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1302 N. Meridian Street, Suite 300 • Indianapolis, Indiana 46202

March 18, 2019

Ms. Kelly Geckler  
City of Columbus Redevelopment Commission  
123 Washington Street  
Columbus, Indiana 47201

**RE: Final Report  
Phase I Environmental Site Assessment  
City Site  
53 Lafayette Avenue;  
703, 711, and 801 2nd Street  
Columbus, Indiana 47201  
August Mack Project Number JT0460.710.0001**

Dear Ms. Geckler:

August Mack Environmental, Inc. (August Mack) has completed the Final Phase I Environmental Site Assessment (ESA) for the above-referenced Site. The final report was prepared in accordance with the Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-13) issued by the American Society for Testing and Materials. This Phase I ESA is valid for a period of 365 days from February 20, 2019. After 180 days from this date and prior to using the information contained herein, components of the report are required to be updated in accordance with the ASTM standards and federal regulations. We trust that this submittal is responsive to your needs. Please contact us if you have any questions or comments regarding this submittal, or if we can be of additional service to you.

Sincerely,

Kaylee Moore  
Environmental Site Assessor

Tyler Zschiedrich  
Environmental Professional

EXPERTISE. INNOVATION. COMMITMENT.



PHASE I ENVIRONMENTAL SITE ASSESSMENT

City Site

53 Lafayette Avenue and,  
703, 711, and 801 2nd Street  
Columbus, Indiana 47201

AME PROJECT #: JT0460.710.0001

PREPARED FOR:

Ms. Kelly Geckler  
City of Columbus Redevelopment Commission  
123 Washington Street  
Columbus, Indiana 47201

PREPARED BY:

August Mack Environmental, Inc.  
1302 N. Meridian Street, Suite 300  
Indianapolis, Indiana 46202

ISSUE DATE:

March 18, 2019





**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**53 Lafayette Avenue; and, 703, 711, and 801 2nd Street**  
**Columbus, Indiana 47201**  
**August Mack Project Number JT0460.710.0001**

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**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
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**Columbus, Indiana 47201**  
**August Mack Project Number JT0460.710.0001**

**1.0 EXECUTIVE SUMMARY**

August Mack Environmental, Inc. (August Mack) has completed a Phase I Environmental Site Assessment (ESA) of the subject site located at 53 Lafayette Avenue; and, 703, 711, and 801 2nd Street, Columbus, Bartholomew County, Indiana (hereafter referred to as the "Study Site" or "Site"). The Phase I ESA was conducted in accordance with the Environmental Protection Agency (EPA) All Appropriate Inquiries (AAI) Rule (40 CFR Part 312) and American Society for Testing and Materials (ASTM) Standard E1527-13 (Standard Practice for Environmental Site Assessments).

At the time of inspection, the Study Site encompassed five (5) parcels totaling 10.22-acres, developed with one (1) 14,100-square-foot commercial warehouse/office building on the southeast corner of the Site, which is currently occupied by the City of Columbus for storage/warehousing. The warehouse/office building is surrounded by asphalt paved parking to the west, north, and east. The remainder of the Site consists of grass and scattered trees. The Study Site has historically been developed with residential dwellings, livestock yards, various commercial structures (including a car wash, a filling station, Bartholomew County REMC, and a warehouse), and a creosoting (wood treating) facility. The Site was identified in multiple regulatory databases due to historical operations, underground storage tanks (USTs), and due to releases identified at the Site.

