = 09/08/23 9:10A

ID = T 3
LABEL = Diesel
DESCRIPTION = INVALID FUEL LEVEL
ACTIVE = 09/08/23 9:04A
CLEAR = 09/08/23 9:04A

ID = T 3
LABEL = Diesel
DESCRIPTION = INVALID FUEL LEVEL
ACTIVE = 09/08/23 9:04A
CLEAR = 09/08/23 9:04A

ID = T 3
LABEL = Diesel
DESCRIPTION = HIGH WATER ALARM
ACTIVE = 09/08/23 9:03A
CLEAR = 09/08/23 9:36A

ID = T 3
LABEL = Diesel
DESCRIPTION = HIGH WATER WARNING
ACTIVE = 09/08/23 9:02A
CLEAR = 09/08/23 9:36A

ID = T 2
LABEL = Premium
DESCRIPTION = SUDDEN LOSS ALARM
ACTIVE = 09/08/23 8:38A
CLEAR = 09/08/23 8:54A

ID = T 3
LABEL = Diesel
DESCRIPTION = HIGH WATER ALARM
ACTIVE = 09/08/23 8:32A
CLEAR = 09/08/23 8:59A

ID = T 3
LABEL = Diesel
DESCRIPTION = HIGH WATER WARNING
ACTIVE = 09/08/23 8:32A
CLEAR = 09/08/23 8:59A

ID = T 2
LABEL = Premium
DESCRIPTION = HIGH WATER ALARM
ACTIVE = 09/08/23 8:31A
CLEAR = 09/08/23 8:40A

ID = T 2
LABEL = Premium
DESCRIPTION = HIGH WATER WARNING
ACTIVE = 09/08/23 8:31A
CLEAR = 09/08/23 8:40A

ID = T 3
LABEL = Diesel
DESCRIPTION = MAX PRODUCT ALARM
ACTIVE = 09/08/23 8:30A
CLEAR = 09/08/23 8:48A

ID = T 3
LABEL = Diesel
DESCRIPTION = OVERFILL ALARM
ACTIVE = 09/08/23 8:29A
CLEAR = 09/08/23 8:31A

ID = T 3
LABEL = Diesel
DESCRIPTION = HIGH PRODUCT ALARM
ACTIVE = 09/08/23 8:29A
CLEAR = 09/08/23 8:48A

ID = T 1
LABEL = Regular
DESCRIPTION = PROBE OUT
ACTIVE = 09/08/23 8:29A
CLEAR = 09/08/23 8:53A

ID = T 2
LABEL = Premium
DESCRIPTION = OVERFILL ALARM
ACTIVE = 09/08/23 8:28A
CLEAR = 09/08/23 8:29A

ID = T 2
LABEL = Premium
DESCRIPTION = MAX PRODUCT ALARM
ACTIVE = 09/08/23 8:28A
CLEAR = 09/08/23 8:37A

ID = T 2
LABEL = Premium
DESCRIPTION = HIGH PRODUCT ALARM
ACTIVE = 09/08/23 8:28A
CLEAR = 09/08/23 8:37A

ID = T 2
LABEL = Premium
DESCRIPTION = DELIVERY NEEDED
ACTIVE = 09/08/23 8:27A
CLEAR = 09/08/23 8:28A

ID = T 2
LABEL = Premium
DESCRIPTION = LOW PRODUCT ALARM
ACTIVE = 09/08/23 8:27A
CLEAR = 09/08/23 8:28A

ID = T 2
LABEL = Premium
DESCRIPTION = INVALID FUEL LEVEL
ACTIVE = 09/08/23 8:27A
CLEAR = 09/08/23 8:28A

ID = Q 3
LABEL = Diesel Line
DESCRIPTION = GROSS LINE FAIL
ACTIVE = 09/08/23 8:22A
CLEAR = 09/08/23 9:40A

ID = Q 3
LABEL = Diesel Line
DESCRIPTION = PLLD SHUTDOWN ALARM
ACTIVE = 09/08/23 8:22A
CLEAR = 09/08/23 9:40A

ID = Ln 3
LABEL = Diesel Line
DESCRIPTION = LINE OUT
ACTIVE = 09/08/23 8:22A
CLEAR = 09/08/23 9:40A

ID = Q 2
LABEL = Premium Line
DESCRIPTION = GROSS LINE FAIL
ACTIVE = 09/08/23 8:20A
CLEAR = 09/08/23 9:10A

ID = Q 2
LABEL = Premium Line
DESCRIPTION = PLLD SHUTDOWN ALARM
ACTIVE = 09/08/23 8:20A
CLEAR = 09/08/23 9:10A

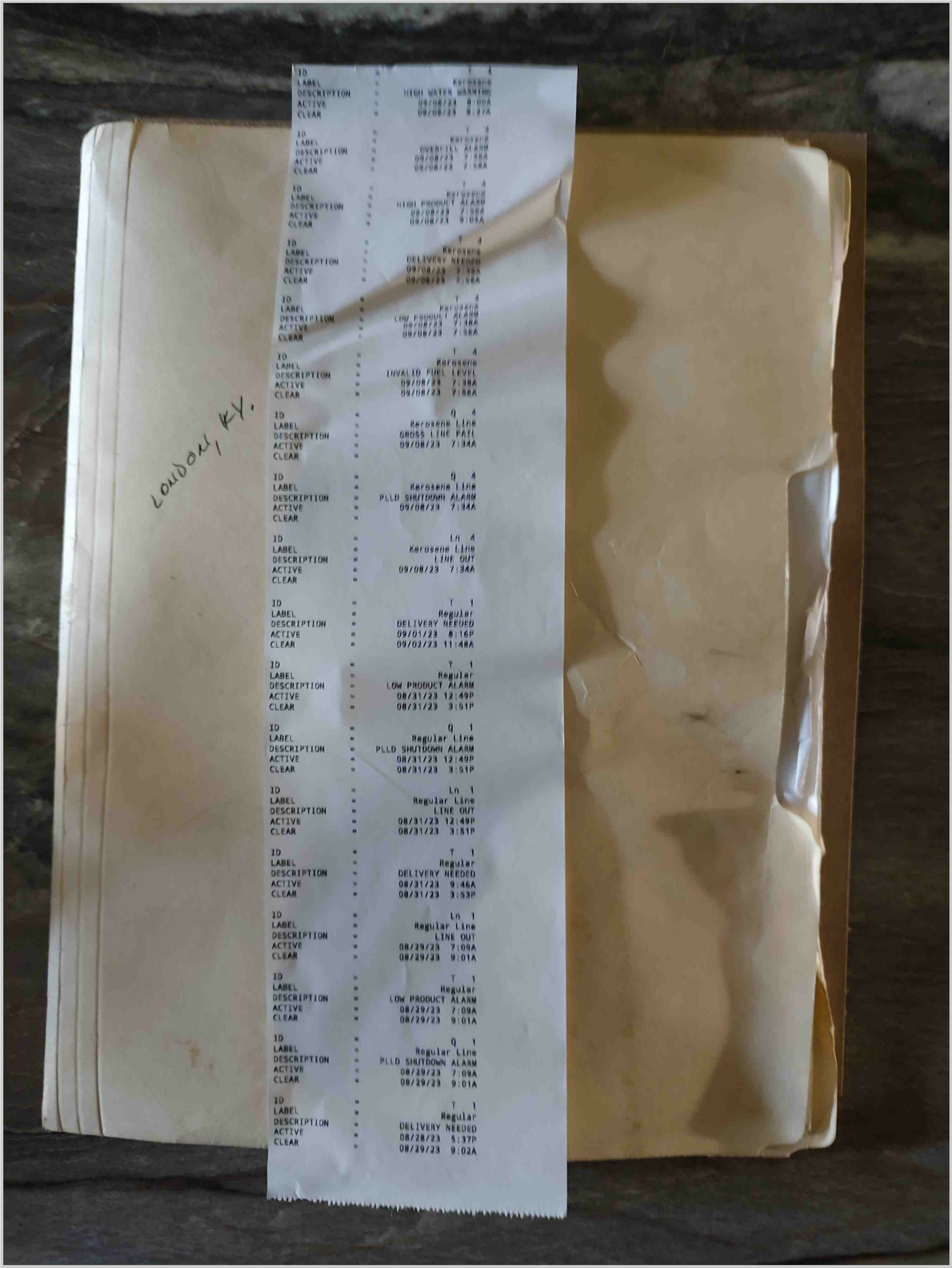
ID = Ln 2
LABEL = Premium Line
DESCRIPTION = LINE OUT
ACTIVE = 09/08/23 8:20A
CLEAR = 09/08/23 9:10A

ID = Q 1
LABEL = Regular Line
DESCRIPTION = PLLD SHUTDOWN ALARM
ACTIVE = 09/08/23 8:18A
CLEAR = 09/08/23 9:09A

ID = Ln 1
LABEL = Regular Line
DESCRIPTION = LINE OUT
ACTIVE = 09/08/23 8:18A
CLEAR = 09/08/23 9:09A

ID = Q 1
LABEL = Regular Line
DESCRIPTION = GROSS LINE FAIL
ACTIVE = 09/08/23 8:18A
CLEAR = 09/08/23 9:09A

ID = T 4
LABEL = Kerosene
DESCRIPTION = HIGH WATER ALARM
ACTIVE = 09/08/23 8:00A
CLEAR = 09/08/23 9:27A



ID = T 4
LABEL = Kerosene
DESCRIPTION = HIGH WATER WARNING
ACTIVE = 09/08/23 8:00A
CLEAR = 09/08/23 8:27A

ID = T 4
LABEL = Kerosene
DESCRIPTION = OVERFILL ALARM
ACTIVE = 09/08/23 7:58A
CLEAR = 09/08/23 7:58A

ID = T 4
LABEL = Kerosene
DESCRIPTION = HIGH PRODUCT ALARM
ACTIVE = 09/08/23 7:58A
CLEAR = 09/08/23 9:05A

ID = T 4
LABEL = Kerosene
DESCRIPTION = DELIVERY NEEDED
ACTIVE = 09/08/23 7:38A
CLEAR = 09/08/23 7:56A

ID = T 4
LABEL = Kerosene
DESCRIPTION = LOW PRODUCT ALARM
ACTIVE = 09/08/23 7:38A
CLEAR = 09/08/23 7:56A

ID = T 4
LABEL = Kerosene
DESCRIPTION = INVALID FUEL LEVEL
ACTIVE = 09/08/23 7:38A
CLEAR = 09/08/23 7:56A

ID = Q 4
LABEL = Kerosene Line
DESCRIPTION = GROSS LINE FAIL
ACTIVE = 09/08/23 7:34A
CLEAR =

ID = Q 4
LABEL = Kerosene Line
DESCRIPTION = PLLD SHUTDOWN ALARM
ACTIVE = 09/08/23 7:34A
CLEAR =

ID = Ln 4
LABEL = Kerosene Line
DESCRIPTION = LINE OUT
ACTIVE = 09/08/23 7:34A
CLEAR =

ID = T 1
LABEL = Regular
DESCRIPTION = DELIVERY NEEDED
ACTIVE = 09/01/23 8:16P
CLEAR = 09/02/23 11:48A

ID = T 1
LABEL = Regular
DESCRIPTION = LOW PRODUCT ALARM
ACTIVE = 08/31/23 12:49P
CLEAR = 08/31/23 3:51P

ID = Q 1
LABEL = Regular Line
DESCRIPTION = PLLD SHUTDOWN ALARM
ACTIVE = 08/31/23 12:49P
CLEAR = 08/31/23 3:51P

ID = Ln 1
LABEL = Regular Line
DESCRIPTION = LINE OUT
ACTIVE = 08/31/23 12:49P
CLEAR = 08/31/23 3:51P

ID = T 1
LABEL = Regular
DESCRIPTION = DELIVERY NEEDED
ACTIVE = 08/31/23 9:46A
CLEAR = 08/31/23 3:53P

ID = Ln 1
LABEL = Regular Line
DESCRIPTION = LINE OUT
ACTIVE = 08/29/23 7:09A
CLEAR = 08/29/23 9:01A

ID = T 1
LABEL = Regular
DESCRIPTION = LOW PRODUCT ALARM
ACTIVE = 08/29/23 7:09A
CLEAR = 08/29/23 9:01A

ID = Q 1
LABEL = Regular Line
DESCRIPTION = PLLD SHUTDOWN ALARM
ACTIVE = 08/29/23 7:09A
CLEAR = 08/29/23 9:01A

ID = T 1
LABEL = Regular
DESCRIPTION = DELIVERY NEEDED
ACTIVE = 08/28/23 5:37P
CLEAR = 08/29/23 9:02A

Testing and Inspection Certificate

Tanknology Inc.
11000 North MoPac Expressway, Suite 500, Austin, TX 78759
800-800-4633 www.tanknology.com

Test Date	8/2/2023	Tanknology WO#	MW1-6197998
Test Purpose	SIR	Customer PO#	6430-5510

Customer
CIRCLE K
P.O. BOX 347
COLUMBUS, IN 47202

Attn: LIZ WARD
(812) 378-1772

Location
CIRCLE K #42 (4700042)
602 S. INDIANA AVE
SELLERSBURG, IN 47172

Attn: MANAGER
(812) 246-9813

Test / Inspection Description	Item Tested	Date Tested	Result
Precision Tank Tightness	Tank T3 DIESEL Diesel	8/2/2023	Pass
Precision Tank Tightness	Tank T4 KEROSENE KEROSENE	8/2/2023	Pass

Tanknology Representative: Dan Batten
Telephone: (614) 436-7600

Technician: Andrew Lawrence
Technician Certification: (See forms)

Tanknology

VacuTect
Tank Tightness Test

Work Order: 6197998 Date: 8/2/2023

Site Name/ID: CIRCLE K #42 4700042

Address: 602 S. INDIANA AVE

City: SELLERSBURG State: IN Zip: 47172

Tank Information	T3 DIESEL	T4 KEROSENE				
Customer Tank ID	T3 DIESEL	T4 KEROSENE				
Regulatory Tank ID	T3 DIESEL	T4 KEROSENE				
Product Category	Diesel	Kerosene				
Product Name	Diesel	KEROSENE				
Gallons Capacity	4010	4010				
Tank Type	Steel	Steel				
Tank Walls	Singlewall	Singlewall				
Compartmentalized	No	No				
Siphon Tank	No	No				
Vents included with test	with this tank	with this tank				
Test Start Time	09:16:00	11:03:00				
Test End Time	10:48:00	12:23:00				
Water ingress (Y/N)	No	No				
Bubble ingress (Y/N)	No	No				
Ullage ingress (Y/N)	No	No				
Test Result (P/F/I)	**Pass**	**Pass**				

☑ Yes - Test was performed per 3rd party certifications as specified in 40 CFR parts 280 and 281. ☐ No - diagnostic only

Technician Comments :

Technician Name Andrew Lawrence Certification # UC2018IN12829C exp: 8/8/2024

Technician Signature

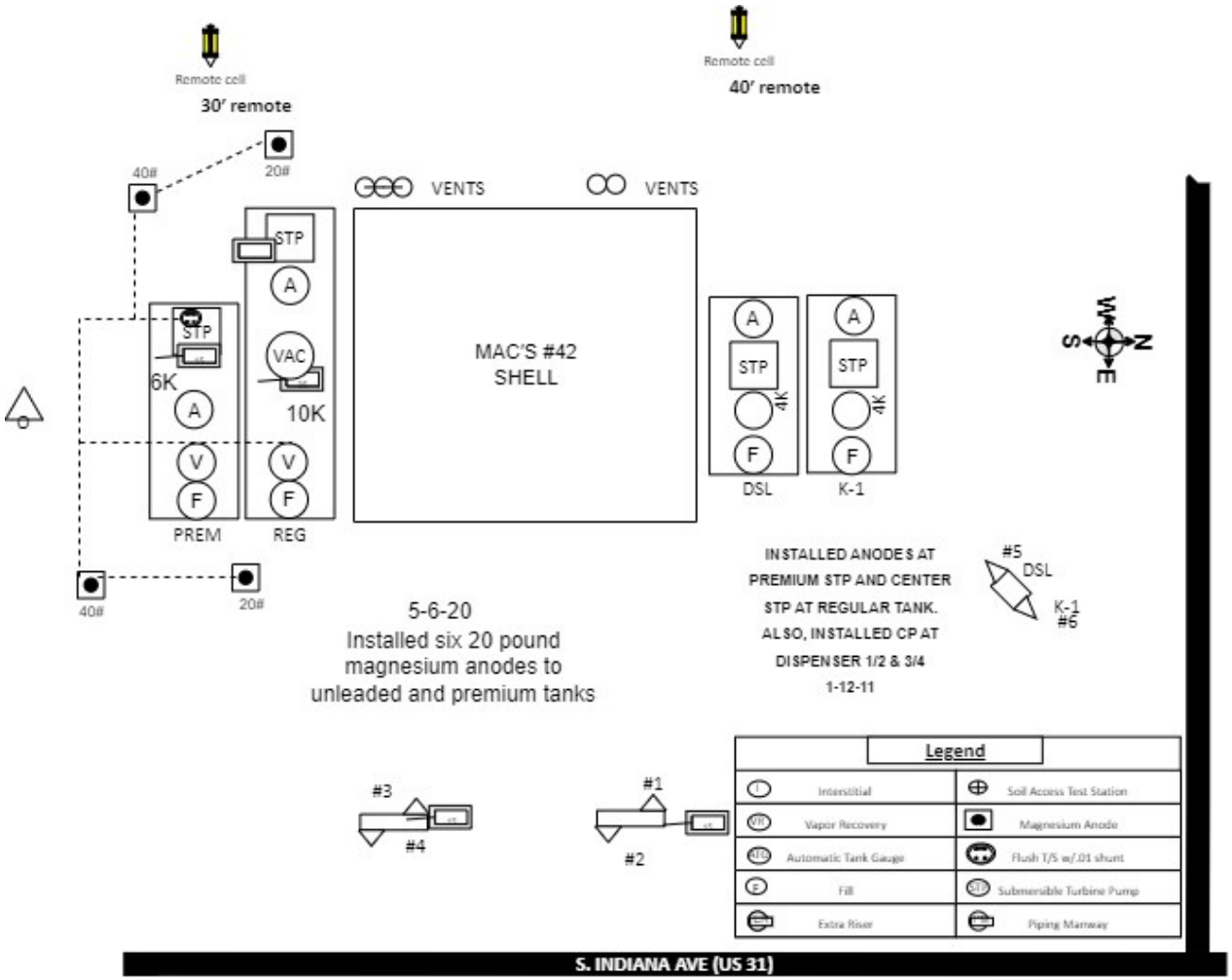
Environmental Compliance for Petroleum Systems

Site Diagram

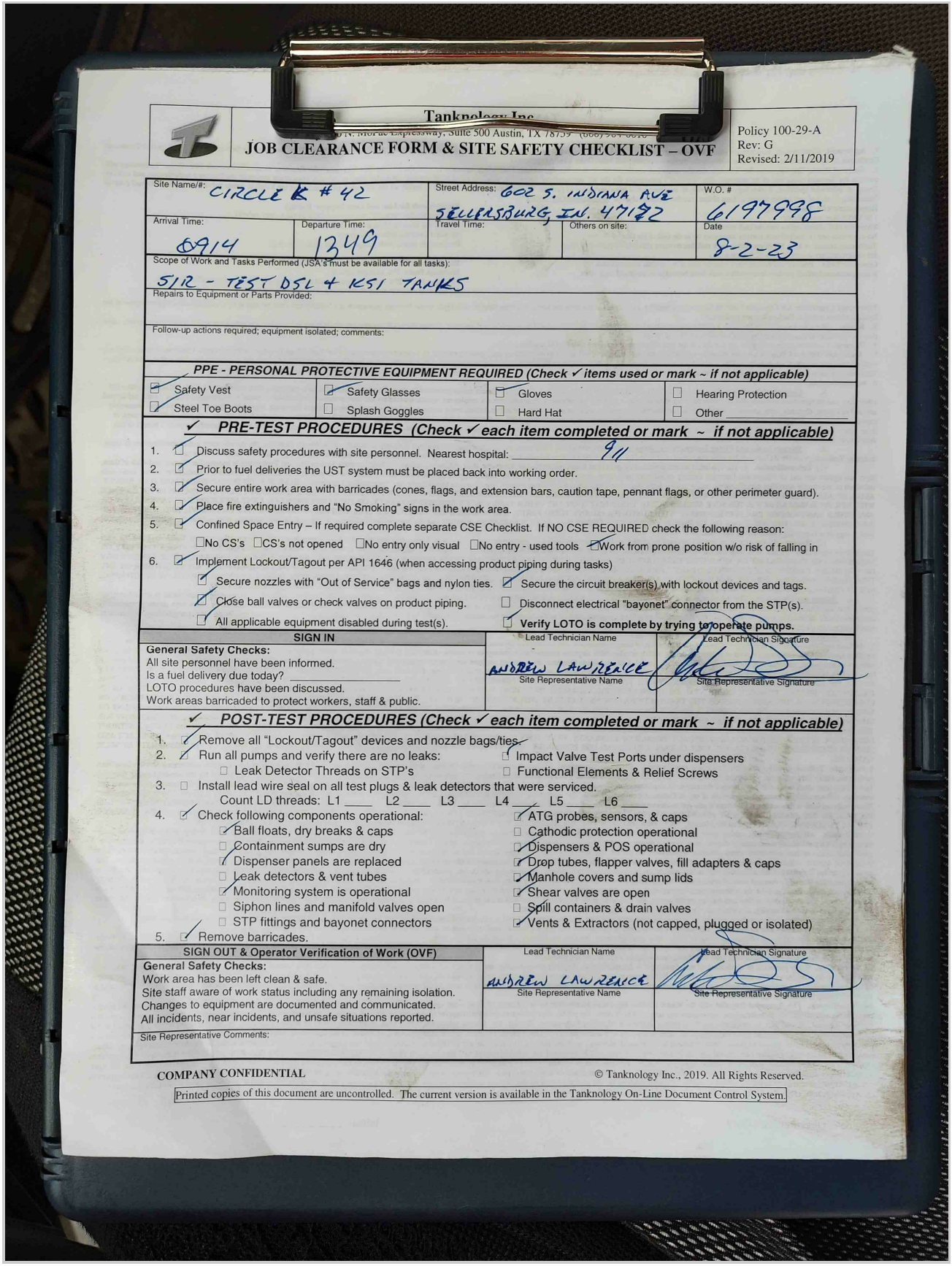
(This site diagram is for reference only and is not drawn to scale)

Work Order:	6197998
Site ID / Name:	4700042 / CIRCLE K #42
Address:	602 S. INDIANA AVE
City:	SELLERSBURG

State: IN Zip: 47172



W.O.# MW1-6197998 Cust Ref#: 6430-5510



Tanknology Inc
[illegible] Suite 500 Austin, TX 78759 (888) 984-8651

JOB CLEARANCE FORM & SITE SAFETY CHECKLIST – OVF

Policy 100-29-A
Rev: G
Revised: 2/11/2019

Site Name/#:	Street Address:	W.O. #
CIRCLE K # 42	602 S. INDIANA AVE SELLERSBURG, IN. 47172	6197998

Arrival Time:	Departure Time:	Travel Time:	Others on site:	Date
0914	1349			8-2-23

Scope of Work and Tasks Performed (JSA's must be available for all tasks):
S/R - TEST DSL & KSI TANKS

Repairs to Equipment or Parts Provided:

Follow-up actions required; equipment isolated; comments:

PPE - PERSONAL PROTECTIVE EQUIPMENT REQUIRED (Check ✓ items used or mark ~ if not applicable)

☑ Safety Vest	☑ Safety Glasses	☑ Gloves	☐ Hearing Protection
☑ Steel Toe Boots	☐ Splash Goggles	☐ Hard Hat	☐ Other _____

✓ PRE-TEST PROCEDURES (Check ✓ each item completed or mark ~ if not applicable)

1. ☑ Discuss safety procedures with site personnel. Nearest hospital: 911
2. ☑ Prior to fuel deliveries the UST system must be placed back into working order.
3. ☑ Secure entire work area with barricades (cones, flags, and extension bars, caution tape, pennant flags, or other perimeter guard).
4. ☑ Place fire extinguishers and "No Smoking" signs in the work area.
5. ☑ Confined Space Entry – If required complete separate CSE Checklist. If NO CSE REQUIRED check the following reason:
   ☐ No CS's ☐ CS's not opened ☐ No entry only visual ☐ No entry - used tools ☑ Work from prone position w/o risk of falling in
6. ☑ Implement Lockout/Tagout per API 1646 (when accessing product piping during tasks)
   - ☑ Secure nozzles with "Out of Service" bags and nylon ties.
   - ☑ Secure the circuit breaker(s) with lockout devices and tags.
   - ☑ Close ball valves or check valves on product piping.
   - ☐ Disconnect electrical "bayonet" connector from the STP(s).
   - ☑ All applicable equipment disabled during test(s).
   - ☑ **Verify LOTO is complete by trying to operate pumps.**

SIGN IN	Lead Technician Name	Lead Technician Signature
General Safety Checks: All site personnel have been informed. Is a fuel delivery due today? _____ LOTO procedures have been discussed. Work areas barricaded to protect workers, staff & public.	ANDREW LAWRENCE Site Representative Name	Site Representative Signature

✓ POST-TEST PROCEDURES (Check ✓ each item completed or mark ~ if not applicable)

1. ☑ Remove all "Lockout/Tagout" devices and nozzle bags/ties.
2. ☑ Run all pumps and verify there are no leaks:
   - ☐ Leak Detector Threads on STP's
   - ☐ Impact Valve Test Ports under dispensers
   - ☐ Functional Elements & Relief Screws
3. ☐ Install lead wire seal on all test plugs & leak detectors that were serviced.
   Count LD threads: L1 ____ L2 ____ L3 ____ L4 ____ L5 ____ L6 ____
4. ☑ Check following components operational:
   - ☑ Ball floats, dry breaks & caps
   - ☐ Containment sumps are dry
   - ☑ Dispenser panels are replaced
   - ☐ Leak detectors & vent tubes
   - ☑ Monitoring system is operational
   - ☐ Siphon lines and manifold valves open
   - ☐ STP fittings and bayonet connectors
   - ☑ ATG probes, sensors, & caps
   - ☐ Cathodic protection operational
   - ☑ Dispensers & POS operational
   - ☑ Drop tubes, flapper valves, fill adapters & caps
   - ☑ Manhole covers and sump lids
   - ☑ Shear valves are open
   - ☐ Spill containers & drain valves
   - ☑ Vents & Extractors (not capped, plugged or isolated)
5. ☑ Remove barricades.