According to information obtained from the Indiana Department of Environmental Management (IDEM), the southwest portion of the Site was developed as a coal and coke processing facility from approximately 1885 to 1903 and a wood treating/creosote facility from the 1920s to 1970. After a fire destroyed the buildings in 1971, all remnants of the former buildings were removed and the area was covered with foundry sand. Investigations began at the Site in 1999. Since approximately 2011, investigation and remediation oversight has been through the Indiana Brownfields Program (IBP). The investigations have revealed volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), and metals in soil and groundwater exceeding applicable IDEM Remediation Closure Guide (RCG) screening levels on the Site and extending off-Site to the west. In 2012, soil removal was completed in the area with greatest soil impacts. Remediation activities included removal and disposal of shallow (less than 10 feet below surface grade [ft bg]) impacted soils, in-situ soil solidification/stabilization of deep impacted unsaturated soils, and removal and disposal of an underground storage tank (UST) and associated contents. Following completion of remedial activities, the treatment area was backfilled with clean overburden soil, covered with an impermeable geomembrane, and capped with clean overburden, topsoil, and vegetation. Multiple land use restrictions have also been proposed for this portion of the

Site in order to prevent exposure to remaining contaminants.

Additional monitoring and investigation has been completed since that time, including quarterly groundwater monitoring of the monitoring well network. According to the most recent sampling event in 2018, dense non-aqueous phase liquid (DNAPL) was encountered in six (6) monitoring wells. In addition, benzene, multiple PAHs, SVOCs, and metals remain at concentrations in excess of IDEM RCG Residential Tap Water Screening Levels (SLs), Residential Vapor Intrusion Groundwater (VIGW) SLs, and/or Commercial/Industrial VIGW SLs. Groundwater impacts are located on the southwest portion of the Site and extend off-Site to the west, with the highest concentrations occurring at the southwest corner of the Study Site. Ongoing monitoring at the Site is currently being overseen by the IBF.

The former filling station/car wash on the northern portion of the Site was listed in the Underground Storage Tank (UST) and Leaking Underground Storage Tank (LUST) databases. According to historical records the northern portion of the Site was utilized as a gas station from approximately 1965 until two (2) 8,000-gallon gasoline USTs were removed in July 1992. Soil impacts were discovered in the tank basin during the removal and an incident was subsequently reported to IDEM. A Phase II Subsurface Investigation completed in 2012 in this area confirmed the presence of petroleum hydrocarbon impacts above IDEM's RCG SLs in soil and groundwater. In soil, impacts were identified above Migration to Groundwater SLs. In groundwater, impacts were identified above Commercial/Industrial VIGW SLs. Further investigative activities to fully delineate the soil and groundwater impacts was recommended; however, based on conversations with the current Site owner and review of the IDEM records, additional investigative activities have not been conducted near the former car wash since that time. As such, the LUST incident has not received closure/No Further Action from IDEM.

The eastern Site parcel (801 2nd Street) was occupied by Bartholomew County Rural Electric Membership Corp (REMC) from at least 1961 until approximately 2010, and was listed on the UST and Spills databases. The UST database listed two (2) 550-gallon gasoline USTs that were removed in 1988. No closure documentation, including confirmatory sample results, was available for review. According to the Spills database, one (1) spill was reported in 1993; 1-gallon of non-PCB transformer oil was spilled, and the full amount was reportedly recovered. One (1) spill was reported in 2008; 400-gallons of unleaded gasoline was spilled and affected the East Fork White River. Additional information regarding the spill incidents was not available for review on the IDEM VFC. Historical operations by the Bartholomew County REMC likely included storage and/or maintenance of transformers and other equipment that potentially contained PCBs.

Surrounding properties have historically consisted of residential, commercial, and industrial development. Historical records indicate land to the north and northeast of the Site was historically developed with a bulk petroleum storage facility and various commercial businesses by at least 1898. City directories listed a bulk oil plant at the property until 1981 and later listed automotive

repair facilities, a printing facility, and a truck rental company. The EDR report listed the north adjoining facility as Papa's Deli at 819 3rd Street on the Brownfields database. The Brownfields database indicated contaminants identified at the property included metals, PAHs, volatile organic compounds (VOCs), and petroleum products in a 2018 Phase II. A copy of the Phase II and additional information following the reported contamination was not available for review and the extent of contamination is unknown.

In addition, the east adjoining property was developed with a gasoline station by 1992. According to regulatory information on the IDEM VFC, the facility has 10 USTs that were installed in 1992. Based on Site observations and review of aerials, some of the USTs are located within 25-feet of the Study Site boundary. The most recent UST inspection from 2016 indicated the facility has been inactive for an undetermined period of time and was without electricity; therefore there was no active leak detection for the tanks or piping at the facility. With the exception of the former bulk petroleum storage facility to the north and the inactive gas station to the east, none of the surrounding properties were found to pose an environmental concern to the Site.

A summary of the findings from the assessment is provided below.

	Finding	REC	CREC	HREC	Data Gap	Other
1	The presence of VOCs, SVOCs, PAHs, and metals in soil and groundwater exceeding IDEM screening levels on the southwest portion of the Site due to historical wood treatment operations, actively being monitored through the Indiana Brownfields Program.	✓				
2	The presence of petroleum impacts exceeding IDEM screening levels on the northern portion of the Site with an unresolved LUST incident in the vicinity of the former filling station and car wash.	✓				
3	The lack of closure documentation, including confirmatory sample data, for two (2) gasoline USTs removed from the northeastern portion of the Site in 1988.	✓			✓	

	Finding	REC	CREC	HREC	Data Gap	Other
4	The historical use of the eastern Site parcel which likely included storage and/or maintenance of transformers and other equipment that potentially contained PCBs.	✓				
5	The historical use of the north adjoining, hydraulically up-gradient property as a bulk petroleum storage facility from as early as 1898 to 1981 and unknown extent of documented impacts.	✓				
6	The presence of an inactive filling station on the east adjoining, hydraulically up-gradient property, with USTs located within 25-feet of the Site.	✓				

## **2.0 INTRODUCTION**

### **2.1 Property Description**

The Study Site is located at 53 Lafayette Avenue; and, 703, 711, and 801 2nd Street, Columbus, Bartholomew County, Indiana. The Site is located on the southeast side of Columbus, approximately 0.2-miles from the city's center. The Study Site consists of five (5) parcels (Parcels 03-95-25-110-000.900-005, 03-95-25-110-001.900-005, 03-95-25-110-002.000-005, 03-95-25-120-004.900-005, and 03-95-25-120-004.901-005) totaling approximately 10.22-acres, owned by the City of Columbus Redevelopment Commission. The Site is developed with one (1) 14,100-square-foot commercial building located on the southeast portion of the Site with a parking lot to the north, east, and west. The remainder of the Site consists of mown grass with scattered trees. The location of the Site is depicted on a topographic map and aerial photograph, which are provided in Appendix A.

### **2.2 Purpose**

The purpose of this assessment was to identify Recognized Environmental Conditions (RECs) at the Study Site. According to the ASTM Standard E1527-13, a REC is defined as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." The term "environment" and "release" are defined in CERCLA 42 U.S.C. § 9601(8) and (22), respectively.

### **2.3 Detailed Scope of Services**

The scope of work for this assessment was completed in conformance with the standards and protocols set forth in the ASTM standard designation E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The scope of services for the Phase I ESA included an on-Site reconnaissance of the property, interviews with the property owner (or the key Site manager as designated by the owner) and persons knowledgeable about the Site, and a review of available environmental records concerning the property and surrounding area.

The review of the environmental history of the property was also conducted through a computerized database search of the relevant sites maintained by state and federal regulatory agencies. Pertinent regulatory agency files and records were reviewed for the property and adjoining properties that were identified on one or more of the standard environmental record sources. In addition, historical aerial photographs and other historical records were reviewed to help document past Site usage and the past usage of surrounding properties. An evaluation for vapor migration onto the property from known or potential contaminant sources was also performed. The assessment was conducted by or under the supervision or responsible charge of an Environmental Professional (EP), as defined by ASTM and 40 CFR §312.10(b).