SIGN OUT & Operator Verification of Work (OVF)	Lead Technician Name	Lead Technician Signature
General Safety Checks: Work area has been left clean & safe. Site staff aware of work status including any remaining isolation. Changes to equipment are documented and communicated. All incidents, near incidents, and unsafe situations reported.	ANDREW LAWRENCE Site Representative Name	Site Representative Signature

Site Representative Comments:

W.O.# MW1-6197998 Cust Ref#: 6430-5510

Testing and Inspection Certificate

Tanknology Inc.
11000 North MoPac Expressway, Suite 500, Austin, TX 78759
800-800-4633 www.tanknology.com

Test Date	12/7/2023	Tanknology WO#	MW1-6199116
Test Purpose	RE-TEST	Customer PO#	6430-5510

Customer
CIRCLE K
P.O. BOX 347
COLUMBUS, IN 47202

Attn: LIZ WARD
(812) 378-1772

Location
CIRCLE K #42 (4700042)
602 S. INDIANA AVE
SELLERSBURG, IN 47172

Attn: MANAGER
(812) 246-9813

Test / Inspection Description	Item Tested	Date Tested	Result
Leak Detection Monitoring System Inspection	See test report for details	12/7/2023	Pass

Tanknology Representative: Dan Batten
Telephone: (614) 436-7600

Technician: Christopher Franzwa
Technician Certification: (See forms)

MONITORING SYSTEM CERTIFICATION

This form is used to document testing and servicing of tank and piping leak monitoring equipment. If required by applicable law, a copy of the completed form must be provided by the Testing Contractor or owner to the governing UST agency as required by regulation.

A. General Information

Facility Name: CIRCLE K #42 Bldg. No.:

Site Address: 602 S. INDIANA AVE City: SELLERSBURG State: IN Zip: 47172

Facility Contact Person: MANAGER Contact Phone No.: 812-246-9813

Make/Model of Monitoring System: Veeder Root TLS-450 PLUS Date of Testing/Servicing: 12/7/2023

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: T4 KEROSENE - KEROSENE ☑ In-Tank Gauging Probe. Model: 846390-104 ☐ Annular Space or Vault Sensor. Model: ☐ Piping Sump / Trench Sensor(s). Model: ☐ Fill Sump Sensor(s). Model: ☐ Mechanical Line Leak Detector. Model: ☑ Electronic Line Leak Detector. Model: Veeder Root PLLD - ☐ Tank Overfill / High-Level Sensor. Model: ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** ☐ In-Tank Gauging Probe. Model: ☐ Annular Space or Vault Sensor. Model: ☐ Piping Sump / Trench Sensor(s). Model: ☐ Fill Sump Sensor(s). Model: ☐ Mechanical Line Leak Detector. Model: ☐ Electronic Line Leak Detector. Model: ☐ Tank Overfill / High-Level Sensor. Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: ☐ In-Tank Gauging Probe. Model: ☐ Annular Space or Vault Sensor. Model: ☐ Piping Sump / Trench Sensor(s). Model: ☐ Fill Sump Sensor(s). Model: ☐ Mechanical Line Leak Detector. Model: ☐ Electronic Line Leak Detector. Model: ☐ Tank Overfill / High-Level Sensor. Model: ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** ☐ In-Tank Gauging Probe. Model: ☐ Annular Space or Vault Sensor. Model: ☐ Piping Sump / Trench Sensor(s). Model: ☐ Fill Sump Sensor(s). Model: ☐ Mechanical Line Leak Detector. Model: ☐ Electronic Line Leak Detector. Model: ☐ Tank Overfill / High-Level Sensor. Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*: ☐ System set-up ☑ Alarm history report

Technician Name (print): Christopher Franzwa Signature:

Certification No.: C31903 License. No.:

Testing Company Name: Tanknology Phone No.: (800) 800-4633

Testing Company Address: 11000 N. MoPac Expressway Suite 500 Date of Testing/Servicing: 12/7/2023

D. Results of Testing/Servicing

Software Version Installed: _____

Complete the following checklist:

☑ Yes	☐ No* ☐ N/A	Is the **visual** alarm on the console operational?
☑ Yes	☐ No* ☐ N/A	Is the **audible** alarm on the console operational?
☐ Yes	☑ No	Is the external **visual** overfill alarm (light unit) present?
☐ Yes	☐ No* ☑ N/A	Is the external **visual** overfill alarm operating properly?
☐ Yes	☑ No	Is the external **audible** overfill alarm present?
☐ Yes	☐ No* ☑ N/A	Is the external **audible** overfill alarm operating properly?
%	☑ N/A	At what percent of tank(s) capacity is the external alarm programmed to trigger? *If different % between tanks, clarify in section E.*
☐ Yes	☐ No* ☑ N/A	Were all sensors visually inspected, functionally tested, and confirmed operational?
☐ Yes	☐ No* ☑ N/A	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☑ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No
☐ Yes*	☑ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☑ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☑ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☑ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

* In Section E below, describe how and when these deficiencies were or will be corrected.

E. Comments:

Backup Battery reading, if applicable (Required for VR TLS 300/350):

Retest for K1 probe only.

F. In-Tank Gauging / SIR Equipment:

☐ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☑ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☑ Yes	☐ No*	Was accuracy of system product level readings tested?
☑ Yes	☐ No*	Was accuracy of system water level readings tested?
☑ Yes	☐ No*	Were all probes reinstalled properly?
☑ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

* In the Section G, below, describe how and when these deficiencies were or will be corrected.

G. Comments:

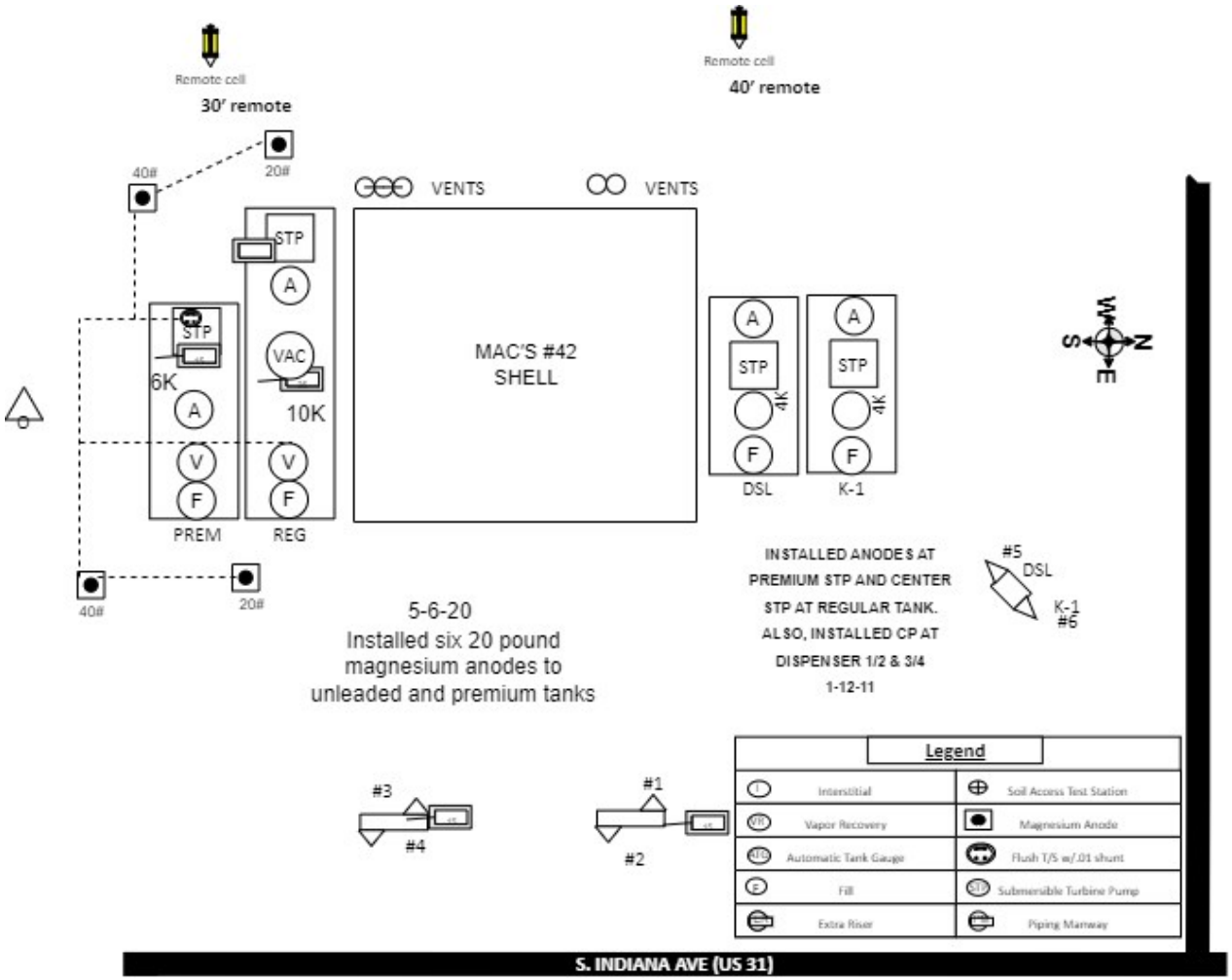
DID OVERALL MONITOR SYSTEM TESTING PASS (Check One)? YES☑ NO ☐ INCONCLUSIVE ☐

Site Diagram

(This site diagram is for reference only and is not drawn to scale)

Work Order:	6199116
Site ID / Name:	4700042 / CIRCLE K #42
Address:	602 S. INDIANA AVE
City:	SELLERSBURG

State: IN Zip: 47172



W.O.# MW1-6199116 Cust Ref#: 6430-5510

Tanknology Inc.
11000 N. MoPac Expressway, Suite 500 Austin, TX 78759 (512) 451-6227

JOB CLEARANCE FORM & SITE SAFETY CHECKLIST – OVF

Policy 100-29-A
Rev: H
Revised: 6/25/2022

Site Name/#:	Street Address:	W.O.#
Circle K #42	602 S. Indiana St Selkersburg IN 47172	6199110

Arrival Time:	Departure Time:	Travel Time:	Others on site:	Date
1146	1210		N/A	12/7/23

Scope of Work and Tasks Performed (JSA's must be available for all tasks):
ATG - K1 Retest

Repairs to Equipment or Parts Provided:

Follow-up actions required; equipment isolated; comments:

PPE - PERSONAL PROTECTIVE EQUIPMENT REQUIRED (Check ✓ items used or mark ~ if not applicable)

- ☑ Safety Vest/Shirt (all jobs)
- ☑ Safety Toe Boots (all jobs)
- ☑ Gloves (all jobs)
- ☑ Safety Glasses (all jobs)
- ☐ Splash Goggles (if needed)
- ☐ Hard Hat (if needed)
- ☐ Hearing Protection (if needed)
- ☐ Other _____

✓ PRE-TEST PROCEDURES (Check ✓ each item completed or mark ~ if not applicable)

1. ☑ Discuss safety procedures with site personnel. Nearest hospital: 911
2. ☑ Get ATG printout & check fuel/water levels. Prior to fuel delivery the system must be placed back into working order.
3. ☑ Barricade work area (cones, flags, bars/tape) and place Fire Extinguishers & "No Smoking" Signs at perimeter.
4. ☐ Confined Space Entry – If required complete separate CSE Checklist. If NO CSE check the following reason:
   ☐No CS's ☐CS's not opened ☐No entry only visual ☐No entry - used tools ☐Work from prone position w/o risk of falling in
5. ☐ Implement Lockout/Tagout per API 1646 (when accessing product piping during tasks)
   - ☐ Secure nozzles with "Out of Service" bags and nylon ties.
   - ☐ Close ball valves or check valves on product piping.
   - ☐ All applicable equipment disabled during test(s).
   - ☐ Secure the circuit breaker(s) with lockout devices and tags.
   - ☐ Disconnect electrical "bayonet" connector from the STP(s).
   - ☐ **Verify LOTO is complete by trying to operate pumps.**

SIGN IN	Lead Technician Name	Lead Technician Signature
General Safety Checks: All site personnel have been informed. Is a fuel delivery due today? _____ LOTO procedures have been discussed. Work areas barricaded to protect workers, staff & public.	Chris Franzen	
	Site Representative Name	Site Representative Signature
	Sha Spencer	Sha Spencer

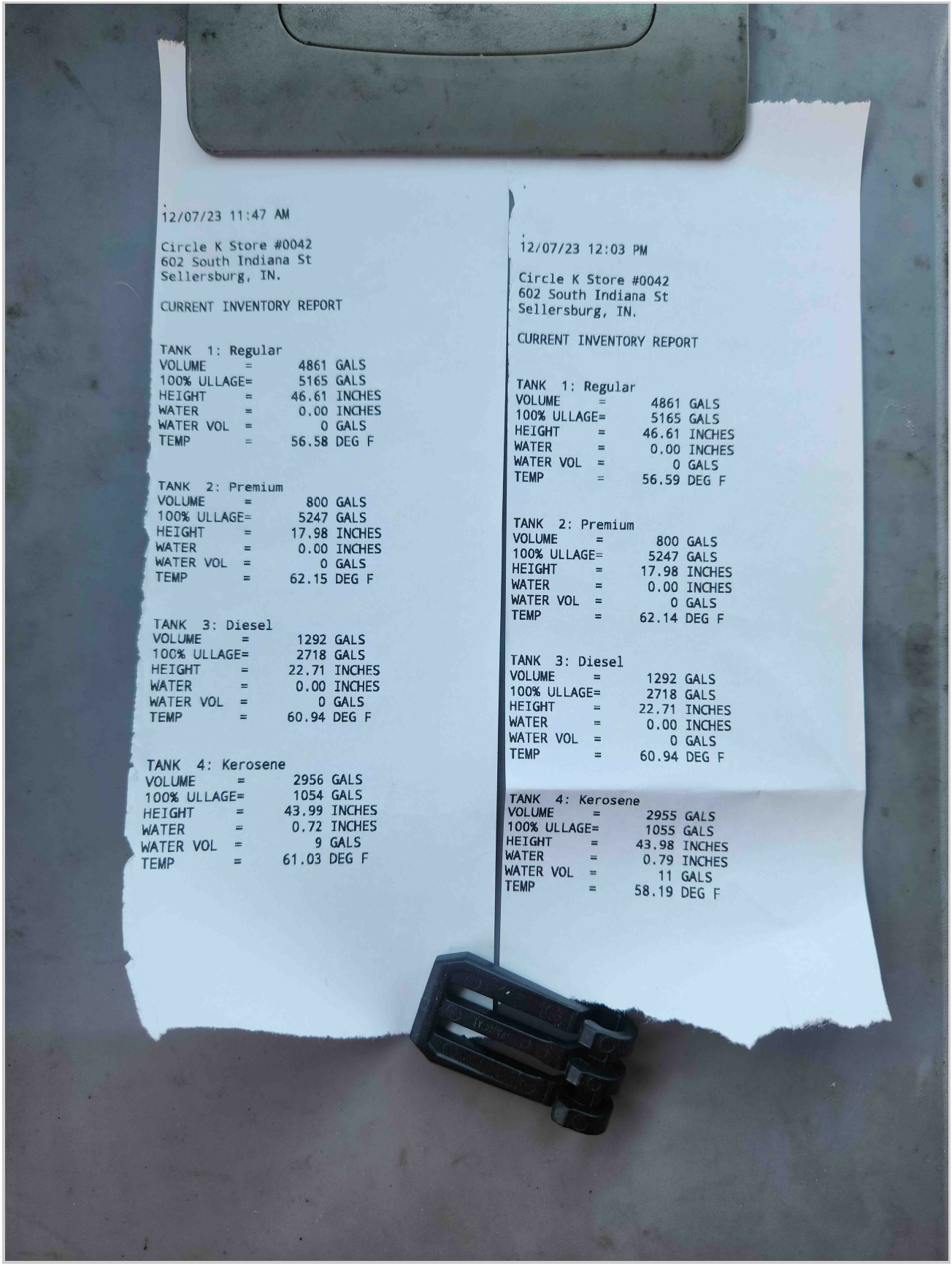
✓ POST-TEST PROCEDURES (Check ✓ each item completed or mark ~ if not applicable)

1. ☐ Remove all "Lockout/Tagout" devices and nozzle bags/ties.
2. ☐ Run all pumps and verify there are no leaks:
   - ☐ Leak Detector & Vent Tubes
   - ☐ Impact Valve Test Ports under dispensers
   - ☐ STP Functional Elements & Relief Screws
3. ☑ Get ATG printout. Confirm water levels same as start or explain difference: _____
4. ☐ Check following components operational:
   - ☑ ATG probes, sensors, & caps
   - ☐ Ball floats, dry breaks & caps
   - ☐ Containment sumps are dry
   - ☐ Manhole covers and sump lids
   - ☐ Spill containers & drain valves
   - ☐ Drop tubes, flapper valves, fill adapters & caps
   - ☐ Shear valves are open
   - ☐ Dispensers & POS operational
   - ☐ Dispenser panels are replaced
   - ☐ Vents & Extractors (not capped, plugged or isolated)
   - ☐ Cathodic protection operational
   - ☐ Siphon lines and manifold valves open
5. ☑ Remove barricades.

SIGN OUT & Operator Verification of Work (OVF)	Lead Technician Name	Lead Technician Signature
General Safety Checks: Work area has been left clean & safe. Site staff aware of work status including any remaining isolation. Changes to equipment are documented and communicated. All incidents, near incidents, and unsafe situations reported.	Chris Franzen	
	Site Representative Name	Site Representative Signature

Site Representative Comments:

OVF



12/07/23 11:47 AM

Circle K Store #0042
602 South Indiana St
Sellersburg, IN.

CURRENT INVENTORY REPORT

TANK 1: Regular
VOLUME = 4861 GALS
100% ULLAGE= 5165 GALS
HEIGHT = 46.61 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 56.58 DEG F

TANK 2: Premium
VOLUME = 800 GALS
100% ULLAGE= 5247 GALS
HEIGHT = 17.98 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 62.15 DEG F

TANK 3: Diesel
VOLUME = 1292 GALS
100% ULLAGE= 2718 GALS
HEIGHT = 22.71 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 60.94 DEG F

TANK 4: Kerosene
VOLUME = 2956 GALS
100% ULLAGE= 1054 GALS
HEIGHT = 43.99 INCHES
WATER = 0.72 INCHES
WATER VOL = 9 GALS
TEMP = 61.03 DEG F

12/07/23 12:03 PM

Circle K Store #0042
602 South Indiana St
Sellersburg, IN.

CURRENT INVENTORY REPORT

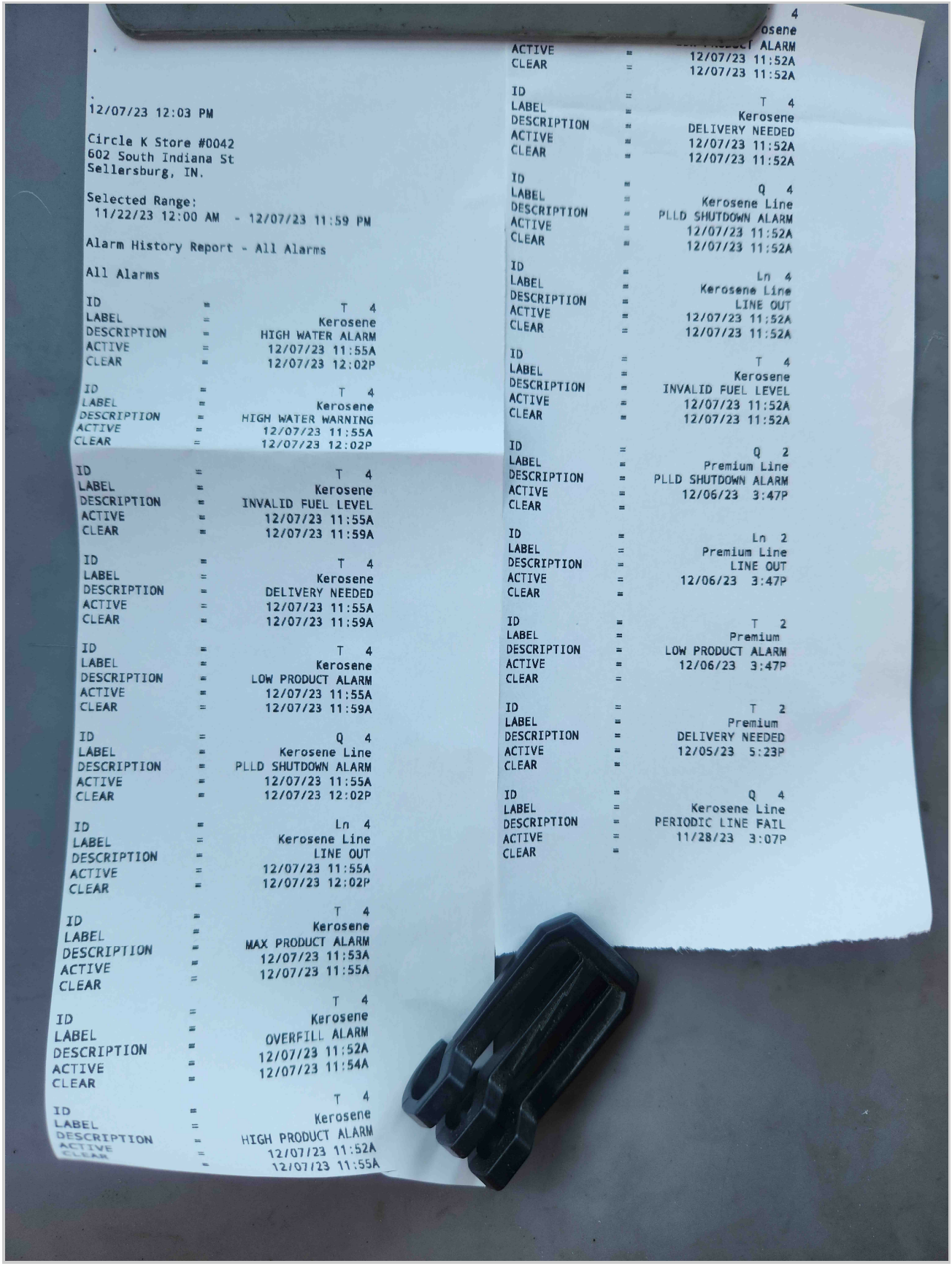
TANK 1: Regular
VOLUME = 4861 GALS
100% ULLAGE= 5165 GALS
HEIGHT = 46.61 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 56.59 DEG F

TANK 2: Premium
VOLUME = 800 GALS
100% ULLAGE= 5247 GALS
HEIGHT = 17.98 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 62.14 DEG F

TANK 3: Diesel
VOLUME = 1292 GALS
100% ULLAGE= 2718 GALS
HEIGHT = 22.71 INCHES
WATER = 0.00 INCHES
WATER VOL = 0 GALS
TEMP = 60.94 DEG F

TANK 4: Kerosene
VOLUME = 2955 GALS
100% ULLAGE= 1055 GALS
HEIGHT = 43.98 INCHES
WATER = 0.79 INCHES
WATER VOL = 11 GALS
TEMP = 58.19 DEG F

ATG



12/07/23 12:03 PM

Circle K Store #0042
602 South Indiana St
Sellersburg, IN.