## **2.4 Significant Assumptions**

This Phase I ESA was conducted to ensure that the methodologies used meet the all appropriate inquiry requirements and are consistent with good commercial and customary practices to identify and analyze environmental conditions that constitute existing, past, or potential environmental risks associated with the Study Site. Performance, in accordance with this standard, is intended to reduce, but not entirely eliminate, uncertainty with respect to the potential RECs associated with the Study Site. Information regarding operations, conditions, and data provided by the client, user, owner, regulatory database provider, regulatory agencies, other providers of public record, or their representatives has been assumed to be correct and complete. The investigative requirements as stated in ASTM E1527-13 have been satisfied by this assignment with no significant deviations.

## **2.5 Limitations, Exceptions, and Deviations**

The findings presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by August Mack and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances as established by the environmental consulting industry. To the extent that August Mack relied upon any information prepared by other parties not under contract to August Mack, August Mack makes no representation as to the accuracy or completeness of such information. Only the party for whom this report was originally prepared, and other specifically named parties, may make use of and rely upon the information in this report, in its entirety, for a period not to exceed 180 days in accordance with the ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E1527-13) and/or the Standards and Practices for All Appropriate Inquiries: Final Rule (40 CFR Part 312). After 180 days and prior to using the information contained herein, components of the report are required to be updated in accordance with ASTM standards and federal regulations.

The findings presented in this report apply solely to site conditions existing at the time when August Mack's assessment was performed. It must be recognized, however, that a Phase I ESA is intended for the purpose of evaluating the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the Site may vary from those at the locations where data was collected. August Mack's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in Phase I ESA conclusions cannot reasonably be achieved. Therefore, August Mack does not provide any guarantees, certifications, or warranties (express or implied) that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and all applicable laws, codes, regulations, or standards.

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

## **2.6 Special Terms and Conditions**

All appropriate inquiry into the prior uses of the property was made in accordance with good commercial and customary practices to identify and analyze RECs constituting existing, past, or potential environmental concerns in connection with the Study Site. This assessment did not include special terms and conditions outside the scope of ASTM E1527-13.

## **2.7 Report Reliance**

This assessment was performed utilizing methods and procedures consistent with good commercial and customary practices designed to conform to acceptable industry standards. The report may be relied on by the City of Columbus Redevelopment Commission. Reliance on the information and conclusions presented in this report by any other party(ies) is not authorized by August Mack.

### **3.0 USER-PROVIDED INFORMATION**

The User of this report is the City of Columbus Redevelopment Commission. Ms. Heather Pope, Redevelopment Director, completed the User-provided information portion of this assessment. A completed copy of the User Questionnaire is included in Appendix B.

#### **3.1 Environmental Liens**

The User did not report any environmental liens for the Study Site parcel. According to the database report, no environmental liens were identified for the Study Site.

#### **3.2 Activity Use Limitations (AULs)**

The User indicated there are potentially restrictions in place for the 703 2nd Street parcel, including commercial use only for ground floor of structures; no drinking water wells; and no daycares. However, the User indicates she is unaware of an Environmental Restrictive Covenant (ERC) currently placed on the Site.

Based on review of regulatory records, a draft ERC was included with a Comfort Letter issued to a bona fide prospective purchaser (BFPP) of 701 2nd Street (Lot 2B) in 2009. The ERC included the following restrictions:

- Shall not the use of the Real Estate for residential purposes, including, but not limited to daily car facilities (e.g., daycare centers, schools and senior citizen facilities).
- Shall not use of the Real Estate for agricultural purposes.
- Neither engage in nor allow the installation or use of water wells on the Real Estate. There shall be no consumptive, extractive or other use of the groundwater underlying the Real Estate that could cause exposure of humans or animals to the groundwater or disrupt the movement of groundwater underlying the Real Estate, other than for site investigation and/or remediation purposes, without prior Department approval.
- Neither engage in nor allow the excavation of soil on the Real Estate without first submitting a work plan for approval by the Department at least sixty (60) days prior to beginning work. Any removal, excavation or disturbance of soil on the Real Estate must be conducted in accordance with all applicable requirements of IOSHA/OSHA and any soil that is removed, excavated or disturbed from the Real Estate must be managed and disposed of in accordance with all applicable federal and state laws and regulations.
- Notify the Department if there is a change in land use and/or any zoning changes that affect the commercial/industrial use of the Real Estate.

However, a copy of a recorded ERC was not identified on the IDEM VFC. Therefore, it is unknown whether the ERC was recorded to the property deed.

### **3.3 Specialized Knowledge or Experience**

The User indicated 53 Lafayette Avenue is currently a Brownfields Site. The User also indicated there is known contamination at 703 2nd Street, but IDEM found it to be acceptable for commercial use; and, there was also minor petroleum detection at 711 2nd Street.

### **3.4 Property Valuation Reduction for Environmental Issues**

The User did not report any information regarding valuation reduction for environmental issues at the Study Site.

### **3.5 Commonly Known or Reasonably Ascertainable Information**

The User indicated the Study Site was formerly a wood treating plant at 703 2nd Street and 53 Lafayette Avenue; a former gas station, car wash, auto-detailing shop at 711 2nd Street; and, a former Rural Electric office/garage, with transformer storage at 801 2nd Street. The User also indicated that there may have been foundry sand on the 703 2nd Street parcel that was from the former Golden Foundry nearby.

### **3.6 Reason for Performing Phase I**

The Phase I ESA report was prepared by August Mack at the request of Ms. Kelly Geckler of the City of Columbus Redevelopment Commission. The ESA was requested in advance of a potential property transaction in order to evaluate financial and environmental liabilities associated with the Study Site.

## **4.0 RECORDS REVIEW**

### **4.1 Physical Setting**

The Study Site topography is generally flat with an average surface elevation of approximately 619-feet above mean sea level. Surface drainage appears to flow via runoff toward the adjacent streets and infiltration. The area topography surrounding the Study Site is generally flat with a general topographical gradient to the southwest toward the East Fork White River.

The Study Site is located in a regional physiographic area called the East Fork White River Basin in the province referred to as the Scottsburg Lowland. According to the Hydrogeologic Atlas of Aquifers in Indiana (Fenelon, Bobay, and Others, 1994), bedrock formations in the vicinity of the Site are comprised of Devonian and Mississippian shale.

According to information at the Natural Resource Conservation Service (NRCS) website, surficial soils on the Study Site are primarily comprised of Shoals silt loam, 0 to 2 percent slopes, frequently flooded, brief duration; Urban land-Fox complex, 2 to 6 percent slopes; Urban land-Fox complex, 0 to 2 percent slopes; Eel loam, 0 to 2 percent slopes, frequently flooded, brief duration; and ROssburg silt loam, 0 to 2 percent slopes, frequently flooded, brief duration. A copy of the soil map obtained from the NRCS website is included in Appendix G.

According to a Third Quarter 2018 Groundwater Monitoring Report prepared by August Mack, shallow groundwater flow on-Site is to the southwest, and deep groundwater flow on-Site is to the west. Any reference to hydraulic gradient is assumed based on this information. Factors such as utilities, groundwater wells, injection wells, and development can locally influence groundwater flow; therefore, hydraulic gradient is typically only one of the criteria considered when evaluating the likelihood of impact from a surrounding property.