Selected Range:
11/22/23 12:00 AM - 12/07/23 11:59 PM

Alarm History Report - All Alarms

All Alarms

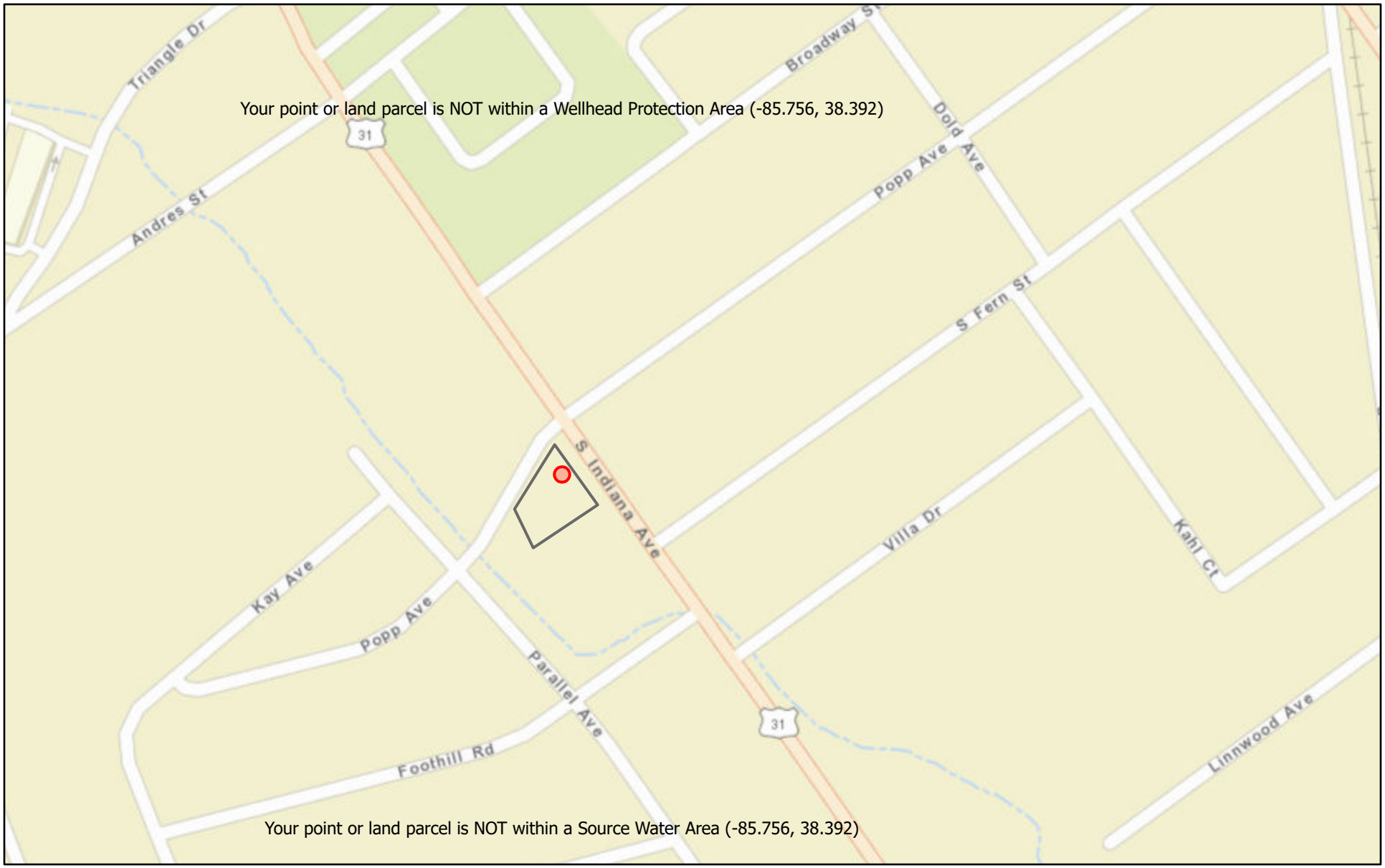
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	HIGH WATER ALARM
ACTIVE	=	12/07/23 11:55A
CLEAR	=	12/07/23 12:02P
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	HIGH WATER WARNING
ACTIVE	=	12/07/23 11:55A
CLEAR	=	12/07/23 12:02P
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	INVALID FUEL LEVEL
ACTIVE	=	12/07/23 11:55A
CLEAR	=	12/07/23 11:59A
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	DELIVERY NEEDED
ACTIVE	=	12/07/23 11:55A
CLEAR	=	12/07/23 11:59A
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	LOW PRODUCT ALARM
ACTIVE	=	12/07/23 11:55A
CLEAR	=	12/07/23 11:59A
ID	=	Q 4
LABEL	=	Kerosene Line
DESCRIPTION	=	PLLD SHUTDOWN ALARM
ACTIVE	=	12/07/23 11:55A
CLEAR	=	12/07/23 12:02P
ID	=	Ln 4
LABEL	=	Kerosene Line
DESCRIPTION	=	LINE OUT
ACTIVE	=	12/07/23 11:55A
CLEAR	=	12/07/23 12:02P
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	MAX PRODUCT ALARM
ACTIVE	=	12/07/23 11:53A
CLEAR	=	12/07/23 11:55A
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	OVERFILL ALARM
ACTIVE	=	12/07/23 11:52A
CLEAR	=	12/07/23 11:54A
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	HIGH PRODUCT ALARM
ACTIVE	=	12/07/23 11:52A
CLEAR	=	12/07/23 11:55A

		4
		osene
		ALARM
ACTIVE	=	12/07/23 11:52A
CLEAR	=	12/07/23 11:52A
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	DELIVERY NEEDED
ACTIVE	=	12/07/23 11:52A
CLEAR	=	12/07/23 11:52A
ID	=	Q 4
LABEL	=	Kerosene Line
DESCRIPTION	=	PLLD SHUTDOWN ALARM
ACTIVE	=	12/07/23 11:52A
CLEAR	=	12/07/23 11:52A
ID	=	Ln 4
LABEL	=	Kerosene Line
DESCRIPTION	=	LINE OUT
ACTIVE	=	12/07/23 11:52A
CLEAR	=	12/07/23 11:52A
ID	=	T 4
LABEL	=	Kerosene
DESCRIPTION	=	INVALID FUEL LEVEL
ACTIVE	=	12/07/23 11:52A
CLEAR	=	12/07/23 11:52A
ID	=	Q 2
LABEL	=	Premium Line
DESCRIPTION	=	PLLD SHUTDOWN ALARM
ACTIVE	=	12/06/23 3:47P
CLEAR	=	
ID	=	Ln 2
LABEL	=	Premium Line
DESCRIPTION	=	LINE OUT
ACTIVE	=	12/06/23 3:47P
CLEAR	=	
ID	=	T 2
LABEL	=	Premium
DESCRIPTION	=	LOW PRODUCT ALARM
ACTIVE	=	12/06/23 3:47P
CLEAR	=	
ID	=	T 2
LABEL	=	Premium
DESCRIPTION	=	DELIVERY NEEDED
ACTIVE	=	12/05/23 5:23P
CLEAR	=	
ID	=	Q 4
LABEL	=	Kerosene Line
DESCRIPTION	=	PERIODIC LINE FAIL
ACTIVE	=	11/28/23 3:07P
CLEAR	=	

APPENDIX D

Wellhead Protection Area Determination Map

IDEM Source Water Proximity



June 12, 2024

1:4,514

0 0.03 0.06 0.12 mi

0 0.05 0.1 0.19 km

Esri, HERE, Garmin, INCREMENT P, NGA, USGS

APPENDIX E

Laboratory Analytical Reports

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 18, 2024

Mr. Jim Madding
American Environmental
8500 Georgetown Rd
Indianapolis, IN 46268

RE: Project: CK #42
Pace Project No.: 50374807

Dear Mr. Madding:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2024. 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,

Heather Patterson
heather.patterson@pacelabs.com
(317)228-3146
Project Manager

Enclosures

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: CK #42
Pace Project No.: 50374807

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
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: CK #42
Pace Project No.: 50374807

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50374807001	**MW1 (6-8)**	Solid	06/03/24 11:45	06/03/24 15:00
50374807002	**MW1 (8-10)**	Solid	06/03/24 11:45	06/03/24 15:00
50374807003	**MW2 (0-2)**	Solid	06/03/24 12:45	06/03/24 15:00
50374807004	**MW2 (8-10)**	Solid	06/03/24 12:45	06/03/24 15:00
50374807005	**DUP**	Solid	06/03/24 08:00	06/03/24 15:00
50374807006	**Trip Blank**	Water	06/03/24 07:00	06/03/24 15:00

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: CK #42
Pace Project No.: 50374807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50374807001	**MW1 (6-8)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50374807002	**MW1 (8-10)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50374807003	**MW2 (0-2)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50374807004	**MW2 (8-10)**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	TMW	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50374807005	**DUP**	EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50374807006	**Trip Blank**	EPA 8260	BES	72	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: CK #42
Pace Project No.: 50374807

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50374807001	**MW1 (6-8)**					
EPA 8270 by SIM	Acenaphthene	7.1	ug/kg	6.1	06/17/24 12:31	
EPA 8270 by SIM	Anthracene	12.6	ug/kg	6.1	06/17/24 12:31	
EPA 8270 by SIM	Fluorene	10.5	ug/kg	6.1	06/17/24 12:31	
EPA 8270 by SIM	1-Methylnaphthalene	362	ug/kg	6.1	06/17/24 12:31	
EPA 8270 by SIM	2-Methylnaphthalene	611	ug/kg	6.1	06/17/24 12:31	
EPA 8270 by SIM	Phenanthrene	12.1	ug/kg	6.1	06/17/24 12:31	
EPA 8260	n-Hexane	13800	ug/kg	2060	06/12/24 21:58	
EPA 8260	Isopropylbenzene (Cumene)	2310	ug/kg	2060	06/12/24 21:58	
SM 2540G	Percent Moisture	20.2	%	0.10	06/17/24 13:16	N2
50374807002	**MW1 (8-10)**					
EPA 8270 by SIM	Acenaphthene	8.1	ug/kg	6.4	06/17/24 12:46	
EPA 8270 by SIM	Chrysene	11.0	ug/kg	6.4	06/17/24 12:46	
EPA 8270 by SIM	Fluorene	15.3	ug/kg	6.4	06/17/24 12:46	
EPA 8270 by SIM	1-Methylnaphthalene	701	ug/kg	6.4	06/17/24 12:46	
EPA 8270 by SIM	2-Methylnaphthalene	1500	ug/kg	6.4	06/17/24 12:46	
EPA 8270 by SIM	Naphthalene	2320	ug/kg	6.4	06/17/24 12:46	
EPA 8270 by SIM	Phenanthrene	49.1	ug/kg	6.4	06/17/24 12:46	
EPA 8260	Ethylbenzene	9750	ug/kg	1990	06/12/24 22:28	
EPA 8260	n-Hexane	24900	ug/kg	1990	06/12/24 22:28	
EPA 8260	Isopropylbenzene (Cumene)	2680	ug/kg	1990	06/12/24 22:28	
EPA 8260	Naphthalene	4160	ug/kg	1990	06/12/24 22:28	
EPA 8260	n-Propylbenzene	3310	ug/kg	1990	06/12/24 22:28	
EPA 8260	1,2,4-Trimethylbenzene	4520	ug/kg	1990	06/12/24 22:28	
SM 2540G	Percent Moisture	25.0	%	0.10	06/17/24 13:16	N2
50374807003	**MW2 (0-2)**					
EPA 8270 by SIM	Chrysene	7.1	ug/kg	5.1	06/17/24 13:00	
EPA 8270 by SIM	Phenanthrene	7.4	ug/kg	5.1	06/17/24 13:00	
EPA 8270 by SIM	Pyrene	5.6	ug/kg	5.1	06/17/24 13:00	
SM 2540G	Percent Moisture	6.9	%	0.10	06/17/24 13:16	N2
50374807004	**MW2 (8-10)**					
EPA 8270 by SIM	Acenaphthene	63.7	ug/kg	25.7	06/17/24 13:14	
EPA 8270 by SIM	Acenaphthylene	27.6	ug/kg	25.7	06/17/24 13:14	
EPA 8270 by SIM	Chrysene	121	ug/kg	25.7	06/17/24 13:14	
EPA 8270 by SIM	1-Methylnaphthalene	723	ug/kg	25.7	06/17/24 13:14	
EPA 8270 by SIM	2-Methylnaphthalene	929	ug/kg	25.7	06/17/24 13:14	
EPA 8270 by SIM	Naphthalene	359	ug/kg	25.7	06/17/24 13:14	ED
EPA 8270 by SIM	Phenanthrene	431	ug/kg	25.7	06/17/24 13:14	
EPA 8270 by SIM	Pyrene	39.4	ug/kg	25.7	06/17/24 13:14	
SM 2540G	Percent Moisture	7.6	%	0.10	06/17/24 13:16	N2
50374807005	**DUP**					
EPA 8270 by SIM	Benzo(a)anthracene	38.7	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Benzo(a)pyrene	53.4	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Benzo(b)fluoranthene	76.0	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Benzo(g,h,i)perylene	40.4	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Benzo(k)fluoranthene	25.3	ug/kg	6.2	06/17/24 15:36	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: CK #42
Pace Project No.: 50374807

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50374807005	**DUP**					
EPA 8270 by SIM	Chrysene	49.8	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Dibenz(a,h)anthracene	9.9	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Fluoranthene	90.1	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	36.6	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	1-Methylnaphthalene	8.9	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	2-Methylnaphthalene	10.4	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Phenanthrene	21.3	ug/kg	6.2	06/17/24 15:36	
EPA 8270 by SIM	Pyrene	76.4	ug/kg	6.2	06/17/24 15:36	
EPA 8260	Benzene	5.3	ug/kg	3.7	06/17/24 11:15	
EPA 8260	sec-Butylbenzene	9.4	ug/kg	3.7	06/17/24 11:15	
EPA 8260	n-Hexane	8.3	ug/kg	3.7	06/17/24 11:15	
EPA 8260	Isopropylbenzene (Cumene)	8.0	ug/kg	3.7	06/17/24 11:15	
EPA 8260	p-Isopropyltoluene	3.9	ug/kg	3.7	06/17/24 11:15	
EPA 8260	n-Propylbenzene	4.3	ug/kg	3.7	06/17/24 11:15	
SM 2540G	Percent Moisture	19.4	%	0.10	06/17/24 13:16	N2