### **4.2 Environmental Records Search**

Files maintained by the United States Environmental Protection Agency (U.S. EPA) and the Indiana Department of Environmental Management (IDEM) were reviewed to determine the regulatory status of the Site and surrounding area. A computerized database search report obtained from Environmental Data Resources, Inc. (EDR) dated February 20, 2019 (database report), was reviewed regarding solid and hazardous waste management, emergency response, chemical spills, underground storage tanks (USTs), and leaking underground storage tanks (LUSTs) to determine, at a minimum, whether the facility or neighboring facilities: (1) are under investigation for violation of any environmental laws, regulations, or standards; (2) are listed on any environmental databases, including the CERCLA, Resource Conservation and Recovery Act (RCRA), UST notification lists, disposal sites, etc.; and (3) whether the facility has been the subject of any reported violations or complaints. Each standard database was searched to at least the approximate minimum search distance as identified in ASTM E1527-13. A summary of the regulatory records review information obtained from the database report is presented in the table below, and the database report is provided

in Appendix C.

### Summary of Regulatory Records Review

Database	Target Property	Search Distance (Miles)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
DELISTED NPL	0	1	0	0	1	0	NR	1
SEMS	0	0.5	0	0	1	NR	NR	1
SEMS-ARCHIVE	0	0.5	1	0	0	NR	NR	1
RCRA-SQG	0	0.25	0	1	NR	NR	NR	1
RCRA-CESQG	0	0.25	1	1	NR	NR	NR	2
US ENG CONTROLS	0	0.5	0	0	1	NR	NR	1
FTTS	1	TP	NR	NR	NR	NR	NR	1
HIST FTTS	1	TP	NR	NR	NR	NR	NR	1
FINDS	3	TP	NR	NR	NR	NR	NR	3
ROD	0	1	0	0	1	0	NR	1
RCRA NonGen/ NLR	0	0.25	2	1	NR	NR	NR	3
IN ASBESTOS	2	TP	NR	NR	NR	NR	NR	2
IND WASTE	0	0.25	0	2	NR	NR	NR	2
LUST	1	0.5	5	1	6	NR	NR	13
UST	2	0.25	7	7	NR	NR	NR	16
IN MANIFEST	0	0.25	2	3	NR	NR	NR	5
RI MANIFEST	0	0.25	0	1	NR	NR	NR	1
SPILLS	2	TP	NR	NR	NR	NR	NR	2
AUL	0	0.5	2	2	0	NR	NR	4
VCP	0	0.5	1	1	0	NR	NR	2
DRYCLEANERS	0	0.25	0	1	NR	NR	NR	1
IN BROWNFIELDS	0	0.5	3	1	2	NR	NR	6
US BROWNFIELDS	0	0.5	2	0	0	NR	NR	2
RGA LUST	1	TP	NR	NR	NR	NR	NR	1
OISC	0	0.25	0	2	NR	NR	NR	2
SWRCY	0	0.5	1	2	2	NR	NR	5
SCP	0	0.5	1	1	0	NR	NR	2
EDR Hist Auto	1	0.125	4	NR	NR	NR	NR	5

Database	Target Property	Search Distance (Miles)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
EDR MGP	0	1	0	0	0	1	NR	1

#### 4.2.1 Listings for the Study Site

The Study Site was identified in the following databases:

##### Detail Summary

Site Name:	Columbus Indoor Sports Complex/703 2nd Street/Lot 2B
Databases:	FINDS, Asbestos, Brownfields
Address:	701-703 2nd Street
Distance:	On-Site
Direction:	On-Site
Elevation:	619-feet above sea level
Comments:	<p>Columbus Indoor Sports Complex was listed in the Facility Index System (FINDS) database in association with the State Master Program.</p> <p>According to the Asbestos database, demolition was conducted at 703 2nd Street in August 2017.</p> <p>The Site was listed in the Brownfields database as Lot 2B. The database indicates land use restrictions related to residential development, agriculture, groundwater wells, and excavations are in place at the Site. A Comfort Letter was issued in 2009.</p> <p>Refer to Section 4.3 for additional information.</p>