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW1 (6-8) **Lab ID: 50374807001** Collected: 06/03/24 11:45 Received: 06/03/24 15:00 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
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	**7.1**	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	83-32-9	
Acenaphthylene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	208-96-8	
Anthracene	**12.6**	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	207-08-9	
Chrysene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	53-70-3	
Fluoranthene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	206-44-0	
Fluorene	**10.5**	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	193-39-5	
1-Methylnaphthalene	**362**	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	90-12-0	
2-Methylnaphthalene	**611**	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	91-57-6	
Naphthalene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	91-20-3	
Phenanthrene	**12.1**	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	85-01-8	
Pyrene	ND	ug/kg	6.1	1	06/14/24 11:34	06/17/24 12:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	16-93	1	06/14/24 11:34	06/17/24 12:31	321-60-8	
p-Terphenyl-d14 (S)	74	%.	19-115	1	06/14/24 11:34	06/17/24 12:31	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	41200	500		06/12/24 21:58	67-64-1	
Acrolein	ND	ug/kg	41200	500		06/12/24 21:58	107-02-8	
Acrylonitrile	ND	ug/kg	41200	500		06/12/24 21:58	107-13-1	
Benzene	ND	ug/kg	2060	500		06/12/24 21:58	71-43-2	
Bromobenzene	ND	ug/kg	2060	500		06/12/24 21:58	108-86-1	
Bromochloromethane	ND	ug/kg	2060	500		06/12/24 21:58	74-97-5	
Bromodichloromethane	ND	ug/kg	2060	500		06/12/24 21:58	75-27-4	
Bromoform	ND	ug/kg	2060	500		06/12/24 21:58	75-25-2	
Bromomethane	ND	ug/kg	2060	500		06/12/24 21:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10300	500		06/12/24 21:58	78-93-3	
n-Butylbenzene	ND	ug/kg	2060	500		06/12/24 21:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	2060	500		06/12/24 21:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	2060	500		06/12/24 21:58	98-06-6	
Carbon disulfide	ND	ug/kg	4120	500		06/12/24 21:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	2060	500		06/12/24 21:58	56-23-5	
Chlorobenzene	ND	ug/kg	2060	500		06/12/24 21:58	108-90-7	
Chloroethane	ND	ug/kg	2060	500		06/12/24 21:58	75-00-3	
Chloroform	ND	ug/kg	2060	500		06/12/24 21:58	67-66-3	
Chloromethane	ND	ug/kg	2060	500		06/12/24 21:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	2060	500		06/12/24 21:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	2060	500		06/12/24 21:58	106-43-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW1 (6-8) **Lab ID: 50374807001** Collected: 06/03/24 11:45 Received: 06/03/24 15:00 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							
Dibromochloromethane	ND	ug/kg	2060	500		06/12/24 21:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2060	500		06/12/24 21:58	106-93-4	
Dibromomethane	ND	ug/kg	2060	500		06/12/24 21:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2060	500		06/12/24 21:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2060	500		06/12/24 21:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2060	500		06/12/24 21:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	41200	500		06/12/24 21:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	2060	500		06/12/24 21:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2060	500		06/12/24 21:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2060	500		06/12/24 21:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	2060	500		06/12/24 21:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2060	500		06/12/24 21:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2060	500		06/12/24 21:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2060	500		06/12/24 21:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2060	500		06/12/24 21:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2060	500		06/12/24 21:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2060	500		06/12/24 21:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2060	500		06/12/24 21:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	2060	500		06/12/24 21:58	10061-02-6	
Ethylbenzene	ND	ug/kg	2060	500		06/12/24 21:58	100-41-4	
Ethyl methacrylate	ND	ug/kg	41200	500		06/12/24 21:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	2060	500		06/12/24 21:58	87-68-3	
n-Hexane	**13800**	ug/kg	2060	500		06/12/24 21:58	110-54-3	
2-Hexanone	ND	ug/kg	41200	500		06/12/24 21:58	591-78-6	
Iodomethane	ND	ug/kg	41200	500		06/12/24 21:58	74-88-4	
Isopropylbenzene (Cumene)	**2310**	ug/kg	2060	500		06/12/24 21:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	2060	500		06/12/24 21:58	99-87-6	
Methylene Chloride	ND	ug/kg	8250	500		06/12/24 21:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10300	500		06/12/24 21:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	2060	500		06/12/24 21:58	1634-04-4	
Naphthalene	ND	ug/kg	2060	500		06/12/24 21:58	91-20-3	
n-Propylbenzene	ND	ug/kg	2060	500		06/12/24 21:58	103-65-1	
Styrene	ND	ug/kg	2060	500		06/12/24 21:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	2060	500		06/12/24 21:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2060	500		06/12/24 21:58	79-34-5	
Tetrachloroethene	ND	ug/kg	2060	500		06/12/24 21:58	127-18-4	
Toluene	ND	ug/kg	2060	500		06/12/24 21:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	2060	500		06/12/24 21:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	2060	500		06/12/24 21:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	2060	500		06/12/24 21:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	2060	500		06/12/24 21:58	79-00-5	
Trichloroethene	ND	ug/kg	2060	500		06/12/24 21:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	2060	500		06/12/24 21:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	2060	500		06/12/24 21:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	2060	500		06/12/24 21:58	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW1 (6-8) **Lab ID: 50374807001** Collected: 06/03/24 11:45 Received: 06/03/24 15:00 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							
1,3,5-Trimethylbenzene	ND	ug/kg	2060	500		06/12/24 21:58	108-67-8	
Vinyl acetate	ND	ug/kg	41200	500		06/12/24 21:58	108-05-4	
Vinyl chloride	ND	ug/kg	2060	500		06/12/24 21:58	75-01-4	
Xylene (Total)	ND	ug/kg	4120	500		06/12/24 21:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	75-135	500		06/12/24 21:58	1868-53-7	
Toluene-d8 (S)	105	%.	65-148	500		06/12/24 21:58	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	63-132	500		06/12/24 21:58	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**20.2**	%	0.10	1		06/17/24 13:16		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW1 (8-10) **Lab ID: 50374807002** Collected: 06/03/24 11:45 Received: 06/03/24 15:00 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
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	**8.1**	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	83-32-9	
Acenaphthylene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	208-96-8	
Anthracene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	207-08-9	
Chrysene	**11.0**	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	53-70-3	
Fluoranthene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	206-44-0	
Fluorene	**15.3**	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	193-39-5	
1-Methylnaphthalene	**701**	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	90-12-0	
2-Methylnaphthalene	**1500**	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	91-57-6	
Naphthalene	**2320**	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	91-20-3	
Phenanthrene	**49.1**	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	85-01-8	
Pyrene	ND	ug/kg	6.4	1	06/14/24 11:34	06/17/24 12:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	16-93	1	06/14/24 11:34	06/17/24 12:46	321-60-8	
p-Terphenyl-d14 (S)	67	%.	19-115	1	06/14/24 11:34	06/17/24 12:46	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	39700	500		06/12/24 22:28	67-64-1	
Acrolein	ND	ug/kg	39700	500		06/12/24 22:28	107-02-8	
Acrylonitrile	ND	ug/kg	39700	500		06/12/24 22:28	107-13-1	
Benzene	ND	ug/kg	1990	500		06/12/24 22:28	71-43-2	
Bromobenzene	ND	ug/kg	1990	500		06/12/24 22:28	108-86-1	
Bromochloromethane	ND	ug/kg	1990	500		06/12/24 22:28	74-97-5	
Bromodichloromethane	ND	ug/kg	1990	500		06/12/24 22:28	75-27-4	
Bromoform	ND	ug/kg	1990	500		06/12/24 22:28	75-25-2	
Bromomethane	ND	ug/kg	1990	500		06/12/24 22:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9930	500		06/12/24 22:28	78-93-3	
n-Butylbenzene	ND	ug/kg	1990	500		06/12/24 22:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	1990	500		06/12/24 22:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	1990	500		06/12/24 22:28	98-06-6	
Carbon disulfide	ND	ug/kg	3970	500		06/12/24 22:28	75-15-0	
Carbon tetrachloride	ND	ug/kg	1990	500		06/12/24 22:28	56-23-5	
Chlorobenzene	ND	ug/kg	1990	500		06/12/24 22:28	108-90-7	
Chloroethane	ND	ug/kg	1990	500		06/12/24 22:28	75-00-3	
Chloroform	ND	ug/kg	1990	500		06/12/24 22:28	67-66-3	
Chloromethane	ND	ug/kg	1990	500		06/12/24 22:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	1990	500		06/12/24 22:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	1990	500		06/12/24 22:28	106-43-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW1 (8-10) **Lab ID: 50374807002** Collected: 06/03/24 11:45 Received: 06/03/24 15:00 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							
Dibromochloromethane	ND	ug/kg	1990	500		06/12/24 22:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	1990	500		06/12/24 22:28	106-93-4	
Dibromomethane	ND	ug/kg	1990	500		06/12/24 22:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	1990	500		06/12/24 22:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	1990	500		06/12/24 22:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	1990	500		06/12/24 22:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	39700	500		06/12/24 22:28	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	1990	500		06/12/24 22:28	75-71-8	
1,1-Dichloroethane	ND	ug/kg	1990	500		06/12/24 22:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	1990	500		06/12/24 22:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	1990	500		06/12/24 22:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	1990	500		06/12/24 22:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	1990	500		06/12/24 22:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	1990	500		06/12/24 22:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	1990	500		06/12/24 22:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	1990	500		06/12/24 22:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	1990	500		06/12/24 22:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	1990	500		06/12/24 22:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	1990	500		06/12/24 22:28	10061-02-6	
Ethylbenzene	**9750**	ug/kg	1990	500		06/12/24 22:28	100-41-4	
Ethyl methacrylate	ND	ug/kg	39700	500		06/12/24 22:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	1990	500		06/12/24 22:28	87-68-3	
n-Hexane	**24900**	ug/kg	1990	500		06/12/24 22:28	110-54-3	
2-Hexanone	ND	ug/kg	39700	500		06/12/24 22:28	591-78-6	
Iodomethane	ND	ug/kg	39700	500		06/12/24 22:28	74-88-4	
Isopropylbenzene (Cumene)	**2680**	ug/kg	1990	500		06/12/24 22:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	1990	500		06/12/24 22:28	99-87-6	
Methylene Chloride	ND	ug/kg	7940	500		06/12/24 22:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9930	500		06/12/24 22:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	1990	500		06/12/24 22:28	1634-04-4	
Naphthalene	**4160**	ug/kg	1990	500		06/12/24 22:28	91-20-3	
n-Propylbenzene	**3310**	ug/kg	1990	500		06/12/24 22:28	103-65-1	
Styrene	ND	ug/kg	1990	500		06/12/24 22:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	1990	500		06/12/24 22:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	1990	500		06/12/24 22:28	79-34-5	
Tetrachloroethene	ND	ug/kg	1990	500		06/12/24 22:28	127-18-4	
Toluene	ND	ug/kg	1990	500		06/12/24 22:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	1990	500		06/12/24 22:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	1990	500		06/12/24 22:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	1990	500		06/12/24 22:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	1990	500		06/12/24 22:28	79-00-5	
Trichloroethene	ND	ug/kg	1990	500		06/12/24 22:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	1990	500		06/12/24 22:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	1990	500		06/12/24 22:28	96-18-4	
1,2,4-Trimethylbenzene	**4520**	ug/kg	1990	500		06/12/24 22:28	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW1 (8-10) **Lab ID: 50374807002** Collected: 06/03/24 11:45 Received: 06/03/24 15:00 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							
1,3,5-Trimethylbenzene	ND	ug/kg	1990	500		06/12/24 22:28	108-67-8	
Vinyl acetate	ND	ug/kg	39700	500		06/12/24 22:28	108-05-4	
Vinyl chloride	ND	ug/kg	1990	500		06/12/24 22:28	75-01-4	
Xylene (Total)	ND	ug/kg	3970	500		06/12/24 22:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	75-135	500		06/12/24 22:28	1868-53-7	
Toluene-d8 (S)	101	%.	65-148	500		06/12/24 22:28	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	63-132	500		06/12/24 22:28	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**25.0**	%	0.10	1		06/17/24 13:16		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW2 (0-2) **Lab ID: 50374807003** Collected: 06/03/24 12:45 Received: 06/03/24 15:00 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
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	83-32-9	
Acenaphthylene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	208-96-8	
Anthracene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	207-08-9	
Chrysene	**7.1**	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	53-70-3	
Fluoranthene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	206-44-0	
Fluorene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	91-57-6	
Naphthalene	ND	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	91-20-3	
Phenanthrene	**7.4**	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	85-01-8	
Pyrene	**5.6**	ug/kg	5.1	1	06/14/24 11:34	06/17/24 13:00	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	69	%.	16-93	1	06/14/24 11:34	06/17/24 13:00	321-60-8	
p-Terphenyl-d14 (S)	79	%.	19-115	1	06/14/24 11:34	06/17/24 13:00	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	79.9	1		06/12/24 22:59	67-64-1	
Acrolein	ND	ug/kg	79.9	1		06/12/24 22:59	107-02-8	
Acrylonitrile	ND	ug/kg	79.9	1		06/12/24 22:59	107-13-1	
Benzene	ND	ug/kg	4.0	1		06/12/24 22:59	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		06/12/24 22:59	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		06/12/24 22:59	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		06/12/24 22:59	75-27-4	
Bromoform	ND	ug/kg	4.0	1		06/12/24 22:59	75-25-2	
Bromomethane	ND	ug/kg	4.0	1		06/12/24 22:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.0	1		06/12/24 22:59	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		06/12/24 22:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		06/12/24 22:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		06/12/24 22:59	98-06-6	
Carbon disulfide	ND	ug/kg	8.0	1		06/12/24 22:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	1		06/12/24 22:59	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		06/12/24 22:59	108-90-7	
Chloroethane	ND	ug/kg	4.0	1		06/12/24 22:59	75-00-3	
Chloroform	ND	ug/kg	4.0	1		06/12/24 22:59	67-66-3	
Chloromethane	ND	ug/kg	4.0	1		06/12/24 22:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		06/12/24 22:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		06/12/24 22:59	106-43-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW2 (0-2) **Lab ID: 50374807003** Collected: 06/03/24 12:45 Received: 06/03/24 15:00 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							
Dibromochloromethane	ND	ug/kg	4.0	1		06/12/24 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		06/12/24 22:59	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		06/12/24 22:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		06/12/24 22:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		06/12/24 22:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		06/12/24 22:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	79.9	1		06/12/24 22:59	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.0	1		06/12/24 22:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		06/12/24 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		06/12/24 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		06/12/24 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		06/12/24 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		06/12/24 22:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		06/12/24 22:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		06/12/24 22:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		06/12/24 22:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		06/12/24 22:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		06/12/24 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		06/12/24 22:59	10061-02-6	
Ethylbenzene	ND	ug/kg	4.0	1		06/12/24 22:59	100-41-4	
Ethyl methacrylate	ND	ug/kg	79.9	1		06/12/24 22:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		06/12/24 22:59	87-68-3	
n-Hexane	ND	ug/kg	4.0	1		06/12/24 22:59	110-54-3	
2-Hexanone	ND	ug/kg	79.9	1		06/12/24 22:59	591-78-6	
Iodomethane	ND	ug/kg	79.9	1		06/12/24 22:59	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		06/12/24 22:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		06/12/24 22:59	99-87-6	
Methylene Chloride	ND	ug/kg	16.0	1		06/12/24 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.0	1		06/12/24 22:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		06/12/24 22:59	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		06/12/24 22:59	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		06/12/24 22:59	103-65-1	
Styrene	ND	ug/kg	4.0	1		06/12/24 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		06/12/24 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		06/12/24 22:59	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		06/12/24 22:59	127-18-4	
Toluene	ND	ug/kg	4.0	1		06/12/24 22:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		06/12/24 22:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		06/12/24 22:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		06/12/24 22:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		06/12/24 22:59	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		06/12/24 22:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		06/12/24 22:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		06/12/24 22:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		06/12/24 22:59	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW2 (0-2) **Lab ID: 50374807003** Collected: 06/03/24 12:45 Received: 06/03/24 15:00 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							
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		06/12/24 22:59	108-67-8	
Vinyl acetate	ND	ug/kg	79.9	1		06/12/24 22:59	108-05-4	
Vinyl chloride	ND	ug/kg	4.0	1		06/12/24 22:59	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		06/12/24 22:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	75-135	1		06/12/24 22:59	1868-53-7	
Toluene-d8 (S)	99	%.	65-148	1		06/12/24 22:59	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	63-132	1		06/12/24 22:59	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**6.9**	%	0.10	1		06/17/24 13:16		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW2 (8-10) **Lab ID: 50374807004** Collected: 06/03/24 12:45 Received: 06/03/24 15:00 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
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	**63.7**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	83-32-9	
Acenaphthylene	**27.6**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	208-96-8	
Anthracene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	207-08-9	
Chrysene	**121**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	53-70-3	
Fluoranthene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	206-44-0	
Fluorene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	193-39-5	
1-Methylnaphthalene	**723**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	90-12-0	
2-Methylnaphthalene	**929**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	91-57-6	
Naphthalene	**359**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	91-20-3	ED
Phenanthrene	**431**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	85-01-8	
Pyrene	**39.4**	ug/kg	25.7	5	06/14/24 11:34	06/17/24 13:14	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	16-93	5	06/14/24 11:34	06/17/24 13:14	321-60-8	
p-Terphenyl-d14 (S)	75	%.	19-115	5	06/14/24 11:34	06/17/24 13:14	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	159	1		06/12/24 23:29	67-64-1	
Acrolein	ND	ug/kg	159	1		06/12/24 23:29	107-02-8	
Acrylonitrile	ND	ug/kg	159	1		06/12/24 23:29	107-13-1	
Benzene	ND	ug/kg	8.0	1		06/12/24 23:29	71-43-2	
Bromobenzene	ND	ug/kg	8.0	1		06/12/24 23:29	108-86-1	
Bromochloromethane	ND	ug/kg	8.0	1		06/12/24 23:29	74-97-5	
Bromodichloromethane	ND	ug/kg	8.0	1		06/12/24 23:29	75-27-4	
Bromoform	ND	ug/kg	8.0	1		06/12/24 23:29	75-25-2	
Bromomethane	ND	ug/kg	8.0	1		06/12/24 23:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	39.8	1		06/12/24 23:29	78-93-3	
n-Butylbenzene	ND	ug/kg	8.0	1		06/12/24 23:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	8.0	1		06/12/24 23:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	8.0	1		06/12/24 23:29	98-06-6	
Carbon disulfide	ND	ug/kg	15.9	1		06/12/24 23:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	8.0	1		06/12/24 23:29	56-23-5	
Chlorobenzene	ND	ug/kg	8.0	1		06/12/24 23:29	108-90-7	
Chloroethane	ND	ug/kg	8.0	1		06/12/24 23:29	75-00-3	
Chloroform	ND	ug/kg	8.0	1		06/12/24 23:29	67-66-3	
Chloromethane	ND	ug/kg	8.0	1		06/12/24 23:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	8.0	1		06/12/24 23:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	8.0	1		06/12/24 23:29	106-43-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW2 (8-10) **Lab ID: 50374807004** Collected: 06/03/24 12:45 Received: 06/03/24 15:00 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							
Dibromochloromethane	ND	ug/kg	8.0	1		06/12/24 23:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	8.0	1		06/12/24 23:29	106-93-4	
Dibromomethane	ND	ug/kg	8.0	1		06/12/24 23:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	8.0	1		06/12/24 23:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	8.0	1		06/12/24 23:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	8.0	1		06/12/24 23:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	159	1		06/12/24 23:29	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	8.0	1		06/12/24 23:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	8.0	1		06/12/24 23:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	8.0	1		06/12/24 23:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	8.0	1		06/12/24 23:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	8.0	1		06/12/24 23:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	8.0	1		06/12/24 23:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	8.0	1		06/12/24 23:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	8.0	1		06/12/24 23:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	8.0	1		06/12/24 23:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	8.0	1		06/12/24 23:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	8.0	1		06/12/24 23:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	8.0	1		06/12/24 23:29	10061-02-6	
Ethylbenzene	ND	ug/kg	8.0	1		06/12/24 23:29	100-41-4	
Ethyl methacrylate	ND	ug/kg	159	1		06/12/24 23:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	8.0	1		06/12/24 23:29	87-68-3	
n-Hexane	ND	ug/kg	8.0	1		06/12/24 23:29	110-54-3	
2-Hexanone	ND	ug/kg	159	1		06/12/24 23:29	591-78-6	
Iodomethane	ND	ug/kg	159	1		06/12/24 23:29	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	8.0	1		06/12/24 23:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	8.0	1		06/12/24 23:29	99-87-6	
Methylene Chloride	ND	ug/kg	31.8	1		06/12/24 23:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	39.8	1		06/12/24 23:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	8.0	1		06/12/24 23:29	1634-04-4	
Naphthalene	ND	ug/kg	8.0	1		06/12/24 23:29	91-20-3	
n-Propylbenzene	ND	ug/kg	8.0	1		06/12/24 23:29	103-65-1	
Styrene	ND	ug/kg	8.0	1		06/12/24 23:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	8.0	1		06/12/24 23:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	8.0	1		06/12/24 23:29	79-34-5	
Tetrachloroethene	ND	ug/kg	8.0	1		06/12/24 23:29	127-18-4	
Toluene	ND	ug/kg	8.0	1		06/12/24 23:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	8.0	1		06/12/24 23:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	8.0	1		06/12/24 23:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	8.0	1		06/12/24 23:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	8.0	1		06/12/24 23:29	79-00-5	
Trichloroethene	ND	ug/kg	8.0	1		06/12/24 23:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	8.0	1		06/12/24 23:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	8.0	1		06/12/24 23:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	8.0	1		06/12/24 23:29	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: MW2 (8-10) **Lab ID: 50374807004** Collected: 06/03/24 12:45 Received: 06/03/24 15:00 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							
1,3,5-Trimethylbenzene	ND	ug/kg	8.0	1		06/12/24 23:29	108-67-8	
Vinyl acetate	ND	ug/kg	159	1		06/12/24 23:29	108-05-4	
Vinyl chloride	ND	ug/kg	8.0	1		06/12/24 23:29	75-01-4	
Xylene (Total)	ND	ug/kg	15.9	1		06/12/24 23:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	75-135	1		06/12/24 23:29	1868-53-7	
Toluene-d8 (S)	105	%.	65-148	1		06/12/24 23:29	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	63-132	1		06/12/24 23:29	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**7.6**	%	0.10	1		06/17/24 13:16		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: DUP **Lab ID: 50374807005** Collected: 06/03/24 08:00 Received: 06/03/24 15:00 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
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	83-32-9	
Acenaphthylene	ND	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	208-96-8	
Anthracene	ND	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	120-12-7	
Benzo(a)anthracene	**38.7**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	56-55-3	
Benzo(a)pyrene	**53.4**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	50-32-8	
Benzo(b)fluoranthene	**76.0**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	205-99-2	
Benzo(g,h,i)perylene	**40.4**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	191-24-2	
Benzo(k)fluoranthene	**25.3**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	207-08-9	
Chrysene	**49.8**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	218-01-9	
Dibenz(a,h)anthracene	**9.9**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	53-70-3	
Fluoranthene	**90.1**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	206-44-0	
Fluorene	ND	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**36.6**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	193-39-5	
1-Methylnaphthalene	**8.9**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	90-12-0	
2-Methylnaphthalene	**10.4**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	91-57-6	
Naphthalene	ND	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	91-20-3	
Phenanthrene	**21.3**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	85-01-8	
Pyrene	**76.4**	ug/kg	6.2	1	06/14/24 15:10	06/17/24 15:36	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	16-93	1	06/14/24 15:10	06/17/24 15:36	321-60-8	
p-Terphenyl-d14 (S)	64	%.	19-115	1	06/14/24 15:10	06/17/24 15:36	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	73.9	1		06/17/24 11:15	67-64-1	
Acrolein	ND	ug/kg	73.9	1		06/17/24 11:15	107-02-8	
Acrylonitrile	ND	ug/kg	73.9	1		06/17/24 11:15	107-13-1	
Benzene	**5.3**	ug/kg	3.7	1		06/17/24 11:15	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		06/17/24 11:15	108-86-1	L1
Bromochloromethane	ND	ug/kg	3.7	1		06/17/24 11:15	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		06/17/24 11:15	75-27-4	
Bromoform	ND	ug/kg	3.7	1		06/17/24 11:15	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		06/17/24 11:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.5	1		06/17/24 11:15	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		06/17/24 11:15	104-51-8	
sec-Butylbenzene	**9.4**	ug/kg	3.7	1		06/17/24 11:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		06/17/24 11:15	98-06-6	
Carbon disulfide	ND	ug/kg	7.4	1		06/17/24 11:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		06/17/24 11:15	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		06/17/24 11:15	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		06/17/24 11:15	75-00-3	
Chloroform	ND	ug/kg	3.7	1		06/17/24 11:15	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		06/17/24 11:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		06/17/24 11:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		06/17/24 11:15	106-43-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: DUP **Lab ID: 50374807005** Collected: 06/03/24 08:00 Received: 06/03/24 15:00 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							
Dibromochloromethane	ND	ug/kg	3.7	1		06/17/24 11:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		06/17/24 11:15	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		06/17/24 11:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		06/17/24 11:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		06/17/24 11:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		06/17/24 11:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	73.9	1		06/17/24 11:15	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		06/17/24 11:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		06/17/24 11:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		06/17/24 11:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		06/17/24 11:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		06/17/24 11:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		06/17/24 11:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		06/17/24 11:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		06/17/24 11:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		06/17/24 11:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		06/17/24 11:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		06/17/24 11:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		06/17/24 11:15	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		06/17/24 11:15	100-41-4	
Ethyl methacrylate	ND	ug/kg	73.9	1		06/17/24 11:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		06/17/24 11:15	87-68-3	
n-Hexane	**8.3**	ug/kg	3.7	1		06/17/24 11:15	110-54-3	
2-Hexanone	ND	ug/kg	73.9	1		06/17/24 11:15	591-78-6	
Iodomethane	ND	ug/kg	73.9	1		06/17/24 11:15	74-88-4	
Isopropylbenzene (Cumene)	**8.0**	ug/kg	3.7	1		06/17/24 11:15	98-82-8	
p-Isopropyltoluene	**3.9**	ug/kg	3.7	1		06/17/24 11:15	99-87-6	
Methylene Chloride	ND	ug/kg	14.8	1		06/17/24 11:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.5	1		06/17/24 11:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		06/17/24 11:15	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		06/17/24 11:15	91-20-3	
n-Propylbenzene	**4.3**	ug/kg	3.7	1		06/17/24 11:15	103-65-1	
Styrene	ND	ug/kg	3.7	1		06/17/24 11:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		06/17/24 11:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		06/17/24 11:15	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		06/17/24 11:15	127-18-4	
Toluene	ND	ug/kg	3.7	1		06/17/24 11:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		06/17/24 11:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		06/17/24 11:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		06/17/24 11:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		06/17/24 11:15	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		06/17/24 11:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		06/17/24 11:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		06/17/24 11:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		06/17/24 11:15	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: DUP **Lab ID: 50374807005** Collected: 06/03/24 08:00 Received: 06/03/24 15:00 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							
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		06/17/24 11:15	108-67-8	
Vinyl acetate	ND	ug/kg	73.9	1		06/17/24 11:15	108-05-4	
Vinyl chloride	ND	ug/kg	3.7	1		06/17/24 11:15	75-01-4	
Xylene (Total)	ND	ug/kg	7.4	1		06/17/24 11:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	75-135	1		06/17/24 11:15	1868-53-7	
Toluene-d8 (S)	107	%.	65-148	1		06/17/24 11:15	2037-26-5	
4-Bromofluorobenzene (S)	139	%.	63-132	1		06/17/24 11:15	460-00-4	S5
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**19.4**	%	0.10	1		06/17/24 13:16		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: Trip Blank **Lab ID: 50374807006** Collected: 06/03/24 07:00 Received: 06/03/24 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/12/24 19:51	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/12/24 19:51	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/12/24 19:51	107-13-1	
Benzene	ND	ug/L	5.0	1		06/12/24 19:51	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/12/24 19:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/12/24 19:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/12/24 19:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/12/24 19:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/12/24 19:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/12/24 19:51	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/12/24 19:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/12/24 19:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/12/24 19:51	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/12/24 19:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/12/24 19:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/12/24 19:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/12/24 19:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/12/24 19:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/12/24 19:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/12/24 19:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/12/24 19:51	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/12/24 19:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/12/24 19:51	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/12/24 19:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/12/24 19:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/12/24 19:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/12/24 19:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/12/24 19:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/12/24 19:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/12/24 19:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/12/24 19:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/12/24 19:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/12/24 19:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/12/24 19:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/12/24 19:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/12/24 19:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/12/24 19:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/12/24 19:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/12/24 19:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/12/24 19:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/12/24 19:51	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/12/24 19:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/12/24 19:51	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/12/24 19:51	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		06/12/24 19:51	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/12/24 19:51	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK #42
Pace Project No.: 50374807

Sample: Trip Blank **Lab ID: 50374807006** Collected: 06/03/24 07:00 Received: 06/03/24 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/12/24 19:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/12/24 19:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/12/24 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/12/24 19:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/12/24 19:51	1634-04-4	
n-Propylbenzene	ND	ug/L	5.0	1		06/12/24 19:51	103-65-1	
Styrene	ND	ug/L	5.0	1		06/12/24 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/24 19:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/12/24 19:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/12/24 19:51	127-18-4	
Toluene	ND	ug/L	5.0	1		06/12/24 19:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/12/24 19:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/12/24 19:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/12/24 19:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/12/24 19:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/12/24 19:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/12/24 19:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/12/24 19:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/12/24 19:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/12/24 19:51	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/12/24 19:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/12/24 19:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/12/24 19:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	82-128	1		06/12/24 19:51	1868-53-7	
4-Bromofluorobenzene (S)	112	%.	79-124	1		06/12/24 19:51	460-00-4	
Toluene-d8 (S)	95	%.	73-122	1		06/12/24 19:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

QC Batch: 795322
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50374807006

METHOD BLANK: 3638838 Matrix: Water
Associated Lab Samples: 50374807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/12/24 13:17	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/12/24 13:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/12/24 13:17	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/12/24 13:17	
1,1-Dichloroethane	ug/L	ND	5.0	06/12/24 13:17	
1,1-Dichloroethene	ug/L	ND	5.0	06/12/24 13:17	
1,1-Dichloropropene	ug/L	ND	5.0	06/12/24 13:17	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/12/24 13:17	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/12/24 13:17	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/12/24 13:17	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/12/24 13:17	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/12/24 13:17	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/12/24 13:17	
1,2-Dichloroethane	ug/L	ND	5.0	06/12/24 13:17	
1,2-Dichloropropane	ug/L	ND	5.0	06/12/24 13:17	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/12/24 13:17	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/12/24 13:17	
1,3-Dichloropropane	ug/L	ND	5.0	06/12/24 13:17	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/12/24 13:17	
2,2-Dichloropropane	ug/L	ND	5.0	06/12/24 13:17	
2-Butanone (MEK)	ug/L	ND	25.0	06/12/24 13:17	
2-Chlorotoluene	ug/L	ND	5.0	06/12/24 13:17	
2-Hexanone	ug/L	ND	25.0	06/12/24 13:17	
4-Chlorotoluene	ug/L	ND	5.0	06/12/24 13:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/12/24 13:17	
Acetone	ug/L	ND	100	06/12/24 13:17	
Acrolein	ug/L	ND	50.0	06/12/24 13:17	
Acrylonitrile	ug/L	ND	100	06/12/24 13:17	
Benzene	ug/L	ND	5.0	06/12/24 13:17	
Bromobenzene	ug/L	ND	5.0	06/12/24 13:17	
Bromochloromethane	ug/L	ND	5.0	06/12/24 13:17	
Bromodichloromethane	ug/L	ND	5.0	06/12/24 13:17	
Bromoform	ug/L	ND	5.0	06/12/24 13:17	
Bromomethane	ug/L	ND	5.0	06/12/24 13:17	
Carbon disulfide	ug/L	ND	10.0	06/12/24 13:17	
Carbon tetrachloride	ug/L	ND	5.0	06/12/24 13:17	
Chlorobenzene	ug/L	ND	5.0	06/12/24 13:17	
Chloroethane	ug/L	ND	5.0	06/12/24 13:17	
Chloroform	ug/L	ND	5.0	06/12/24 13:17	
Chloromethane	ug/L	ND	5.0	06/12/24 13:17	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

METHOD BLANK: 3638838 Matrix: Water
Associated Lab Samples: 50374807006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/12/24 13:17	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/12/24 13:17	
Dibromochloromethane	ug/L	ND	5.0	06/12/24 13:17	
Dibromomethane	ug/L	ND	5.0	06/12/24 13:17	
Dichlorodifluoromethane	ug/L	ND	5.0	06/12/24 13:17	
Ethyl methacrylate	ug/L	ND	100	06/12/24 13:17	
Ethylbenzene	ug/L	ND	5.0	06/12/24 13:17	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/12/24 13:17	
Iodomethane	ug/L	ND	10.0	06/12/24 13:17	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/12/24 13:17	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/12/24 13:17	
Methylene Chloride	ug/L	ND	5.0	06/12/24 13:17	
n-Butylbenzene	ug/L	ND	5.0	06/12/24 13:17	
n-Hexane	ug/L	ND	5.0	06/12/24 13:17	
n-Propylbenzene	ug/L	ND	5.0	06/12/24 13:17	
p-Isopropyltoluene	ug/L	ND	5.0	06/12/24 13:17	
sec-Butylbenzene	ug/L	ND	5.0	06/12/24 13:17	
Styrene	ug/L	ND	5.0	06/12/24 13:17	
tert-Butylbenzene	ug/L	ND	5.0	06/12/24 13:17	
Tetrachloroethene	ug/L	ND	5.0	06/12/24 13:17	
Toluene	ug/L	ND	5.0	06/12/24 13:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/12/24 13:17	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/12/24 13:17	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/12/24 13:17	
Trichloroethene	ug/L	ND	5.0	06/12/24 13:17	
Trichlorofluoromethane	ug/L	ND	5.0	06/12/24 13:17	
Vinyl acetate	ug/L	ND	50.0	06/12/24 13:17	
Vinyl chloride	ug/L	ND	2.0	06/12/24 13:17	
Xylene (Total)	ug/L	ND	10.0	06/12/24 13:17	
4-Bromofluorobenzene (S)	%.	105	79-124	06/12/24 13:17	
Dibromofluoromethane (S)	%.	102	82-128	06/12/24 13:17	
Toluene-d8 (S)	%.	79	73-122	06/12/24 13:17	

LABORATORY CONTROL SAMPLE: 3638839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.7	109	81-130	
1,1,1-Trichloroethane	ug/L	50	56.0	112	71-126	
1,1,2,2-Tetrachloroethane	ug/L	50	44.7	89	70-126	
1,1,2-Trichloroethane	ug/L	50	48.8	98	79-125	
1,1-Dichloroethane	ug/L	50	47.0	94	79-120	
1,1-Dichloroethene	ug/L	50	60.2	120	71-130	
1,1-Dichloropropene	ug/L	50	48.7	97	78-144	
1,2,3-Trichlorobenzene	ug/L	50	45.7	91	57-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

LABORATORY CONTROL SAMPLE: 3638839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	48.9	98	74-127	
1,2,4-Trichlorobenzene	ug/L	50	45.4	91	62-136	
1,2,4-Trimethylbenzene	ug/L	50	49.2	98	69-120	
1,2-Dibromoethane (EDB)	ug/L	50	56.1	112	80-120	
1,2-Dichlorobenzene	ug/L	50	49.6	99	79-123	
1,2-Dichloroethane	ug/L	50	52.6	105	72-123	
1,2-Dichloropropane	ug/L	50	45.6	91	76-125	
1,3,5-Trimethylbenzene	ug/L	50	49.7	99	71-120	
1,3-Dichlorobenzene	ug/L	50	50.4	101	78-117	
1,3-Dichloropropane	ug/L	50	49.2	98	77-126	
1,4-Dichlorobenzene	ug/L	50	48.9	98	79-116	
2,2-Dichloropropane	ug/L	50	54.9	110	48-138	
2-Butanone (MEK)	ug/L	250	197	79	67-135	
2-Chlorotoluene	ug/L	50	46.4	93	75-122	
2-Hexanone	ug/L	250	198	79	65-135	
4-Chlorotoluene	ug/L	50	49.5	99	77-120	
4-Methyl-2-pentanone (MIBK)	ug/L	250	202	81	69-136	
Acetone	ug/L	250	213	85	34-156	
Acrolein	ug/L	1000	1040	104	59-191	
Acrylonitrile	ug/L	250	227	91	67-146	
Benzene	ug/L	50	47.5	95	76-122	
Bromobenzene	ug/L	50	51.8	104	75-121	
Bromochloromethane	ug/L	50	41.4	83	73-119	
Bromodichloromethane	ug/L	50	53.9	108	80-126	
Bromoform	ug/L	50	46.8	94	77-124	
Bromomethane	ug/L	50	46.3	93	10-175	
Carbon disulfide	ug/L	50	48.1	96	69-121	
Carbon tetrachloride	ug/L	50	55.0	110	73-127	
Chlorobenzene	ug/L	50	49.2	98	76-118	
Chloroethane	ug/L	50	43.1	86	36-162	
Chloroform	ug/L	50	51.9	104	78-121	
Chloromethane	ug/L	50	33.5	67	37-143	
cis-1,2-Dichloroethene	ug/L	50	50.6	101	77-123	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	76-132	
Dibromochloromethane	ug/L	50	54.4	109	79-130	
Dibromomethane	ug/L	50	52.9	106	79-124	
Dichlorodifluoromethane	ug/L	50	57.8	116	29-126	
Ethyl methacrylate	ug/L	50	50.9J	102	78-137	
Ethylbenzene	ug/L	50	48.5	97	76-120	
Hexachloro-1,3-butadiene	ug/L	50	45.2	90	60-131	
Iodomethane	ug/L	50	68.5	137	10-148	
Isopropylbenzene (Cumene)	ug/L	50	57.4	115	71-124	
Methyl-tert-butyl ether	ug/L	50	53.7	107	71-121	
Methylene Chloride	ug/L	50	46.4	93	71-121	
n-Butylbenzene	ug/L	50	48.6	97	68-131	
n-Hexane	ug/L	50	40.7	81	51-126	
n-Propylbenzene	ug/L	50	45.4	91	67-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

LABORATORY CONTROL SAMPLE: 3638839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	49.0	98	72-124	
sec-Butylbenzene	ug/L	50	48.0	96	71-126	
Styrene	ug/L	50	51.5	103	80-121	
tert-Butylbenzene	ug/L	50	47.5	95	71-128	
Tetrachloroethene	ug/L	50	51.1	102	71-122	
Toluene	ug/L	50	47.8	96	74-118	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	75-122	
trans-1,3-Dichloropropene	ug/L	50	54.7	109	77-126	
trans-1,4-Dichloro-2-butene	ug/L	50	54.2J	108	53-136	
Trichloroethene	ug/L	50	50.8	102	74-125	
Trichlorofluoromethane	ug/L	50	56.6	113	64-138	
Vinyl acetate	ug/L	200	212	106	74-154	
Vinyl chloride	ug/L	50	40.7	81	55-139	
Xylene (Total)	ug/L	100	99.6	100	73-119	
4-Bromofluorobenzene (S)	%.			117	79-124	
Dibromofluoromethane (S)	%.			105	82-128	
Toluene-d8 (S)	%.			101	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3638840 3638841

Parameter	Units	50375401004 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	59.0	58.4	118	117	47-139	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	62.2	59.7	124	119	47-145	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.5	45.2	99	90	49-133	9	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.5	51.7	105	103	52-136	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	52.8	50.3	106	101	52-137	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	50.2	50.5	100	101	53-144	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	58.3	57.1	117	114	49-150	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	48.3	47.8	97	96	20-153	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	51.6	48.2	103	96	47-134	7	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	44.6	44.2	89	88	23-141	1	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	48.4	42.0	97	84	41-131	14	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	58.4	60.0	117	120	55-133	3	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	52.2	48.1	100	92	43-133	8	20	
1,2-Dichloroethane	ug/L	ND	50	50	57.5	58.8	115	118	50-138	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	49.8	49.1	100	98	54-139	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	45.0	40.9	90	82	39-133	10	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	47.3	45.9	95	92	41-131	3	20	
1,3-Dichloropropane	ug/L	ND	50	50	53.3	52.0	107	104	50-136	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	49.6	48.7	99	97	41-131	2	20	
2,2-Dichloropropane	ug/L	ND	50	50	60.1	59.5	120	119	17-141	1	20	
2-Butanone (MEK)	ug/L	ND	250	250	202	202	81	81	45-138	0	20	
2-Chlorotoluene	ug/L	ND	50	50	46.6	41.3	93	83	36-141	12	20	
2-Hexanone	ug/L	ND	250	250	201	208	81	83	45-135	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3638840 3638841

Parameter	Units	50375401004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorotoluene	ug/L	ND	50	50	45.4	40.5	91	81	38-134	11	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	224	225	90	90	46-138	0	20	
Acetone	ug/L	ND	250	250	150	154	60	62	25-151	3	20	
Acrolein	ug/L	ND	1000	1000	601	639	60	64	36-168	6	20	
Acrylonitrile	ug/L	ND	250	250	245	251	98	100	47-147	2	20	
Benzene	ug/L	ND	50	50	53.2	52.4	106	105	53-138	1	20	
Bromobenzene	ug/L	ND	50	50	55.1	50.9	110	102	47-130	8	20	
Bromochloromethane	ug/L	ND	50	50	48.0	47.9	96	96	52-130	0	20	
Bromodichloromethane	ug/L	ND	50	50	63.2	61.7	126	123	50-146	2	20	
Bromoform	ug/L	ND	50	50	50.2	51.9	100	104	45-132	3	20	
Bromomethane	ug/L	ND	50	50	50.1	52.2	100	104	10-173	4	20	
Carbon disulfide	ug/L	ND	50	50	47.6	46.5	95	93	47-133	2	20	
Carbon tetrachloride	ug/L	ND	50	50	61.7	61.4	123	123	43-148	1	20	
Chlorobenzene	ug/L	ND	50	50	52.6	52.0	105	104	52-131	1	20	
Chloroethane	ug/L	ND	50	50	41.0	38.8	82	78	25-169	5	20	
Chloroform	ug/L	ND	50	50	59.7	57.4	119	115	54-138	4	20	
Chloromethane	ug/L	ND	50	50	31.3	29.9	63	60	33-137	5	20	
cis-1,2-Dichloroethene	ug/L	18.0	50	50	74.4	74.1	113	112	50-141	0	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	54.7	53.5	109	107	47-135	2	20	
Dibromochloromethane	ug/L	ND	50	50	60.2	60.4	120	121	48-139	0	20	
Dibromomethane	ug/L	ND	50	50	59.0	58.5	118	117	51-141	1	20	
Dichlorodifluoromethane	ug/L	ND	50	50	29.0	29.1	58	58	15-130	0	20	
Ethyl methacrylate	ug/L	ND	50	50	56J	58.1J	112	116	51-142		20	
Ethylbenzene	ug/L	ND	50	50	52.8	50.6	106	101	50-136	4	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	46.2	41.8	92	84	15-141	10	20	
Iodomethane	ug/L	ND	50	50	65.9	63.3	132	127	10-145	4	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	48.5	46.7	97	93	46-137	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	60.0	59.9	120	120	47-135	0	20	
Methylene Chloride	ug/L	ND	50	50	48.2	50.3	96	101	48-131	4	20	
n-Butylbenzene	ug/L	ND	50	50	44.4	39.9	89	80	30-138	11	20	
n-Hexane	ug/L	ND	50	50	38.9	39.1	78	78	35-137	1	20	
n-Propylbenzene	ug/L	ND	50	50	44.9	41.0	90	82	37-135	9	20	
p-Isopropyltoluene	ug/L	ND	50	50	47.9	46.3	96	93	35-136	3	20	
sec-Butylbenzene	ug/L	ND	50	50	47.6	43.5	95	87	36-137	9	20	
Styrene	ug/L	ND	50	50	54.0	52.9	108	106	46-136	2	20	
tert-Butylbenzene	ug/L	ND	50	50	48.9	42.3	98	85	40-137	14	20	
Tetrachloroethene	ug/L	ND	50	50	52.6	51.8	105	104	44-138	2	20	
Toluene	ug/L	ND	50	50	50.5	49.8	101	100	52-132	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.1	53.6	106	105	50-137	1	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	56.9	58.1	114	116	46-130	2	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	57.2J	52.1J	114	104	24-134		20	
Trichloroethene	ug/L	5.1	50	50	60.1	60.3	110	110	49-140	0	20	
Trichlorofluoromethane	ug/L	ND	50	50	51.8	50.1	104	100	44-153	3	20	
Vinyl acetate	ug/L	ND	200	200	219	216	109	108	32-142	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3638840 3638841

Parameter	Units	50375401004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	ND	50	50	37.0	34.6	74	69	41-147	7	20	
Xylene (Total)	ug/L	ND	150	150	155	148	103	98	44-138	5	20	
4-Bromofluorobenzene (S)	%.						119	103	79-124			
Dibromofluoromethane (S)	%.						105	105	82-128			
Toluene-d8 (S)	%.						99	100	73-122			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

QC Batch: 795358
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50374807001, 50374807002, 50374807003, 50374807004

METHOD BLANK: 3639036 Matrix: Solid
Associated Lab Samples: 50374807001, 50374807002, 50374807003, 50374807004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/12/24 13:52	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/12/24 13:52	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/12/24 13:52	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/12/24 13:52	
1,1-Dichloroethane	ug/kg	ND	5.0	06/12/24 13:52	
1,1-Dichloroethene	ug/kg	ND	5.0	06/12/24 13:52	
1,1-Dichloropropene	ug/kg	ND	5.0	06/12/24 13:52	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/12/24 13:52	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/12/24 13:52	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/12/24 13:52	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/12/24 13:52	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/12/24 13:52	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/12/24 13:52	
1,2-Dichloroethane	ug/kg	ND	5.0	06/12/24 13:52	
1,2-Dichloropropane	ug/kg	ND	5.0	06/12/24 13:52	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/12/24 13:52	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/12/24 13:52	
1,3-Dichloropropane	ug/kg	ND	5.0	06/12/24 13:52	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/12/24 13:52	
2,2-Dichloropropane	ug/kg	ND	5.0	06/12/24 13:52	
2-Butanone (MEK)	ug/kg	ND	25.0	06/12/24 13:52	
2-Chlorotoluene	ug/kg	ND	5.0	06/12/24 13:52	
2-Hexanone	ug/kg	ND	100	06/12/24 13:52	
4-Chlorotoluene	ug/kg	ND	5.0	06/12/24 13:52	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	06/12/24 13:52	
Acetone	ug/kg	ND	100	06/12/24 13:52	
Acrolein	ug/kg	ND	100	06/12/24 13:52	
Acrylonitrile	ug/kg	ND	100	06/12/24 13:52	
Benzene	ug/kg	ND	5.0	06/12/24 13:52	
Bromobenzene	ug/kg	ND	5.0	06/12/24 13:52	
Bromochloromethane	ug/kg	ND	5.0	06/12/24 13:52	
Bromodichloromethane	ug/kg	ND	5.0	06/12/24 13:52	
Bromoform	ug/kg	ND	5.0	06/12/24 13:52	
Bromomethane	ug/kg	ND	5.0	06/12/24 13:52	
Carbon disulfide	ug/kg	ND	10.0	06/12/24 13:52	
Carbon tetrachloride	ug/kg	ND	5.0	06/12/24 13:52	
Chlorobenzene	ug/kg	ND	5.0	06/12/24 13:52	
Chloroethane	ug/kg	ND	5.0	06/12/24 13:52	
Chloroform	ug/kg	ND	5.0	06/12/24 13:52	
Chloromethane	ug/kg	ND	5.0	06/12/24 13:52	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

METHOD BLANK: 3639036 Matrix: Solid
Associated Lab Samples: 50374807001, 50374807002, 50374807003, 50374807004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/12/24 13:52	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/12/24 13:52	
Dibromochloromethane	ug/kg	ND	5.0	06/12/24 13:52	
Dibromomethane	ug/kg	ND	5.0	06/12/24 13:52	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/12/24 13:52	
Ethyl methacrylate	ug/kg	ND	100	06/12/24 13:52	
Ethylbenzene	ug/kg	ND	5.0	06/12/24 13:52	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/12/24 13:52	
Iodomethane	ug/kg	ND	100	06/12/24 13:52	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/12/24 13:52	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/12/24 13:52	
Methylene Chloride	ug/kg	ND	20.0	06/12/24 13:52	
n-Butylbenzene	ug/kg	ND	5.0	06/12/24 13:52	
n-Hexane	ug/kg	ND	5.0	06/12/24 13:52	
n-Propylbenzene	ug/kg	ND	5.0	06/12/24 13:52	
Naphthalene	ug/kg	ND	5.0	06/12/24 13:52	
p-Isopropyltoluene	ug/kg	ND	5.0	06/12/24 13:52	
sec-Butylbenzene	ug/kg	ND	5.0	06/12/24 13:52	
Styrene	ug/kg	ND	5.0	06/12/24 13:52	
tert-Butylbenzene	ug/kg	ND	5.0	06/12/24 13:52	
Tetrachloroethene	ug/kg	ND	5.0	06/12/24 13:52	
Toluene	ug/kg	ND	5.0	06/12/24 13:52	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/12/24 13:52	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/12/24 13:52	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	06/12/24 13:52	
Trichloroethene	ug/kg	ND	5.0	06/12/24 13:52	
Trichlorofluoromethane	ug/kg	ND	5.0	06/12/24 13:52	
Vinyl acetate	ug/kg	ND	100	06/12/24 13:52	
Vinyl chloride	ug/kg	ND	5.0	06/12/24 13:52	
Xylene (Total)	ug/kg	ND	10.0	06/12/24 13:52	
4-Bromofluorobenzene (S)	%.	103	63-132	06/12/24 13:52	
Dibromofluoromethane (S)	%.	100	75-135	06/12/24 13:52	1d
Toluene-d8 (S)	%.	99	65-148	06/12/24 13:52	

LABORATORY CONTROL SAMPLE: 3639037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	46.1	92	67-134	
1,1,2,2-Tetrachloroethane	ug/kg	50	47.2	94	67-122	
1,1-Dichloroethene	ug/kg	50	38.0	76	57-140	
1,2,4-Trimethylbenzene	ug/kg	50	44.2	88	60-122	
1,2-Dibromoethane (EDB)	ug/kg	50	46.3	93	71-126	
1,2-Dichloroethane	ug/kg	50	47.8	96	67-129	
1,2-Dichloropropane	ug/kg	50	46.1	92	71-123	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

LABORATORY CONTROL SAMPLE: 3639037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3,5-Trimethylbenzene	ug/kg	50	43.8	88	62-118	
Benzene	ug/kg	50	44.9	90	69-125	
Chlorobenzene	ug/kg	50	43.6	87	68-122	
Chloroform	ug/kg	50	45.3	91	71-124	
cis-1,2-Dichloroethene	ug/kg	50	44.6	89	70-123	
Ethylbenzene	ug/kg	50	44.9	90	65-124	
Isopropylbenzene (Cumene)	ug/kg	50	40.3	81	65-126	
Methyl-tert-butyl ether	ug/kg	50	39.8	80	69-128	
n-Hexane	ug/kg	50	35.2	70	55-123	
Naphthalene	ug/kg	50	48.0	96	60-133	
Tetrachloroethene	ug/kg	50	42.8	86	62-128	
Toluene	ug/kg	50	44.1	88	60-122	
trans-1,2-Dichloroethene	ug/kg	50	38.0	76	67-124	
Trichloroethene	ug/kg	50	44.8	90	68-128	
Vinyl chloride	ug/kg	50	47.8	96	52-142	
Xylene (Total)	ug/kg	150	128	86	62-122	
4-Bromofluorobenzene (S)	%.			103	63-132	
Dibromofluoromethane (S)	%.			100	75-135	
Toluene-d8 (S)	%.			101	65-148	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

QC Batch: 796028
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50374807005

METHOD BLANK: 3642707 Matrix: Solid
Associated Lab Samples: 50374807005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/17/24 09:32	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/17/24 09:32	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/17/24 09:32	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/17/24 09:32	
1,1-Dichloroethane	ug/kg	ND	5.0	06/17/24 09:32	
1,1-Dichloroethene	ug/kg	ND	5.0	06/17/24 09:32	
1,1-Dichloropropene	ug/kg	ND	5.0	06/17/24 09:32	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/17/24 09:32	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/17/24 09:32	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/17/24 09:32	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/17/24 09:32	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/17/24 09:32	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/17/24 09:32	
1,2-Dichloroethane	ug/kg	ND	5.0	06/17/24 09:32	
1,2-Dichloropropane	ug/kg	ND	5.0	06/17/24 09:32	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/17/24 09:32	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/17/24 09:32	
1,3-Dichloropropane	ug/kg	ND	5.0	06/17/24 09:32	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/17/24 09:32	
2,2-Dichloropropane	ug/kg	ND	5.0	06/17/24 09:32	
2-Butanone (MEK)	ug/kg	ND	25.0	06/17/24 09:32	
2-Chlorotoluene	ug/kg	ND	5.0	06/17/24 09:32	
2-Hexanone	ug/kg	ND	100	06/17/24 09:32	
4-Chlorotoluene	ug/kg	ND	5.0	06/17/24 09:32	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	06/17/24 09:32	
Acetone	ug/kg	ND	100	06/17/24 09:32	
Acrolein	ug/kg	ND	100	06/17/24 09:32	
Acrylonitrile	ug/kg	ND	100	06/17/24 09:32	
Benzene	ug/kg	ND	5.0	06/17/24 09:32	
Bromobenzene	ug/kg	ND	5.0	06/17/24 09:32	
Bromochloromethane	ug/kg	ND	5.0	06/17/24 09:32	
Bromodichloromethane	ug/kg	ND	5.0	06/17/24 09:32	
Bromoform	ug/kg	ND	5.0	06/17/24 09:32	
Bromomethane	ug/kg	ND	5.0	06/17/24 09:32	
Carbon disulfide	ug/kg	ND	10.0	06/17/24 09:32	
Carbon tetrachloride	ug/kg	ND	5.0	06/17/24 09:32	
Chlorobenzene	ug/kg	ND	5.0	06/17/24 09:32	
Chloroethane	ug/kg	ND	5.0	06/17/24 09:32	
Chloroform	ug/kg	ND	5.0	06/17/24 09:32	
Chloromethane	ug/kg	ND	5.0	06/17/24 09:32	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

METHOD BLANK: 3642707 Matrix: Solid
Associated Lab Samples: 50374807005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/17/24 09:32	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/17/24 09:32	
Dibromochloromethane	ug/kg	ND	5.0	06/17/24 09:32	
Dibromomethane	ug/kg	ND	5.0	06/17/24 09:32	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/17/24 09:32	
Ethyl methacrylate	ug/kg	ND	100	06/17/24 09:32	
Ethylbenzene	ug/kg	ND	5.0	06/17/24 09:32	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/17/24 09:32	
Iodomethane	ug/kg	ND	100	06/17/24 09:32	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/17/24 09:32	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/17/24 09:32	
Methylene Chloride	ug/kg	ND	20.0	06/17/24 09:32	
n-Butylbenzene	ug/kg	ND	5.0	06/17/24 09:32	
n-Hexane	ug/kg	ND	5.0	06/17/24 09:32	
n-Propylbenzene	ug/kg	ND	5.0	06/17/24 09:32	
Naphthalene	ug/kg	ND	5.0	06/17/24 09:32	
p-Isopropyltoluene	ug/kg	ND	5.0	06/17/24 09:32	
sec-Butylbenzene	ug/kg	ND	5.0	06/17/24 09:32	
Styrene	ug/kg	ND	5.0	06/17/24 09:32	
tert-Butylbenzene	ug/kg	ND	5.0	06/17/24 09:32	
Tetrachloroethene	ug/kg	ND	5.0	06/17/24 09:32	
Toluene	ug/kg	ND	5.0	06/17/24 09:32	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/17/24 09:32	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/17/24 09:32	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	06/17/24 09:32	
Trichloroethene	ug/kg	ND	5.0	06/17/24 09:32	
Trichlorofluoromethane	ug/kg	ND	5.0	06/17/24 09:32	
Vinyl acetate	ug/kg	ND	100	06/17/24 09:32	
Vinyl chloride	ug/kg	ND	5.0	06/17/24 09:32	
Xylene (Total)	ug/kg	ND	10.0	06/17/24 09:32	
4-Bromofluorobenzene (S)	%.	102	63-132	06/17/24 09:32	
Dibromofluoromethane (S)	%.	107	75-135	06/17/24 09:32	1d
Toluene-d8 (S)	%.	99	65-148	06/17/24 09:32	

LABORATORY CONTROL SAMPLE: 3642708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	55.1	110	70-129	
1,1,1-Trichloroethane	ug/kg	50	51.8	104	67-134	
1,1,2,2-Tetrachloroethane	ug/kg	50	56.0	112	67-122	
1,1,2-Trichloroethane	ug/kg	50	56.6	113	72-127	
1,1-Dichloroethane	ug/kg	50	49.7	99	72-121	
1,1-Dichloroethene	ug/kg	50	49.1	98	57-140	
1,1-Dichloropropene	ug/kg	50	52.8	106	76-133	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

LABORATORY CONTROL SAMPLE: 3642708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	50	56.2	112	53-139	
1,2,3-Trichloropropane	ug/kg	50	57.6	115	70-124	
1,2,4-Trichlorobenzene	ug/kg	50	54.6	109	49-136	
1,2,4-Trimethylbenzene	ug/kg	50	50.0	100	60-122	
1,2-Dibromoethane (EDB)	ug/kg	50	56.3	113	71-126	
1,2-Dichlorobenzene	ug/kg	50	51.8	104	68-120	
1,2-Dichloroethane	ug/kg	50	55.2	110	67-129	
1,2-Dichloropropane	ug/kg	50	52.2	104	71-123	
1,3,5-Trimethylbenzene	ug/kg	50	49.9	100	62-118	
1,3-Dichlorobenzene	ug/kg	50	51.5	103	65-121	
1,3-Dichloropropane	ug/kg	50	55.5	111	73-127	
1,4-Dichlorobenzene	ug/kg	50	51.7	103	66-122	
2,2-Dichloropropane	ug/kg	50	52.3	105	63-137	
2-Butanone (MEK)	ug/kg	250	267	107	59-136	
2-Chlorotoluene	ug/kg	50	49.1	98	67-121	
2-Hexanone	ug/kg	250	255	102	62-127	
4-Chlorotoluene	ug/kg	50	52.0	104	66-122	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	256	103	67-131	
Acetone	ug/kg	250	261	104	45-127	
Acrolein	ug/kg	1000	998	100	42-158	
Acrylonitrile	ug/kg	250	260	104	69-127	
Benzene	ug/kg	50	50.4	101	69-125	
Bromobenzene	ug/kg	50	61.3	123	69-121	L1
Bromochloromethane	ug/kg	50	51.4	103	70-125	
Bromodichloromethane	ug/kg	50	55.6	111	77-130	
Bromoform	ug/kg	50	61.9	124	67-128	
Bromomethane	ug/kg	50	52.0	104	60-156	
Carbon disulfide	ug/kg	50	49.3	99	47-137	
Carbon tetrachloride	ug/kg	50	52.1	104	68-132	
Chlorobenzene	ug/kg	50	51.1	102	68-122	
Chloroethane	ug/kg	50	52.6	105	61-137	
Chloroform	ug/kg	50	51.7	103	71-124	
Chloromethane	ug/kg	50	44.2	88	56-131	
cis-1,2-Dichloroethene	ug/kg	50	52.0	104	70-123	
cis-1,3-Dichloropropene	ug/kg	50	56.5	113	72-136	
Dibromochloromethane	ug/kg	50	58.9	118	73-130	
Dibromomethane	ug/kg	50	54.1	108	74-123	
Dichlorodifluoromethane	ug/kg	50	37.8	76	23-127	
Ethyl methacrylate	ug/kg	50	61.8J	124	70-131	
Ethylbenzene	ug/kg	50	51.0	102	65-124	
Hexachloro-1,3-butadiene	ug/kg	50	49.5	99	52-133	
Iodomethane	ug/kg	50	26.2J	52	50-137	
Isopropylbenzene (Cumene)	ug/kg	50	45.3	91	65-126	
Methyl-tert-butyl ether	ug/kg	50	56.6	113	69-128	
Methylene Chloride	ug/kg	50	42.0	84	61-128	
n-Butylbenzene	ug/kg	50	51.6	103	62-127	
n-Hexane	ug/kg	50	45.2	90	55-123	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

LABORATORY CONTROL SAMPLE: 3642708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/kg	50	49.9	100	67-124	
Naphthalene	ug/kg	50	56.0	112	60-133	
p-Isopropyltoluene	ug/kg	50	50.4	101	64-124	
sec-Butylbenzene	ug/kg	50	50.2	100	68-124	
Styrene	ug/kg	50	52.4	105	68-124	
tert-Butylbenzene	ug/kg	50	50.7	101	69-122	
Tetrachloroethene	ug/kg	50	50.6	101	62-128	
Toluene	ug/kg	50	48.8	98	60-122	
trans-1,2-Dichloroethene	ug/kg	50	48.7	97	67-124	
trans-1,3-Dichloropropene	ug/kg	50	58.1	116	68-136	
trans-1,4-Dichloro-2-butene	ug/kg	50	63.8J	128	64-134	
Trichloroethene	ug/kg	50	50.1	100	68-128	
Trichlorofluoromethane	ug/kg	50	47.1	94	57-146	
Vinyl acetate	ug/kg	200	273	136	56-181	
Vinyl chloride	ug/kg	50	46.9	94	52-142	
Xylene (Total)	ug/kg	150	150	100	62-122	
4-Bromofluorobenzene (S)	%.			100	63-132	
Dibromofluoromethane (S)	%.			100	75-135	
Toluene-d8 (S)	%.			98	65-148	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