##### Detail Summary

Site Name:	Former Columbus Wood Treating Plant/Columbus Wood Treating Plant/Former Columbus Wood Treating Site/Columbus Wood Preserving Co.
Databases:	Brownfields, FINDS, VCP, RCRA-CESQG, FINDS, ECHO, SEMS-Archive
Address:	705 2nd Street/53 Lafayette Avenue/500 Block of 1st Street

Distance:	On-Site
Direction:	On-Site
Elevation:	619-feet above sea level
Comments:	<p>According to the Brownfields database, soil and groundwater contamination has been identified at the Site. Constituents of concern include polycyclic aromatic hydrocarbons (PAHs). The FINDS database indicates association with the State Master Program, RCRA, and the EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES). A Petroleum Determination Letter was issued in 2011. Columbus Wood Treating Plant is listed as inactive in the Voluntary Cleanup Program (VCP) database. Former Columbus Wood Treating Site was listed as a Conditionally Exempt Small Quantity Generator (CESQG) of hazardous waste in 2015. The waste summary includes pentachlorophenol (D037); wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use chlorophenolic formulations (F032); and wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations (F034) with no violations found. According to the Enforcement and Compliance History Online (ECHO) database, no RCRA violations were reported during the past three (3) years. Additionally, Columbus Wood Preserving Co. was listed in the Superfund Enterprise Management System (SEMS) Archive and Brownfields databases. According to the SEMS-Archive database, the Site does not qualify for the National Priority List (NPL) and was archived in 1992. The Brownfields database indicates that a Comment Letter was issued in 2004.</p> <p>Refer to Section 4.3 for additional information.</p>

### Detail Summary

Site Name:	Robo-Wash of Indiana Inc./Bob's Car Wash
Databases:	EDR Hist Auto, FINDS, LUST, UST, Asbestos
Address:	711 2nd Street
Distance:	On-Site
Direction:	On-Site
Elevation:	619-feet above sea level



Comments:	<p>The Site was listed as Robo-Wash of Indiana Inc. (gasoline service station) from 1969 to 1970.</p> <p>Additionally, the Site was listed in the FINDS database as Bob's Car Wash. The listing indicates association with the Facility Registry System (FRS) and the State Master Program. The LUST database lists one (1) low-priority LUST incident from 1992 with discontinued (active) status. One (1) 8,000-gallon diesel UST and one (1) UST with unknown capacity were permanently closed in 1992. According to the Asbestos database, demolition occurred at 711 2nd Street in August 2017.</p> <p>Refer to Section 4.3 for additional information.</p>
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### Detail Summary

Site Name:	Premier Agricultural Cooperative Incorporated/802 2nd Avenue/Bartholomew County REMC
Databases:	UST, Spills, FINDS, FTTS, Hist FTTS
Address:	801 2nd Street
Distance:	On-Site
Direction:	On-Site
Elevation:	619-feet above sea level
Comments:	<p>The Site was listed in the UST database as Premier Agricultural Cooperative Incorporated. Two (2) 550-gallon gasoline USTs were permanently closed in 1988.</p> <p>According to the Spills database, one (1) spill (199307206) was reported for 801 2nd Avenue in 1993; 1-gallon of non-PCB transformer oil was spilled, and the full amount was reportedly recovered. One (1) spill incident (200806153) was reported in 2008; 400-gallons of unleaded gasoline was spilled and affected the East Fork White River.</p> <p>Bartholomew County REMC was listed in the FINDS; Federal Insecticide, Fungicide, and Rodenticide Act and Toxic Substances Control Act Tracking System (FTTS); and Historical FTTS databases. The FINDS database indicates association with FRS and the National Compliance Data Base (NCDB). According to the FTTS and Historical FTTS databases, an inspection related to polychlorinated biphenyls (PCBs) was conducted in 1991.</p> <p>Refer to Section 4.3 for additional information.</p>

#### 4.2.2 Listings for the Surrounding Properties

The regulatory records that were identified within the search distance from the Study Site were evaluated using August Mack's professional judgment