QC Batch: 795736
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50374807001, 50374807002, 50374807003, 50374807004

METHOD BLANK: 3641042 Matrix: Solid
Associated Lab Samples: 50374807001, 50374807002, 50374807003, 50374807004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	06/14/24 15:50	
2-Methylnaphthalene	ug/kg	ND	5.0	06/14/24 15:50	
Acenaphthene	ug/kg	ND	5.0	06/14/24 15:50	
Acenaphthylene	ug/kg	ND	5.0	06/14/24 15:50	
Anthracene	ug/kg	ND	5.0	06/14/24 15:50	
Benzo(a)anthracene	ug/kg	ND	5.0	06/14/24 15:50	
Benzo(a)pyrene	ug/kg	ND	5.0	06/14/24 15:50	
Benzo(b)fluoranthene	ug/kg	ND	5.0	06/14/24 15:50	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	06/14/24 15:50	
Benzo(k)fluoranthene	ug/kg	ND	5.0	06/14/24 15:50	
Chrysene	ug/kg	ND	5.0	06/14/24 15:50	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	06/14/24 15:50	
Fluoranthene	ug/kg	ND	5.0	06/14/24 15:50	
Fluorene	ug/kg	ND	5.0	06/14/24 15:50	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	06/14/24 15:50	
Naphthalene	ug/kg	ND	5.0	06/14/24 15:50	
Phenanthrene	ug/kg	ND	5.0	06/14/24 15:50	
Pyrene	ug/kg	ND	5.0	06/14/24 15:50	
2-Fluorobiphenyl (S)	%.	62	16-93	06/14/24 15:50	
p-Terphenyl-d14 (S)	%.	81	19-115	06/14/24 15:50	

LABORATORY CONTROL SAMPLE: 3641043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	667	372	56	49-116	
2-Methylnaphthalene	ug/kg	667	339	51	48-116	
Acenaphthene	ug/kg	667	371	56	48-118	
Acenaphthylene	ug/kg	667	449	67	50-123	
Anthracene	ug/kg	667	395	59	45-123	
Benzo(a)anthracene	ug/kg	667	424	64	52-131	
Benzo(a)pyrene	ug/kg	667	469	70	56-135	
Benzo(b)fluoranthene	ug/kg	667	438	66	52-139	
Benzo(g,h,i)perylene	ug/kg	667	386	58	49-132	
Benzo(k)fluoranthene	ug/kg	667	491	74	55-134	
Chrysene	ug/kg	667	416	62	52-127	
Dibenz(a,h)anthracene	ug/kg	667	419	63	51-137	
Fluoranthene	ug/kg	667	426	64	53-136	
Fluorene	ug/kg	667	394	59	52-124	
Indeno(1,2,3-cd)pyrene	ug/kg	667	411	62	49-139	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

LABORATORY CONTROL SAMPLE: 3641043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	667	370	55	45-110	
Phenanthrene	ug/kg	667	419	63	52-124	
Pyrene	ug/kg	667	484	73	53-129	
2-Fluorobiphenyl (S)	%.			57	16-93	
p-Terphenyl-d14 (S)	%.			76	19-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641044 3641045

Parameter	Units	50375209015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	690	685	440	457	64	67	20-133	4	20	
2-Methylnaphthalene	ug/kg	ND	690	685	394	402	57	59	16-136	2	20	
Acenaphthene	ug/kg	ND	690	685	422	432	61	63	30-119	2	20	
Acenaphthylene	ug/kg	ND	690	685	488	502	71	73	34-117	3	20	
Anthracene	ug/kg	ND	690	685	403	420	58	61	16-129	4	20	
Benzo(a)anthracene	ug/kg	0.0079 mg/kg	690	685	410	442	58	63	20-136	7	20	
Benzo(a)pyrene	ug/kg	0.0082 mg/kg	690	685	448	496	64	71	20-142	10	20	
Benzo(b)fluoranthene	ug/kg	0.011 mg/kg	690	685	407	505	57	72	17-141	22	20	R1
Benzo(g,h,i)perylene	ug/kg	0.0052 mg/kg	690	685	368	398	53	57	14-130	8	20	
Benzo(k)fluoranthene	ug/kg	ND	690	685	481	463	69	67	19-142	4	20	
Chrysene	ug/kg	0.0097 mg/kg	690	685	406	443	57	63	22-131	9	20	
Dibenz(a,h)anthracene	ug/kg	ND	690	685	413	437	60	64	27-124	6	20	
Fluoranthene	ug/kg	0.015 mg/kg	690	685	422	461	59	65	12-155	9	20	
Fluorene	ug/kg	ND	690	685	439	461	64	67	25-135	5	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	690	685	396	433	57	63	18-133	9	20	
Naphthalene	ug/kg	ND	690	685	439	443	64	65	11-130	1	20	
Phenanthrene	ug/kg	0.0076 mg/kg	690	685	431	456	61	65	11-147	6	20	
Pyrene	ug/kg	0.016 mg/kg	690	685	482	526	68	74	11-154	9	20	
2-Fluorobiphenyl (S)	%.						60	61	16-93			
p-Terphenyl-d14 (S)	%.						73	77	19-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

QC Batch: 795832
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50374807005

METHOD BLANK: 3641504 Matrix: Solid
Associated Lab Samples: 50374807005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	06/17/24 13:28	
2-Methylnaphthalene	ug/kg	ND	5.0	06/17/24 13:28	
Acenaphthene	ug/kg	ND	5.0	06/17/24 13:28	
Acenaphthylene	ug/kg	ND	5.0	06/17/24 13:28	
Anthracene	ug/kg	ND	5.0	06/17/24 13:28	
Benzo(a)anthracene	ug/kg	ND	5.0	06/17/24 13:28	
Benzo(a)pyrene	ug/kg	ND	5.0	06/17/24 13:28	
Benzo(b)fluoranthene	ug/kg	ND	5.0	06/17/24 13:28	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	06/17/24 13:28	
Benzo(k)fluoranthene	ug/kg	ND	5.0	06/17/24 13:28	
Chrysene	ug/kg	ND	5.0	06/17/24 13:28	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	06/17/24 13:28	
Fluoranthene	ug/kg	ND	5.0	06/17/24 13:28	
Fluorene	ug/kg	ND	5.0	06/17/24 13:28	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	06/17/24 13:28	
Naphthalene	ug/kg	ND	5.0	06/17/24 13:28	
Phenanthrene	ug/kg	ND	5.0	06/17/24 13:28	
Pyrene	ug/kg	ND	5.0	06/17/24 13:28	
2-Fluorobiphenyl (S)	%.	68	16-93	06/17/24 13:28	
p-Terphenyl-d14 (S)	%.	87	19-115	06/17/24 13:28	

LABORATORY CONTROL SAMPLE: 3641505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	667	463	69	49-116	
2-Methylnaphthalene	ug/kg	667	409	61	48-116	
Acenaphthene	ug/kg	667	458	69	48-118	
Acenaphthylene	ug/kg	667	532	80	50-123	
Anthracene	ug/kg	667	460	69	45-123	
Benzo(a)anthracene	ug/kg	667	478	72	52-131	
Benzo(a)pyrene	ug/kg	667	545	82	56-135	
Benzo(b)fluoranthene	ug/kg	667	521	78	52-139	
Benzo(g,h,i)perylene	ug/kg	667	463	69	49-132	
Benzo(k)fluoranthene	ug/kg	667	537	81	55-134	
Chrysene	ug/kg	667	493	74	52-127	
Dibenz(a,h)anthracene	ug/kg	667	502	75	51-137	
Fluoranthene	ug/kg	667	524	79	53-136	
Fluorene	ug/kg	667	484	73	52-124	
Indeno(1,2,3-cd)pyrene	ug/kg	667	494	74	49-139	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

LABORATORY CONTROL SAMPLE: 3641505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	667	463	69	45-110	
Phenanthrene	ug/kg	667	488	73	52-124	
Pyrene	ug/kg	667	536	80	53-129	
2-Fluorobiphenyl (S)	%.			67	16-93	
p-Terphenyl-d14 (S)	%.			83	19-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641506 3641507

Parameter	Units	50375064002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<0.0023 mg/kg	775	765	480	478	62	63	20-133	0	20	
2-Methylnaphthalene	ug/kg	<0.0054 mg/kg	775	765	426	421	55	55	16-136	1	20	
Acenaphthene	ug/kg	<0.0023 mg/kg	775	765	480	472	62	62	30-119	2	20	
Acenaphthylene	ug/kg	<0.0021 mg/kg	775	765	566	556	73	73	34-117	2	20	
Anthracene	ug/kg	<0.0029 mg/kg	775	765	469	452	61	59	16-129	4	20	
Benzo(a)anthracene	ug/kg	<0.0016 mg/kg	775	765	489	456	63	60	20-136	7	20	
Benzo(a)pyrene	ug/kg	<0.0034 mg/kg	775	765	542	507	70	66	20-142	7	20	
Benzo(b)fluoranthene	ug/kg	0.0043J mg/kg	775	765	520	483	67	63	17-141	7	20	
Benzo(g,h,i)perylene	ug/kg	<0.0034 mg/kg	775	765	443	423	57	55	14-130	5	20	
Benzo(k)fluoranthene	ug/kg	<0.0026 mg/kg	775	765	532	503	69	66	19-142	5	20	
Chrysene	ug/kg	<0.0039 mg/kg	775	765	504	474	65	62	22-131	6	20	
Dibenz(a,h)anthracene	ug/kg	<0.0028 mg/kg	775	765	499	468	64	61	27-124	7	20	
Fluoranthene	ug/kg	0.0054J mg/kg	775	765	541	507	69	66	12-155	6	20	
Fluorene	ug/kg	<0.0023 mg/kg	775	765	507	490	65	64	25-135	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.0029 mg/kg	775	765	477	452	62	59	18-133	5	20	
Naphthalene	ug/kg	<0.0052 mg/kg	775	765	501	498	65	65	11-130	1	20	
Phenanthrene	ug/kg	<0.0041 mg/kg	775	765	510	486	66	64	11-147	5	20	
Pyrene	ug/kg	0.0058 mg/kg	775	765	566	528	72	68	11-154	7	20	
2-Fluorobiphenyl (S)	%.						66	64	16-93			
p-Terphenyl-d14 (S)	%.						80	76	19-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK #42
Pace Project No.: 50374807

QC Batch: 796019
QC Batch Method: SM 2540G
Analysis Method: SM 2540G
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50374807001, 50374807002, 50374807003, 50374807004, 50374807005

SAMPLE DUPLICATE: 3642691

Parameter	Units	50374944003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.9	23.9	4	10	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALIFIERS

Project: CK #42
Pace Project No.: 50374807

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.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
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.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CK #42
Pace Project No.: 50374807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50374807001	**MW1 (6-8)**	EPA 3546	795736	EPA 8270 by SIM	796023
50374807002	**MW1 (8-10)**	EPA 3546	795736	EPA 8270 by SIM	796023
50374807003	**MW2 (0-2)**	EPA 3546	795736	EPA 8270 by SIM	796023
50374807004	**MW2 (8-10)**	EPA 3546	795736	EPA 8270 by SIM	796023
50374807005	**DUP**	EPA 3546	795832	EPA 8270 by SIM	796312
50374807006	**Trip Blank**	EPA 8260	795322		
50374807001	**MW1 (6-8)**	EPA 8260	795358		
50374807002	**MW1 (8-10)**	EPA 8260	795358		
50374807003	**MW2 (0-2)**	EPA 8260	795358		
50374807004	**MW2 (8-10)**	EPA 8260	795358		
50374807005	**DUP**	EPA 8260	796028		
50374807001	**MW1 (6-8)**	SM 2540G	796019		
50374807002	**MW1 (8-10)**	SM 2540G	796019		
50374807003	**MW2 (0-2)**	SM 2540G	796019		
50374807004	**MW2 (8-10)**	SM 2540G	796019		
50374807005	**DUP**	SM 2540G	796019		

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 50374807

50374807

Company Name:	American Environmental	Contact/Report To:	Jim Madding
Street Address:	8500 Georgetown Rd, Indianapolis, IN 46268	Phone #:	(317)871-4090
		E-Mail:	madding@aecindy.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	CK #42	Invoice To:	Accounts Payable
		Invoice E-Mail:	accountspayable@aecindy.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 10 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Heather Patterson**
AcctNum / Client ID:
Table #:
Profile / Template: **628-8, 9**
Prelog / Bottle Ord. ID: **EZ 3119260**

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC by 8260	PAH by 8270	Sample Comment
MW1 (6-8)	SS	G	6/3/24	1145						X	X	
MW1 (8-10)				1145								
MW2 (0-2)				~~1200~~	D45							
MW2 (8-10)				~~1245~~	1245							
DUP				—								
Trip Blank	OT			0700								

Additional Instructions from Pace®:
Terra core vials must be frozen at the lab within 48 hours of collection.

Collected By:
(Printed Name) Caleb Bowlkamp
Signature: Caleb B

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	B	0.0	0.8	0.8	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
C. Bowlkamp / AEC	6/3/24 @ 1500		6/3/24 1500	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/3/24 17:44 JG

1. **Courier:** ☐FED EX ☐UPS ☑CLIENT ☐PACE ☐NOW/JETT ☐OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A (B) C D E F G H
4. **Cooler Temperature(s):** 0.8/0.8 | | | |
   (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐Yes ☐No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** ☑Yes ☐No
   If yes but not on COC what is the EZ Bottle Order Number?:

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)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
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
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Rush TAT Requested (4 days or less):		—	Residual Chlorine Check (Total/Amenable/Free Cyanide)		—	✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent ✓	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?	✓		
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:	✓		

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

									AMBER GLASS							PLASTIC									OTHER							
			MeOH (only)																												
			SBS		VOA																										
			DI		VIAL																										
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1	1		4																								SL				
2	↓		↓																								↓				
3																															
4																															
5	↓		↓																								↓				
6				3																								WT				
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 18, 2024

Mr. Jim Madding
American Environmental
8500 Georgetown Rd
Indianapolis, IN 46268

RE: Project: CK 42
Pace Project No.: 50375315

Dear Mr. Madding:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2024. 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,

Heather Patterson
heather.patterson@pacelabs.com
(317)228-3146
Project Manager

Enclosures

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: CK 42
Pace Project No.: 50375315

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
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: CK 42
Pace Project No.: 50375315

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50375315001	**MW1**	Water	06/07/24 11:45	06/07/24 14:25
50375315002	**MW2**	Water	06/07/24 12:00	06/07/24 14:25
50375315003	**MW3**	Water	06/07/24 12:15	06/07/24 14:25
50375315004	**MW4**	Water	06/07/24 12:30	06/07/24 14:25
50375315005	**DUP**	Water	06/07/24 08:00	06/07/24 14:25
50375315006	**Trip Blank**	Water	06/07/24 07:00	06/07/24 14:25

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: CK 42
Pace Project No.: 50375315

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50375315001	**MW1**	EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	BES	72	PASI-I
50375315002	**MW2**	EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	BES	72	PASI-I
50375315003	**MW3**	EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	BES	72	PASI-I
50375315004	**MW4**	EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	BES	72	PASI-I
50375315005	**DUP**	EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	BES	72	PASI-I
50375315006	**Trip Blank**	EPA 8260	BES	72	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: CK 42
Pace Project No.: 50375315

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50375315001	**MW1**					
EPA 8270 by SIM 40E	1-Methylnaphthalene	3.9	ug/L	0.99	06/12/24 23:16	
EPA 8270 by SIM 40E	2-Methylnaphthalene	2.9	ug/L	0.99	06/12/24 23:16	
EPA 8270 by SIM 40E	Naphthalene	2.7	ug/L	0.99	06/12/24 23:16	
EPA 8260	Benzene	13.0	ug/L	5.0	06/15/24 04:17	
EPA 8260	n-Hexane	5.3	ug/L	5.0	06/15/24 04:17	
50375315003	**MW3**					
EPA 8270 by SIM 40E	1-Methylnaphthalene	8.2	ug/L	0.98	06/12/24 23:38	
EPA 8270 by SIM 40E	2-Methylnaphthalene	10.4	ug/L	0.98	06/12/24 23:38	
EPA 8270 by SIM 40E	Naphthalene	21.6	ug/L	0.98	06/12/24 23:38	
EPA 8260	Benzene	804	ug/L	50.0	06/18/24 06:48	
EPA 8260	Ethylbenzene	83.8	ug/L	5.0	06/15/24 05:04	
EPA 8260	n-Hexane	27.1	ug/L	5.0	06/15/24 05:04	
EPA 8260	Isopropylbenzene (Cumene)	18.1	ug/L	5.0	06/15/24 05:04	
EPA 8260	n-Propylbenzene	26.5	ug/L	5.0	06/15/24 05:04	
EPA 8260	Toluene	8.9	ug/L	5.0	06/15/24 05:04	
EPA 8260	1,2,4-Trimethylbenzene	5.4	ug/L	5.0	06/15/24 05:04	
EPA 8260	Xylene (Total)	30.6	ug/L	10.0	06/15/24 05:04	
50375315004	**MW4**					
EPA 8260	Methyl-tert-butyl ether	5.6	ug/L	4.0	06/15/24 05:27	
50375315005	**DUP**					
EPA 8270 by SIM 40E	1-Methylnaphthalene	2.5	ug/L	1.0	06/12/24 23:59	
EPA 8270 by SIM 40E	2-Methylnaphthalene	1.1	ug/L	1.0	06/12/24 23:59	
EPA 8270 by SIM 40E	Naphthalene	1.3	ug/L	1.0	06/12/24 23:59	
EPA 8260	Benzene	10.3	ug/L	5.0	06/17/24 16:48	
EPA 8260	Ethylbenzene	5.7	ug/L	5.0	06/17/24 16:48	
EPA 8260	n-Hexane	9.3	ug/L	5.0	06/17/24 16:48	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW1 **Lab ID: 50375315001** Collected: 06/07/24 11:45 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	83-32-9	
Acenaphthylene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	208-96-8	
Anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	207-08-9	
Chrysene	ND	ug/L	0.50	1	06/12/24 15:00	06/12/24 23:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	53-70-3	
Fluoranthene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	206-44-0	L1
Fluorene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:16	193-39-5	
1-Methylnaphthalene	**3.9**	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	90-12-0	
2-Methylnaphthalene	**2.9**	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	91-57-6	
Naphthalene	**2.7**	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	91-20-3	
Phenanthrene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	85-01-8	
Pyrene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:16	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	105	%.	43-129	1	06/12/24 15:00	06/12/24 23:16	321-60-8	
p-Terphenyl-d14 (S)	133	%.	64-162	1	06/12/24 15:00	06/12/24 23:16	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/15/24 04:17	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/15/24 04:17	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/15/24 04:17	107-13-1	
Benzene	**13.0**	ug/L	5.0	1		06/15/24 04:17	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/15/24 04:17	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/15/24 04:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/24 04:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/24 04:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/24 04:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/15/24 04:17	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/15/24 04:17	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/15/24 04:17	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/15/24 04:17	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/15/24 04:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/24 04:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/24 04:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/24 04:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/24 04:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/24 04:17	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 04:17	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 04:17	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/24 04:17	124-48-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW1 **Lab ID: 50375315001** Collected: 06/07/24 11:45 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/15/24 04:17	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/15/24 04:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/15/24 04:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/15/24 04:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/24 04:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/24 04:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/15/24 04:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 04:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 04:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 04:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/15/24 04:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 04:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/15/24 04:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 04:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 04:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/24 04:17	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/15/24 04:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/15/24 04:17	87-68-3	
n-Hexane	**5.3**	ug/L	5.0	1		06/15/24 04:17	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		06/15/24 04:17	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/15/24 04:17	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/15/24 04:17	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/15/24 04:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/15/24 04:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/15/24 04:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/15/24 04:17	1634-04-4	
n-Propylbenzene	ND	ug/L	5.0	1		06/15/24 04:17	103-65-1	
Styrene	ND	ug/L	5.0	1		06/15/24 04:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 04:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 04:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/24 04:17	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/24 04:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/24 04:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/24 04:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/15/24 04:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/24 04:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/15/24 04:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/15/24 04:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/15/24 04:17	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/15/24 04:17	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/15/24 04:17	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW1 **Lab ID: 50375315001** Collected: 06/07/24 11:45 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Xylene (Total)	ND	ug/L	10.0	1		06/15/24 04:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	82-128	1		06/15/24 04:17	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-124	1		06/15/24 04:17	460-00-4	
Toluene-d8 (S)	99	%.	73-122	1		06/15/24 04:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW2 **Lab ID: 50375315002** Collected: 06/07/24 12:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	83-32-9	
Acenaphthylene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	208-96-8	
Anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	207-08-9	
Chrysene	ND	ug/L	0.49	1	06/12/24 15:00	06/12/24 23:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	53-70-3	
Fluoranthene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	206-44-0	L1
Fluorene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:27	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	91-57-6	
Naphthalene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	91-20-3	
Phenanthrene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	85-01-8	
Pyrene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	103	%.	43-129	1	06/12/24 15:00	06/12/24 23:27	321-60-8	
p-Terphenyl-d14 (S)	127	%.	64-162	1	06/12/24 15:00	06/12/24 23:27	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/15/24 04:40	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/15/24 04:40	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/15/24 04:40	107-13-1	
Benzene	ND	ug/L	5.0	1		06/15/24 04:40	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/15/24 04:40	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/15/24 04:40	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/24 04:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/24 04:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/24 04:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/15/24 04:40	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/15/24 04:40	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/15/24 04:40	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/15/24 04:40	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/15/24 04:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/24 04:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/24 04:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/24 04:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/24 04:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/24 04:40	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 04:40	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 04:40	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/24 04:40	124-48-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW2 **Lab ID: 50375315002** Collected: 06/07/24 12:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/15/24 04:40	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/15/24 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/15/24 04:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/15/24 04:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/24 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/24 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/15/24 04:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 04:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 04:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/15/24 04:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 04:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/15/24 04:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 04:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 04:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/24 04:40	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/15/24 04:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/15/24 04:40	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/15/24 04:40	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		06/15/24 04:40	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/15/24 04:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/15/24 04:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/15/24 04:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/15/24 04:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/15/24 04:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/15/24 04:40	1634-04-4	
n-Propylbenzene	ND	ug/L	5.0	1		06/15/24 04:40	103-65-1	
Styrene	ND	ug/L	5.0	1		06/15/24 04:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 04:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 04:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/24 04:40	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/24 04:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 04:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/24 04:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/24 04:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/15/24 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/24 04:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/15/24 04:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/15/24 04:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/15/24 04:40	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/15/24 04:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/15/24 04:40	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW2 **Lab ID: 50375315002** Collected: 06/07/24 12:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Xylene (Total)	ND	ug/L	10.0	1		06/15/24 04:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	82-128	1		06/15/24 04:40	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-124	1		06/15/24 04:40	460-00-4	
Toluene-d8 (S)	97	%.	73-122	1		06/15/24 04:40	2037-26-5	

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW3 **Lab ID: 50375315003** Collected: 06/07/24 12:15 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	83-32-9	
Acenaphthylene	ND	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	208-96-8	
Anthracene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	207-08-9	
Chrysene	ND	ug/L	0.49	1	06/12/24 15:00	06/12/24 23:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	53-70-3	
Fluoranthene	ND	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	206-44-0	L1
Fluorene	ND	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	1	06/12/24 15:00	06/12/24 23:38	193-39-5	
1-Methylnaphthalene	**8.2**	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	90-12-0	
2-Methylnaphthalene	**10.4**	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	91-57-6	
Naphthalene	**21.6**	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	91-20-3	
Phenanthrene	ND	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	85-01-8	
Pyrene	ND	ug/L	0.98	1	06/12/24 15:00	06/12/24 23:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	101	%.	43-129	1	06/12/24 15:00	06/12/24 23:38	321-60-8	
p-Terphenyl-d14 (S)	130	%.	64-162	1	06/12/24 15:00	06/12/24 23:38	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/15/24 05:04	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/15/24 05:04	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/15/24 05:04	107-13-1	
Benzene	**804**	ug/L	50.0	10		06/18/24 06:48	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/15/24 05:04	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/15/24 05:04	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/24 05:04	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/24 05:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/24 05:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/15/24 05:04	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/15/24 05:04	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/15/24 05:04	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/15/24 05:04	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/15/24 05:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/24 05:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/24 05:04	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/24 05:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/24 05:04	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/24 05:04	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 05:04	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 05:04	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/24 05:04	124-48-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW3 **Lab ID: 50375315003** Collected: 06/07/24 12:15 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/15/24 05:04	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/15/24 05:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/15/24 05:04	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/15/24 05:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/24 05:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/24 05:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/15/24 05:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 05:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 05:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 05:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/15/24 05:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 05:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/15/24 05:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 05:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 05:04	10061-02-6	
Ethylbenzene	**83.8**	ug/L	5.0	1		06/15/24 05:04	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/15/24 05:04	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/15/24 05:04	87-68-3	
n-Hexane	**27.1**	ug/L	5.0	1		06/15/24 05:04	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		06/15/24 05:04	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/15/24 05:04	74-88-4	
Isopropylbenzene (Cumene)	**18.1**	ug/L	5.0	1		06/15/24 05:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/15/24 05:04	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/15/24 05:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/15/24 05:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/15/24 05:04	1634-04-4	
n-Propylbenzene	**26.5**	ug/L	5.0	1		06/15/24 05:04	103-65-1	
Styrene	ND	ug/L	5.0	1		06/15/24 05:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 05:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 05:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/24 05:04	127-18-4	
Toluene	**8.9**	ug/L	5.0	1		06/15/24 05:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/24 05:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/24 05:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/15/24 05:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/24 05:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/15/24 05:04	96-18-4	
1,2,4-Trimethylbenzene	**5.4**	ug/L	5.0	1		06/15/24 05:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/15/24 05:04	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/15/24 05:04	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/15/24 05:04	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW3 **Lab ID: 50375315003** Collected: 06/07/24 12:15 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Xylene (Total)	**30.6**	ug/L	10.0	1		06/15/24 05:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	82-128	1		06/15/24 05:04	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-124	1		06/15/24 05:04	460-00-4	
Toluene-d8 (S)	98	%.	73-122	1		06/15/24 05:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW4 **Lab ID: 50375315004** Collected: 06/07/24 12:30 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	83-32-9	
Acenaphthylene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	208-96-8	
Anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	207-08-9	
Chrysene	ND	ug/L	0.49	1	06/12/24 15:00	06/12/24 23:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	53-70-3	
Fluoranthene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	206-44-0	L1
Fluorene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	1	06/12/24 15:00	06/12/24 23:48	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	91-57-6	
Naphthalene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	91-20-3	
Phenanthrene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	85-01-8	
Pyrene	ND	ug/L	0.99	1	06/12/24 15:00	06/12/24 23:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	103	%.	43-129	1	06/12/24 15:00	06/12/24 23:48	321-60-8	
p-Terphenyl-d14 (S)	122	%.	64-162	1	06/12/24 15:00	06/12/24 23:48	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/15/24 05:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/15/24 05:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/15/24 05:27	107-13-1	
Benzene	ND	ug/L	5.0	1		06/15/24 05:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/15/24 05:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/15/24 05:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/15/24 05:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/15/24 05:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/15/24 05:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/15/24 05:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/15/24 05:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/15/24 05:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/15/24 05:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/15/24 05:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/15/24 05:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/15/24 05:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/15/24 05:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/15/24 05:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/15/24 05:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 05:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/15/24 05:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/15/24 05:27	124-48-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW4 **Lab ID: 50375315004** Collected: 06/07/24 12:30 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/15/24 05:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/15/24 05:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/15/24 05:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/15/24 05:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/15/24 05:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/15/24 05:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/15/24 05:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 05:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/15/24 05:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 05:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/15/24 05:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/15/24 05:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/15/24 05:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 05:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/15/24 05:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/15/24 05:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/15/24 05:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/15/24 05:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/15/24 05:27	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		06/15/24 05:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/15/24 05:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/15/24 05:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/15/24 05:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/15/24 05:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/15/24 05:27	108-10-1	
Methyl-tert-butyl ether	**5.6**	ug/L	4.0	1		06/15/24 05:27	1634-04-4	
n-Propylbenzene	ND	ug/L	5.0	1		06/15/24 05:27	103-65-1	
Styrene	ND	ug/L	5.0	1		06/15/24 05:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 05:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/15/24 05:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/15/24 05:27	127-18-4	
Toluene	ND	ug/L	5.0	1		06/15/24 05:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/15/24 05:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/15/24 05:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/15/24 05:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/15/24 05:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/15/24 05:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/15/24 05:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/15/24 05:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/15/24 05:27	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/15/24 05:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/15/24 05:27	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: MW4 **Lab ID: 50375315004** Collected: 06/07/24 12:30 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Xylene (Total)	ND	ug/L	10.0	1		06/15/24 05:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	82-128	1		06/15/24 05:27	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-124	1		06/15/24 05:27	460-00-4	
Toluene-d8 (S)	97	%.	73-122	1		06/15/24 05:27	2037-26-5	

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: DUP **Lab ID: 50375315005** Collected: 06/07/24 08:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	208-96-8	
Anthracene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	207-08-9	
Chrysene	ND	ug/L	0.50	1	06/12/24 15:00	06/12/24 23:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	206-44-0	L1
Fluorene	ND	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	06/12/24 15:00	06/12/24 23:59	193-39-5	
1-Methylnaphthalene	**2.5**	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	90-12-0	
2-Methylnaphthalene	**1.1**	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	91-57-6	
Naphthalene	**1.3**	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	85-01-8	
Pyrene	ND	ug/L	1.0	1	06/12/24 15:00	06/12/24 23:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	101	%.	43-129	1	06/12/24 15:00	06/12/24 23:59	321-60-8	
p-Terphenyl-d14 (S)	134	%.	64-162	1	06/12/24 15:00	06/12/24 23:59	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/17/24 16:48	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/24 16:48	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/24 16:48	107-13-1	
Benzene	**10.3**	ug/L	5.0	1		06/17/24 16:48	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/24 16:48	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/24 16:48	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/24 16:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/24 16:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/24 16:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/24 16:48	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/24 16:48	104-51-8	R1
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/24 16:48	135-98-8	R1
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/24 16:48	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/24 16:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/24 16:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/24 16:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/24 16:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/24 16:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/24 16:48	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/24 16:48	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/24 16:48	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/24 16:48	124-48-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: DUP **Lab ID: 50375315005** Collected: 06/07/24 08:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/24 16:48	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/24 16:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/24 16:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/24 16:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/24 16:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/24 16:48	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/24 16:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/24 16:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/24 16:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/24 16:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/24 16:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/24 16:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/24 16:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/24 16:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/24 16:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/24 16:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/24 16:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/24 16:48	10061-02-6	
Ethylbenzene	**5.7**	ug/L	5.0	1		06/17/24 16:48	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/24 16:48	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/24 16:48	87-68-3	R1
n-Hexane	**9.3**	ug/L	5.0	1		06/17/24 16:48	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		06/17/24 16:48	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/24 16:48	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/24 16:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/24 16:48	99-87-6	R1
Methylene Chloride	ND	ug/L	5.0	1		06/17/24 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/24 16:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/24 16:48	1634-04-4	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/24 16:48	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/24 16:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/24 16:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/24 16:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/24 16:48	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/24 16:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/24 16:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/24 16:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/24 16:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/24 16:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/24 16:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/24 16:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/24 16:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/24 16:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/24 16:48	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/24 16:48	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/24 16:48	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: DUP **Lab ID: 50375315005** Collected: 06/07/24 08:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Xylene (Total)	ND	ug/L	10.0	1		06/17/24 16:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	1		06/17/24 16:48	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-124	1		06/17/24 16:48	460-00-4	
Toluene-d8 (S)	99	%.	73-122	1		06/17/24 16:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: Trip Blank **Lab ID: 50375315006** Collected: 06/07/24 07:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		06/17/24 17:12	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/17/24 17:12	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/17/24 17:12	107-13-1	
Benzene	ND	ug/L	5.0	1		06/17/24 17:12	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/17/24 17:12	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/17/24 17:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/17/24 17:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/17/24 17:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/17/24 17:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/17/24 17:12	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/17/24 17:12	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/17/24 17:12	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/17/24 17:12	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/17/24 17:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/17/24 17:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/17/24 17:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/17/24 17:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/17/24 17:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/17/24 17:12	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/17/24 17:12	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/17/24 17:12	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/17/24 17:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/17/24 17:12	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/17/24 17:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/17/24 17:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/17/24 17:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/17/24 17:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/17/24 17:12	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/17/24 17:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/17/24 17:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/17/24 17:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/17/24 17:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/24 17:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/17/24 17:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/17/24 17:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/17/24 17:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/17/24 17:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/17/24 17:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/24 17:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/17/24 17:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/17/24 17:12	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/17/24 17:12	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/17/24 17:12	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/17/24 17:12	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		06/17/24 17:12	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/17/24 17:12	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: CK 42
Pace Project No.: 50375315

Sample: Trip Blank **Lab ID: 50375315006** Collected: 06/07/24 07:00 Received: 06/07/24 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/17/24 17:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		06/17/24 17:12	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/17/24 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/17/24 17:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/17/24 17:12	1634-04-4	
n-Propylbenzene	ND	ug/L	5.0	1		06/17/24 17:12	103-65-1	
Styrene	ND	ug/L	5.0	1		06/17/24 17:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/24 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/17/24 17:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/17/24 17:12	127-18-4	
Toluene	ND	ug/L	5.0	1		06/17/24 17:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/17/24 17:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/17/24 17:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/17/24 17:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/17/24 17:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/17/24 17:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/17/24 17:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/17/24 17:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/17/24 17:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/17/24 17:12	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/17/24 17:12	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/17/24 17:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/17/24 17:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	82-128	1		06/17/24 17:12	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-124	1		06/17/24 17:12	460-00-4	
Toluene-d8 (S)	98	%.	73-122	1		06/17/24 17:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

QC Batch: 795864
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50375315001, 50375315002, 50375315003, 50375315004

METHOD BLANK: 3641685 Matrix: Water
Associated Lab Samples: 50375315001, 50375315002, 50375315003, 50375315004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/14/24 21:36	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/14/24 21:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/14/24 21:36	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/14/24 21:36	
1,1-Dichloroethane	ug/L	ND	5.0	06/14/24 21:36	
1,1-Dichloroethene	ug/L	ND	5.0	06/14/24 21:36	
1,1-Dichloropropene	ug/L	ND	5.0	06/14/24 21:36	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/14/24 21:36	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/14/24 21:36	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/14/24 21:36	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/14/24 21:36	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/14/24 21:36	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/14/24 21:36	
1,2-Dichloroethane	ug/L	ND	5.0	06/14/24 21:36	
1,2-Dichloropropane	ug/L	ND	5.0	06/14/24 21:36	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/14/24 21:36	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/14/24 21:36	
1,3-Dichloropropane	ug/L	ND	5.0	06/14/24 21:36	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/14/24 21:36	
2,2-Dichloropropane	ug/L	ND	5.0	06/14/24 21:36	
2-Butanone (MEK)	ug/L	ND	25.0	06/14/24 21:36	
2-Chlorotoluene	ug/L	ND	5.0	06/14/24 21:36	
2-Hexanone	ug/L	ND	25.0	06/14/24 21:36	
4-Chlorotoluene	ug/L	ND	5.0	06/14/24 21:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/14/24 21:36	
Acetone	ug/L	ND	100	06/14/24 21:36	
Acrolein	ug/L	ND	50.0	06/14/24 21:36	
Acrylonitrile	ug/L	ND	100	06/14/24 21:36	
Benzene	ug/L	ND	5.0	06/14/24 21:36	
Bromobenzene	ug/L	ND	5.0	06/14/24 21:36	
Bromochloromethane	ug/L	ND	5.0	06/14/24 21:36	
Bromodichloromethane	ug/L	ND	5.0	06/14/24 21:36	
Bromoform	ug/L	ND	5.0	06/14/24 21:36	
Bromomethane	ug/L	ND	5.0	06/14/24 21:36	
Carbon disulfide	ug/L	ND	10.0	06/14/24 21:36	
Carbon tetrachloride	ug/L	ND	5.0	06/14/24 21:36	
Chlorobenzene	ug/L	ND	5.0	06/14/24 21:36	
Chloroethane	ug/L	ND	5.0	06/14/24 21:36	
Chloroform	ug/L	ND	5.0	06/14/24 21:36	
Chloromethane	ug/L	ND	5.0	06/14/24 21:36	

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

METHOD BLANK: 3641685 Matrix: Water
Associated Lab Samples: 50375315001, 50375315002, 50375315003, 50375315004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/14/24 21:36	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/14/24 21:36	
Dibromochloromethane	ug/L	ND	5.0	06/14/24 21:36	
Dibromomethane	ug/L	ND	5.0	06/14/24 21:36	
Dichlorodifluoromethane	ug/L	ND	5.0	06/14/24 21:36	
Ethyl methacrylate	ug/L	ND	100	06/14/24 21:36	
Ethylbenzene	ug/L	ND	5.0	06/14/24 21:36	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/14/24 21:36	
Iodomethane	ug/L	ND	10.0	06/14/24 21:36	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/14/24 21:36	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/14/24 21:36	
Methylene Chloride	ug/L	ND	5.0	06/14/24 21:36	
n-Butylbenzene	ug/L	ND	5.0	06/14/24 21:36	
n-Hexane	ug/L	ND	5.0	06/14/24 21:36	
n-Propylbenzene	ug/L	ND	5.0	06/14/24 21:36	
p-Isopropyltoluene	ug/L	ND	5.0	06/14/24 21:36	
sec-Butylbenzene	ug/L	ND	5.0	06/14/24 21:36	
Styrene	ug/L	ND	5.0	06/14/24 21:36	
tert-Butylbenzene	ug/L	ND	5.0	06/14/24 21:36	
Tetrachloroethene	ug/L	ND	5.0	06/14/24 21:36	
Toluene	ug/L	ND	5.0	06/14/24 21:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/14/24 21:36	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/14/24 21:36	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/14/24 21:36	
Trichloroethene	ug/L	ND	5.0	06/14/24 21:36	
Trichlorofluoromethane	ug/L	ND	5.0	06/14/24 21:36	
Vinyl acetate	ug/L	ND	50.0	06/14/24 21:36	
Vinyl chloride	ug/L	ND	2.0	06/14/24 21:36	
Xylene (Total)	ug/L	ND	10.0	06/14/24 21:36	
4-Bromofluorobenzene (S)	%.	103	79-124	06/14/24 21:36	
Dibromofluoromethane (S)	%.	100	82-128	06/14/24 21:36	
Toluene-d8 (S)	%.	98	73-122	06/14/24 21:36	

LABORATORY CONTROL SAMPLE: 3641686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.6	109	81-130	
1,1,1-Trichloroethane	ug/L	50	57.7	115	71-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	70-126	
1,1,2-Trichloroethane	ug/L	50	53.9	108	79-125	
1,1-Dichloroethane	ug/L	50	52.3	105	79-120	
1,1-Dichloroethene	ug/L	50	51.8	104	71-130	
1,1-Dichloropropene	ug/L	50	59.5	119	78-144	
1,2,3-Trichlorobenzene	ug/L	50	49.6	99	57-146	

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

LABORATORY CONTROL SAMPLE: 3641686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	51.2	102	74-127	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	62-136	
1,2,4-Trimethylbenzene	ug/L	50	53.8	108	69-120	
1,2-Dibromoethane (EDB)	ug/L	50	55.3	111	80-120	
1,2-Dichlorobenzene	ug/L	50	51.4	103	79-123	
1,2-Dichloroethane	ug/L	50	52.7	105	72-123	
1,2-Dichloropropane	ug/L	50	53.3	107	76-125	
1,3,5-Trimethylbenzene	ug/L	50	53.3	107	71-120	
1,3-Dichlorobenzene	ug/L	50	51.5	103	78-117	
1,3-Dichloropropane	ug/L	50	53.4	107	77-126	
1,4-Dichlorobenzene	ug/L	50	51.4	103	79-116	
2,2-Dichloropropane	ug/L	50	56.1	112	48-138	
2-Butanone (MEK)	ug/L	250	269	108	67-135	
2-Chlorotoluene	ug/L	50	52.3	105	75-122	
2-Hexanone	ug/L	250	257	103	65-135	
4-Chlorotoluene	ug/L	50	51.8	104	77-120	
4-Methyl-2-pentanone (MIBK)	ug/L	250	266	106	69-136	
Acetone	ug/L	250	233	93	34-156	
Acrolein	ug/L	1000	870	87	59-191	
Acrylonitrile	ug/L	250	269	107	67-146	
Benzene	ug/L	50	54.0	108	76-122	
Bromobenzene	ug/L	50	53.0	106	75-121	
Bromochloromethane	ug/L	50	51.6	103	73-119	
Bromodichloromethane	ug/L	50	55.4	111	80-126	
Bromoform	ug/L	50	51.8	104	77-124	
Bromomethane	ug/L	50	55.3	111	10-175	
Carbon disulfide	ug/L	50	49.9	100	69-121	
Carbon tetrachloride	ug/L	50	55.7	111	73-127	
Chlorobenzene	ug/L	50	53.5	107	76-118	
Chloroethane	ug/L	50	47.3	95	36-162	
Chloroform	ug/L	50	54.1	108	78-121	
Chloromethane	ug/L	50	36.0	72	37-143	
cis-1,2-Dichloroethene	ug/L	50	54.6	109	77-123	
cis-1,3-Dichloropropene	ug/L	50	56.8	114	76-132	
Dibromochloromethane	ug/L	50	54.8	110	79-130	
Dibromomethane	ug/L	50	52.9	106	79-124	
Dichlorodifluoromethane	ug/L	50	23.5	47	29-126	
Ethyl methacrylate	ug/L	50	59.1J	118	78-137	
Ethylbenzene	ug/L	50	56.7	113	76-120	
Hexachloro-1,3-butadiene	ug/L	50	51.3	103	60-131	
Iodomethane	ug/L	50	37.5	75	10-148	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	71-124	
Methyl-tert-butyl ether	ug/L	50	55.2	110	71-121	
Methylene Chloride	ug/L	50	50.7	101	71-121	
n-Butylbenzene	ug/L	50	54.3	109	68-131	
n-Hexane	ug/L	50	37.6	75	51-126	
n-Propylbenzene	ug/L	50	55.2	110	67-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

LABORATORY CONTROL SAMPLE: 3641686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	54.3	109	72-124	
sec-Butylbenzene	ug/L	50	55.7	111	71-126	
Styrene	ug/L	50	54.2	108	80-121	
tert-Butylbenzene	ug/L	50	53.6	107	71-128	
Tetrachloroethene	ug/L	50	55.8	112	71-122	
Toluene	ug/L	50	53.0	106	74-118	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	75-122	
trans-1,3-Dichloropropene	ug/L	50	56.6	113	77-126	
trans-1,4-Dichloro-2-butene	ug/L	50	52.4J	105	53-136	
Trichloroethene	ug/L	50	54.6	109	74-125	
Trichlorofluoromethane	ug/L	50	48.9	98	64-138	
Vinyl acetate	ug/L	200	223	111	74-154	
Vinyl chloride	ug/L	50	47.7	95	55-139	
Xylene (Total)	ug/L	150	163	108	73-119	
4-Bromofluorobenzene (S)	%.			102	79-124	
Dibromofluoromethane (S)	%.			99	82-128	
Toluene-d8 (S)	%.			99	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641687 3641688

Parameter	Units	60454517003 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	47.3	46.9	95	94	47-139	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	53.4	53.6	106	106	47-145	0	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.2	47.3	96	95	49-133	2	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.7	51.5	103	103	52-136	0	20	
1,1-Dichloroethane	ug/L	ND	50	50	50.6	50.2	101	100	52-137	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	50.4	51.2	97	98	53-144	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	52.0	51.8	104	104	49-150	0	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	33.2	30.2	66	60	20-153	10	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	50.2	50.7	100	101	47-134	1	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	29.7	26.4	59	53	23-141	12	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	32.3	29.3	65	59	41-131	10	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.6	52.4	105	105	55-133	0	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	36.9	34.5	74	69	43-133	7	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.6	50.7	101	101	50-138	0	20	
1,2-Dichloropropane	ug/L	ND	50	50	50.2	49.9	100	100	54-139	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	32.1	29.3	64	59	39-133	9	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	34.0	30.9	68	62	41-131	9	20	
1,3-Dichloropropane	ug/L	ND	50	50	51.3	50.4	103	101	50-136	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	33.6	30.5	67	61	41-131	10	20	
2,2-Dichloropropane	ug/L	ND	50	50	50.2	50.6	100	101	17-141	1	20	
2-Butanone (MEK)	ug/L	ND	250	250	257	269	103	108	45-138	4	20	
2-Chlorotoluene	ug/L	ND	50	50	35.1	32.7	70	65	36-141	7	20	
2-Hexanone	ug/L	ND	250	250	253	253	101	101	45-135	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641687 3641688

Parameter	Units	60454517003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorotoluene	ug/L	ND	50	50	33.5	30.7	67	61	38-134	9	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	261	262	104	105	46-138	0	20	
Acetone	ug/L	ND	250	250	228	232	91	93	25-151	2	20	
Acrolein	ug/L	ND	1000	1000	762	770	76	77	36-168	1	20	
Acrylonitrile	ug/L	ND	250	250	262	266	105	106	47-147	2	20	
Benzene	ug/L	ND	50	50	49.9	49.4	100	99	53-138	1	20	
Bromobenzene	ug/L	ND	50	50	41.8	40.3	84	81	47-130	4	20	
Bromochloromethane	ug/L	ND	50	50	49.9	49.0	100	98	52-130	2	20	
Bromodichloromethane	ug/L	ND	50	50	51.8	51.7	104	103	50-146	0	20	
Bromoform	ug/L	ND	50	50	47.6	47.3	95	95	45-132	1	20	
Bromomethane	ug/L	ND	50	50	55.2	56.6	110	113	10-173	2	20	
Carbon disulfide	ug/L	ND	50	50	44.7	43.8	89	88	47-133	2	20	
Carbon tetrachloride	ug/L	ND	50	50	49.7	50.2	99	100	43-148	1	20	
Chlorobenzene	ug/L	ND	50	50	41.7	40.7	83	81	52-131	2	20	
Chloroethane	ug/L	ND	50	50	45.4	44.9	91	90	25-169	1	20	
Chloroform	ug/L	ND	50	50	51.0	51.3	102	103	54-138	1	20	
Chloromethane	ug/L	ND	50	50	34.6	35.0	69	70	33-137	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.8	50.5	100	101	50-141	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	49.9	49.6	100	99	47-135	1	20	
Dibromochloromethane	ug/L	ND	50	50	50.8	50.6	102	101	48-139	0	20	
Dibromomethane	ug/L	ND	50	50	50.5	51.6	101	103	51-141	2	20	
Dichlorodifluoromethane	ug/L	ND	50	50	23.3	22.7	47	45	15-130	3	20	
Ethyl methacrylate	ug/L	ND	50	50	54.9J	55.3J	110	111	51-142		20	
Ethylbenzene	ug/L	ND	50	50	41.1	39.5	82	79	50-136	4	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	19.0	14.2	38	28	15-141	29	20	R1
Iodomethane	ug/L	ND	50	50	42.5	42.9	85	86	10-145	1	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	33.2	32.0	66	64	46-137	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	54.1	54.6	108	109	47-135	1	20	
Methylene Chloride	ug/L	ND	50	50	46.0	45.6	92	91	48-131	1	20	
n-Butylbenzene	ug/L	ND	50	50	24.4	20.2	49	40	30-138	18	20	
n-Hexane	ug/L	ND	50	50	33.9	33.8	68	68	35-137	0	20	
n-Propylbenzene	ug/L	ND	50	50	32.3	29.4	65	59	37-135	9	20	
p-Isopropyltoluene	ug/L	ND	50	50	27.8	24.3	56	49	35-136	14	20	
sec-Butylbenzene	ug/L	ND	50	50	30.2	27.1	60	54	36-137	11	20	
Styrene	ug/L	ND	50	50	39.5	38.5	79	77	46-136	3	20	
tert-Butylbenzene	ug/L	ND	50	50	32.3	30.0	65	60	40-137	7	20	
Tetrachloroethene	ug/L	ND	50	50	43.0	42.5	81	80	44-138	1	20	
Toluene	ug/L	ND	50	50	43.4	43.3	87	87	52-132	0	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	47.5	47.2	95	94	50-137	1	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	48.7	48.3	97	97	46-130	1	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	47.7J	47.6J	95	95	24-134		20	
Trichloroethene	ug/L	ND	50	50	46.2	46.1	92	92	49-140	0	20	
Trichlorofluoromethane	ug/L	ND	50	50	47.1	45.8	94	92	44-153	3	20	
Vinyl acetate	ug/L	ND	200	200	173	172	86	86	32-142	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3641687 3641688

Parameter	Units	60454517003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	ND	50	50	46.9	45.8	94	92	41-147	2	20	
Xylene (Total)	ug/L	ND	150	150	116	111	77	74	44-138	4	20	
4-Bromofluorobenzene (S)	%.						102	103	79-124			
Dibromofluoromethane (S)	%.						97	98	82-128			
Toluene-d8 (S)	%.						98	98	73-122			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

QC Batch: 796088
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50375315005, 50375315006

METHOD BLANK: 3642874 Matrix: Water
Associated Lab Samples: 50375315005, 50375315006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/17/24 10:32	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/17/24 10:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/17/24 10:32	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/17/24 10:32	
1,1-Dichloroethane	ug/L	ND	5.0	06/17/24 10:32	
1,1-Dichloroethene	ug/L	ND	5.0	06/17/24 10:32	
1,1-Dichloropropene	ug/L	ND	5.0	06/17/24 10:32	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/17/24 10:32	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/17/24 10:32	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/17/24 10:32	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/17/24 10:32	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/17/24 10:32	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/17/24 10:32	
1,2-Dichloroethane	ug/L	ND	5.0	06/17/24 10:32	
1,2-Dichloropropane	ug/L	ND	5.0	06/17/24 10:32	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/17/24 10:32	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/17/24 10:32	
1,3-Dichloropropane	ug/L	ND	5.0	06/17/24 10:32	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/17/24 10:32	
2,2-Dichloropropane	ug/L	ND	5.0	06/17/24 10:32	
2-Butanone (MEK)	ug/L	ND	25.0	06/17/24 10:32	
2-Chlorotoluene	ug/L	ND	5.0	06/17/24 10:32	
2-Hexanone	ug/L	ND	25.0	06/17/24 10:32	
4-Chlorotoluene	ug/L	ND	5.0	06/17/24 10:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/17/24 10:32	
Acetone	ug/L	ND	100	06/17/24 10:32	
Acrolein	ug/L	ND	50.0	06/17/24 10:32	
Acrylonitrile	ug/L	ND	100	06/17/24 10:32	
Benzene	ug/L	ND	5.0	06/17/24 10:32	
Bromobenzene	ug/L	ND	5.0	06/17/24 10:32	
Bromochloromethane	ug/L	ND	5.0	06/17/24 10:32	
Bromodichloromethane	ug/L	ND	5.0	06/17/24 10:32	
Bromoform	ug/L	ND	5.0	06/17/24 10:32	
Bromomethane	ug/L	ND	5.0	06/17/24 10:32	
Carbon disulfide	ug/L	ND	10.0	06/17/24 10:32	
Carbon tetrachloride	ug/L	ND	5.0	06/17/24 10:32	
Chlorobenzene	ug/L	ND	5.0	06/17/24 10:32	
Chloroethane	ug/L	ND	5.0	06/17/24 10:32	
Chloroform	ug/L	ND	5.0	06/17/24 10:32	
Chloromethane	ug/L	ND	5.0	06/17/24 10:32	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

METHOD BLANK: 3642874 Matrix: Water
Associated Lab Samples: 50375315005, 50375315006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/17/24 10:32	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/17/24 10:32	
Dibromochloromethane	ug/L	ND	5.0	06/17/24 10:32	
Dibromomethane	ug/L	ND	5.0	06/17/24 10:32	
Dichlorodifluoromethane	ug/L	ND	5.0	06/17/24 10:32	
Ethyl methacrylate	ug/L	ND	100	06/17/24 10:32	
Ethylbenzene	ug/L	ND	5.0	06/17/24 10:32	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/17/24 10:32	
Iodomethane	ug/L	ND	10.0	06/17/24 10:32	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/17/24 10:32	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/17/24 10:32	
Methylene Chloride	ug/L	ND	5.0	06/17/24 10:32	
n-Butylbenzene	ug/L	ND	5.0	06/17/24 10:32	
n-Hexane	ug/L	ND	5.0	06/17/24 10:32	
n-Propylbenzene	ug/L	ND	5.0	06/17/24 10:32	
p-Isopropyltoluene	ug/L	ND	5.0	06/17/24 10:32	
sec-Butylbenzene	ug/L	ND	5.0	06/17/24 10:32	
Styrene	ug/L	ND	5.0	06/17/24 10:32	
tert-Butylbenzene	ug/L	ND	5.0	06/17/24 10:32	
Tetrachloroethene	ug/L	ND	5.0	06/17/24 10:32	
Toluene	ug/L	ND	5.0	06/17/24 10:32	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/17/24 10:32	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/17/24 10:32	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/17/24 10:32	
Trichloroethene	ug/L	ND	5.0	06/17/24 10:32	
Trichlorofluoromethane	ug/L	ND	5.0	06/17/24 10:32	
Vinyl acetate	ug/L	ND	50.0	06/17/24 10:32	
Vinyl chloride	ug/L	ND	2.0	06/17/24 10:32	
Xylene (Total)	ug/L	ND	10.0	06/17/24 10:32	
4-Bromofluorobenzene (S)	%.	100	79-124	06/17/24 10:32	
Dibromofluoromethane (S)	%.	103	82-128	06/17/24 10:32	
Toluene-d8 (S)	%.	98	73-122	06/17/24 10:32	

LABORATORY CONTROL SAMPLE: 3642875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.8	116	81-130	
1,1,1-Trichloroethane	ug/L	50	59.0	118	71-126	
1,1,2,2-Tetrachloroethane	ug/L	50	51.1	102	70-126	
1,1,2-Trichloroethane	ug/L	50	53.6	107	79-125	
1,1-Dichloroethane	ug/L	50	53.4	107	79-120	
1,1-Dichloroethene	ug/L	50	53.3	107	71-130	
1,1-Dichloropropene	ug/L	50	60.2	120	78-144	
1,2,3-Trichlorobenzene	ug/L	50	53.4	107	57-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

LABORATORY CONTROL SAMPLE: 3642875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	54.5	109	74-127	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	62-136	
1,2,4-Trimethylbenzene	ug/L	50	55.2	110	69-120	
1,2-Dibromoethane (EDB)	ug/L	50	57.0	114	80-120	
1,2-Dichlorobenzene	ug/L	50	53.4	107	79-123	
1,2-Dichloroethane	ug/L	50	52.9	106	72-123	
1,2-Dichloropropane	ug/L	50	52.6	105	76-125	
1,3,5-Trimethylbenzene	ug/L	50	55.0	110	71-120	
1,3-Dichlorobenzene	ug/L	50	54.6	109	78-117	
1,3-Dichloropropane	ug/L	50	53.2	106	77-126	
1,4-Dichlorobenzene	ug/L	50	54.2	108	79-116	
2,2-Dichloropropane	ug/L	50	55.3	111	48-138	
2-Butanone (MEK)	ug/L	250	246	98	67-135	
2-Chlorotoluene	ug/L	50	54.3	109	75-122	
2-Hexanone	ug/L	250	243	97	65-135	
4-Chlorotoluene	ug/L	50	54.3	109	77-120	
4-Methyl-2-pentanone (MIBK)	ug/L	250	251	100	69-136	
Acetone	ug/L	250	231	92	34-156	
Acrolein	ug/L	1000	909	91	59-191	
Acrylonitrile	ug/L	250	260	104	67-146	
Benzene	ug/L	50	54.4	109	76-122	
Bromobenzene	ug/L	50	52.7	105	75-121	
Bromochloromethane	ug/L	50	49.9	100	73-119	
Bromodichloromethane	ug/L	50	57.3	115	80-126	
Bromoform	ug/L	50	58.4	117	77-124	
Bromomethane	ug/L	50	63.1	126	10-175	
Carbon disulfide	ug/L	50	51.2	102	69-121	
Carbon tetrachloride	ug/L	50	59.6	119	73-127	
Chlorobenzene	ug/L	50	53.8	108	76-118	
Chloroethane	ug/L	50	48.6	97	36-162	
Chloroform	ug/L	50	54.6	109	78-121	
Chloromethane	ug/L	50	34.7	69	37-143	
cis-1,2-Dichloroethene	ug/L	50	55.5	111	77-123	
cis-1,3-Dichloropropene	ug/L	50	58.1	116	76-132	
Dibromochloromethane	ug/L	50	58.8	118	79-130	
Dibromomethane	ug/L	50	54.1	108	79-124	
Dichlorodifluoromethane	ug/L	50	22.0	44	29-126	
Ethyl methacrylate	ug/L	50	53.1J	106	78-137	
Ethylbenzene	ug/L	50	57.8	116	76-120	
Hexachloro-1,3-butadiene	ug/L	50	53.9	108	60-131	
Iodomethane	ug/L	50	47.6	95	10-148	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	71-124	
Methyl-tert-butyl ether	ug/L	50	54.2	108	71-121	
Methylene Chloride	ug/L	50	48.3	97	71-121	
n-Butylbenzene	ug/L	50	57.4	115	68-131	
n-Hexane	ug/L	50	36.7	73	51-126	
n-Propylbenzene	ug/L	50	57.0	114	67-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

LABORATORY CONTROL SAMPLE: 3642875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	56.3	113	72-124	
sec-Butylbenzene	ug/L	50	56.8	114	71-126	
Styrene	ug/L	50	55.4	111	80-121	
tert-Butylbenzene	ug/L	50	54.5	109	71-128	
Tetrachloroethene	ug/L	50	57.9	116	71-122	
Toluene	ug/L	50	53.0	106	74-118	
trans-1,2-Dichloroethene	ug/L	50	54.9	110	75-122	
trans-1,3-Dichloropropene	ug/L	50	56.8	114	77-126	
trans-1,4-Dichloro-2-butene	ug/L	50	53.2J	106	53-136	
Trichloroethene	ug/L	50	56.5	113	74-125	
Trichlorofluoromethane	ug/L	50	48.6	97	64-138	
Vinyl acetate	ug/L	200	204	102	74-154	
Vinyl chloride	ug/L	50	47.0	94	55-139	
Xylene (Total)	ug/L	150	164	109	73-119	
4-Bromofluorobenzene (S)	%.			102	79-124	
Dibromofluoromethane (S)	%.			101	82-128	
Toluene-d8 (S)	%.			98	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3642876 3642877

Parameter	Units	50375315005 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	52.4	54.8	105	110	47-139	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.4	58.0	111	116	47-145	5	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.7	51.5	99	103	49-133	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	54.7	55.7	109	111	52-136	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	51.2	51.8	102	104	52-137	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	52.0	52.6	104	105	53-144	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	55.7	58.7	111	117	49-150	5	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	41.2	45.7	82	91	20-153	10	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	52.2	52.2	104	104	47-134	0	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	38.2	43.2	76	86	23-141	12	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	42.5	50.6	81	97	41-131	17	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	53.7	55.1	107	110	55-133	3	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	42.3	48.4	85	97	43-133	14	20	
1,2-Dichloroethane	ug/L	ND	50	50	52.8	53.2	106	106	50-138	1	20	
1,2-Dichloropropane	ug/L	ND	50	50	51.4	53.9	103	108	54-139	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	41.3	49.9	80	97	39-133	19	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	41.0	47.7	82	95	41-131	15	20	
1,3-Dichloropropane	ug/L	ND	50	50	52.0	53.2	104	106	50-136	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	40.6	47.2	81	94	41-131	15	20	
2,2-Dichloropropane	ug/L	ND	50	50	51.8	53.9	104	108	17-141	4	20	
2-Butanone (MEK)	ug/L	ND	250	250	258	259	103	104	45-138	1	20	
2-Chlorotoluene	ug/L	ND	50	50	42.1	49.0	84	98	36-141	15	20	
2-Hexanone	ug/L	ND	250	250	251	251	100	100	45-135	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3642876 3642877

Parameter	Units	50375315005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorotoluene	ug/L	ND	50	50	41.2	48.1	82	96	38-134	15	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	265	265	106	106	46-138	0	20	
Acetone	ug/L	ND	250	250	234	236	94	94	25-151	1	20	
Acrolein	ug/L	ND	1000	1000	830	830	83	83	36-168	0	20	
Acrylonitrile	ug/L	ND	250	250	265	265	106	106	47-147	0	20	
Benzene	ug/L	10.3	50	50	61.3	63.9	102	107	53-138	4	20	
Bromobenzene	ug/L	ND	50	50	46.4	50.2	93	100	47-130	8	20	
Bromochloromethane	ug/L	ND	50	50	50.8	50.6	102	101	52-130	0	20	
Bromodichloromethane	ug/L	ND	50	50	54.8	56.2	110	112	50-146	2	20	
Bromoform	ug/L	ND	50	50	52.6	55.1	105	110	45-132	5	20	
Bromomethane	ug/L	ND	50	50	38.9	47.5	78	95	10-173	20	20	
Carbon disulfide	ug/L	ND	50	50	48.4	50.2	97	100	47-133	4	20	
Carbon tetrachloride	ug/L	ND	50	50	55.0	56.9	110	114	43-148	3	20	
Chlorobenzene	ug/L	ND	50	50	46.6	50.9	93	102	52-131	9	20	
Chloroethane	ug/L	ND	50	50	48.1	47.3	96	95	25-169	2	20	
Chloroform	ug/L	ND	50	50	52.4	54.7	105	109	54-138	4	20	
Chloromethane	ug/L	ND	50	50	28.7	31.4	57	63	33-137	9	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.5	54.6	105	109	50-141	4	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.1	55.2	106	110	47-135	4	20	
Dibromochloromethane	ug/L	ND	50	50	55.4	57.2	111	114	48-139	3	20	
Dibromomethane	ug/L	ND	50	50	51.6	54.1	103	108	51-141	5	20	
Dichlorodifluoromethane	ug/L	ND	50	50	20.9	21.1	42	42	15-130	1	20	
Ethyl methacrylate	ug/L	ND	50	50	57.2J	59.3J	114	119	51-142		20	
Ethylbenzene	ug/L	5.7	50	50	53.4	59.1	95	107	50-136	10	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	30.2	40.4	60	81	15-141	29	20	R1
Iodomethane	ug/L	ND	50	50	29.0	35.6	58	71	10-145	20	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	43.1	49.4	82	94	46-137	14	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	54.2	55.5	108	111	47-135	2	20	
Methylene Chloride	ug/L	ND	50	50	52.3	51.2	105	102	48-131	2	20	
n-Butylbenzene	ug/L	ND	50	50	35.6	46.4	70	91	30-138	26	20	R1
n-Hexane	ug/L	9.3	50	50	39.9	40.8	61	63	35-137	2	20	
n-Propylbenzene	ug/L	ND	50	50	41.9	50.7	82	99	37-135	19	20	
p-Isopropyltoluene	ug/L	ND	50	50	39.9	49.9	77	97	35-136	22	20	R1
sec-Butylbenzene	ug/L	ND	50	50	40.4	49.8	80	99	36-137	21	20	R1
Styrene	ug/L	ND	50	50	46.7	51.8	93	104	46-136	10	20	
tert-Butylbenzene	ug/L	ND	50	50	41.4	49.7	83	99	40-137	18	20	
Tetrachloroethene	ug/L	ND	50	50	48.7	53.7	97	107	44-138	10	20	
Toluene	ug/L	ND	50	50	50.7	53.6	96	102	52-132	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	51.9	53.2	104	106	50-137	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	51.5	53.8	103	108	46-130	4	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	49.2J	51J	98	102	24-134		20	
Trichloroethene	ug/L	ND	50	50	51.5	54.2	103	108	49-140	5	20	
Trichlorofluoromethane	ug/L	ND	50	50	48.0	48.8	96	98	44-153	2	20	
Vinyl acetate	ug/L	ND	200	200	187	190	93	95	32-142	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3642876 3642877

Parameter	Units	50375315005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	ND	50	50	45.4	46.3	91	93	41-147	2	20	
Xylene (Total)	ug/L	ND	150	150	142	159	95	106	44-138	11	20	
4-Bromofluorobenzene (S)	%.						101	103	79-124			
Dibromofluoromethane (S)	%.						102	101	82-128			
Toluene-d8 (S)	%.						102	100	73-122			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

QC Batch: 795202
QC Batch Method: EPA 3511
Analysis Method: EPA 8270 by SIM 40E
Analysis Description: 8270 Water PAH 40 by SIM MSSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50375315001, 50375315002, 50375315003, 50375315004, 50375315005

METHOD BLANK: 3638306 Matrix: Water
Associated Lab Samples: 50375315001, 50375315002, 50375315003, 50375315004, 50375315005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	06/12/24 20:41	
2-Methylnaphthalene	ug/L	ND	1.0	06/12/24 20:41	
Acenaphthene	ug/L	ND	1.0	06/12/24 20:41	
Acenaphthylene	ug/L	ND	1.0	06/12/24 20:41	
Anthracene	ug/L	ND	0.10	06/12/24 20:41	
Benzo(a)anthracene	ug/L	ND	0.10	06/12/24 20:41	
Benzo(a)pyrene	ug/L	ND	0.10	06/12/24 20:41	
Benzo(b)fluoranthene	ug/L	ND	0.10	06/12/24 20:41	
Benzo(g,h,i)perylene	ug/L	ND	0.10	06/12/24 20:41	
Benzo(k)fluoranthene	ug/L	ND	0.10	06/12/24 20:41	
Chrysene	ug/L	ND	0.50	06/12/24 20:41	
Dibenz(a,h)anthracene	ug/L	ND	0.10	06/12/24 20:41	
Fluoranthene	ug/L	ND	1.0	06/12/24 20:41	
Fluorene	ug/L	ND	1.0	06/12/24 20:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	06/12/24 20:41	
Naphthalene	ug/L	ND	1.0	06/12/24 20:41	
Phenanthrene	ug/L	ND	1.0	06/12/24 20:41	
Pyrene	ug/L	ND	1.0	06/12/24 20:41	
2-Fluorobiphenyl (S)	%.	105	43-129	06/12/24 20:41	
p-Terphenyl-d14 (S)	%.	131	64-162	06/12/24 20:41	

LABORATORY CONTROL SAMPLE: 3638307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	25	24.6	98	55-123	
2-Methylnaphthalene	ug/L	25	20.0	80	49-116	
Acenaphthene	ug/L	25	24.7	99	65-121	
Acenaphthylene	ug/L	25	32.1	128	57-131	
Anthracene	ug/L	25	30.3	121	45-133	
Benzo(a)anthracene	ug/L	25	35.2	141	74-147	
Benzo(a)pyrene	ug/L	25	31.6	127	79-132	
Benzo(b)fluoranthene	ug/L	25	31.1	124	80-157	
Benzo(g,h,i)perylene	ug/L	25	29.2	117	70-131	
Benzo(k)fluoranthene	ug/L	25	30.7	123	71-158	
Chrysene	ug/L	25	33.5	134	65-135	
Dibenz(a,h)anthracene	ug/L	25	31.9	128	75-141	
Fluoranthene	ug/L	25	38.8	155	85-139	L1
Fluorene	ug/L	25	28.7	115	74-129	
Indeno(1,2,3-cd)pyrene	ug/L	25	30.2	121	65-133	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

LABORATORY CONTROL SAMPLE: 3638307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	25	23.3	93	60-114	
Phenanthrene	ug/L	25	30.6	122	82-128	
Pyrene	ug/L	25	35.5	142	70-145	
2-Fluorobiphenyl (S)	%.			97	43-129	
p-Terphenyl-d14 (S)	%.			131	64-162	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3638308 3638309

Parameter	Units	50375312001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	25	24.7	26.5	26.1	106	106	35-144	2	20	
2-Methylnaphthalene	ug/L	ND	25	24.7	21.6	21.3	87	86	38-130	2	20	
Acenaphthene	ug/L	ND	25	24.7	27.3	26.5	109	107	52-131	3	20	
Acenaphthylene	ug/L	ND	25	24.7	34.5	34.0	138	138	57-120	1	20	M1
Anthracene	ug/L	ND	25	24.7	31.4	31.3	126	127	43-123	1	20	M1
Benzo(a)anthracene	ug/L	ND	25	24.7	36.0	35.9	144	146	79-132	0	20	M1
Benzo(a)pyrene	ug/L	ND	25	24.7	32.8	32.5	131	131	75-125	1	20	M1
Benzo(b)fluoranthene	ug/L	ND	25	24.7	32.2	31.4	129	127	79-149	2	20	
Benzo(g,h,i)perylene	ug/L	ND	25	24.7	30.7	30.5	123	123	48-156	1	20	
Benzo(k)fluoranthene	ug/L	ND	25	24.7	31.9	32.0	128	129	81-150	0	20	
Chrysene	ug/L	ND	25	24.7	34.4	34.3	138	139	78-130	0	20	M1
Dibenz(a,h)anthracene	ug/L	ND	25	24.7	33.4	33.1	134	134	62-149	1	20	
Fluoranthene	ug/L	ND	25	24.7	39.1	39.0	156	158	74-141	0	20	M0
Fluorene	ug/L	ND	25	24.7	31.4	31.0	125	126	56-145	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	25	24.7	31.6	31.3	126	127	51-146	1	20	
Naphthalene	ug/L	ND	25	24.7	25.1	25.1	100	102	31-147	0	20	
Phenanthrene	ug/L	ND	25	24.7	32.9	32.2	132	130	77-130	2	20	M1
Pyrene	ug/L	ND	25	24.7	36.6	36.5	146	148	75-150	0	20	
2-Fluorobiphenyl (S)	%.						86	105	43-129			
p-Terphenyl-d14 (S)	%.						131	134	64-162			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3638310 3638311

Parameter	Units	50375559001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	24.7	24.8	24.5	21.9	99	88	35-144	11	20	
2-Methylnaphthalene	ug/L	ND	24.7	24.8	19.9	17.8	81	72	38-130	11	20	
Acenaphthene	ug/L	ND	24.7	24.8	26.8	24.3	109	98	52-131	10	20	
Acenaphthylene	ug/L	ND	24.7	24.8	33.3	30.8	135	124	57-120	8	20	M1
Anthracene	ug/L	ND	24.7	24.8	31.3	32.1	127	130	43-123	3	20	M1
Benzo(a)anthracene	ug/L	ND	24.7	24.8	32.8	34.8	133	140	79-132	6	20	M1
Benzo(a)pyrene	ug/L	ND	24.7	24.8	32.1	33.9	130	137	75-125	5	20	M1
Benzo(b)fluoranthene	ug/L	ND	24.7	24.8	32.5	32.4	132	131	79-149	0	20	
Benzo(g,h,i)perylene	ug/L	ND	24.7	24.8	29.6	31.1	120	126	48-156	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: CK 42
Pace Project No.: 50375315

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3638310 3638311

Parameter	Units	50375559001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzo(k)fluoranthene	ug/L	ND	24.7	24.8	32.7	37.1	133	150	81-150	12	20	
Chrysene	ug/L	ND	24.7	24.8	32.7	34.9	132	141	78-130	6	20	M1
Dibenz(a,h)anthracene	ug/L	ND	24.7	24.8	32.4	34.2	131	138	62-149	5	20	
Fluoranthene	ug/L	ND	24.7	24.8	36.0	37.8	146	153	74-141	5	20	M0
Fluorene	ug/L	ND	24.7	24.8	31.0	29.5	126	119	56-145	5	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	24.7	24.8	29.9	32.8	121	133	51-146	9	20	
Naphthalene	ug/L	ND	24.7	24.8	23.0	20.5	93	83	31-147	11	20	
Phenanthrene	ug/L	ND	24.7	24.8	32.6	32.6	132	132	77-130	0	20	M1
Pyrene	ug/L	ND	24.7	24.8	35.3	37.4	143	151	75-150	6	20	M1
2-Fluorobiphenyl (S)	%.						102	101	43-129			
p-Terphenyl-d14 (S)	%.						131	135	64-162			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: CK 42
Pace Project No.: 50375315

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

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CK 42
Pace Project No.: 50375315

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50375315001	**MW1**	EPA 3511	795202	EPA 8270 by SIM 40E	795403
50375315002	**MW2**	EPA 3511	795202	EPA 8270 by SIM 40E	795403
50375315003	**MW3**	EPA 3511	795202	EPA 8270 by SIM 40E	795403
50375315004	**MW4**	EPA 3511	795202	EPA 8270 by SIM 40E	795403
50375315005	**DUP**	EPA 3511	795202	EPA 8270 by SIM 40E	795403
50375315001	**MW1**	EPA 8260	795864		
50375315002	**MW2**	EPA 8260	795864		
50375315003	**MW3**	EPA 8260	795864		
50375315004	**MW4**	EPA 8260	795864		
50375315005	**DUP**	EPA 8260	796088		
50375315006	**Trip Blank**	EPA 8260	796088		

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

WO# : 50375315

50375315

Company Name:	American Environemental	Contact/Report To:	Jim Madding
Street Address:	8500 Georgetown Road, Indianapolis IN	Phone #:	(317)-871-4090 x206
		E-Mail:	madding@aecindy.com
		Cc E-Mail:	
Customer Project #:	441014	Invoice To:	American Environmental
Project Name:	CK 42	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: / AcctNum / Client ID: / Table #: / Profile / Template: / Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	8260 VOCs	8270 PAHs	Sample Comment
MW1	GW	G	6/7/24	1145						X	X	001
MW2				1200								002
MW3				1215								003
MW4				1230								004
DUP				—								005
Trip Blank	↓	↓	↓	0700						↓	↓	006

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name: Caleb Bowkamp
Signature: Caleb B

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)
1	C	0.0	0.6	0.6

Relinquished by/Company: (Signature) C. Bowkamp / AEC	Date/Time: 6/7/24 @ 1425	Received by/Company: (Signature) / PACE	Date/Time: 6.7.24 1425	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

F-IN-Q-290-rev.26, 30Apr2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 6.7.2024 2121

1. **Courier:** ☐FED EX | UPS ☒CLIENT ☐PACE ☐NOW/JETT | OTHER _____
2. **Custody Seal on Cooler/Box Present:** | | Yes ☒ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B (C) D E F G H
4. **Cooler Temperature(s):** 0.6 | 0.6 | | | |
   (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** | |Bubble Wrap ☒| Bubble Bags | |None | | Other _____
6. **Ice Type:** ☒ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** | |Yes ☐No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** |X Yes | |No
   If yes but not on COC what is the EZ Bottle Order Number?: EZ 3119260

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	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			X
Short Hold Time Analysis (48 hours or less)? Analysis:		X				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent X	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Present?	X		
Extra labels on Terracore Vials? (soils only)		X	Trip Blank Custody Seals?:	X		

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

									AMBER GLASS							PLASTIC									OTHER								
			MeOH (only)																											Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			SBS																											Red	Yellow	Green	Black
			DI																													
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1				3		3																					WT				
2				|		|																				|				
3																																
4																																
5						|																									
6				|																							|				
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe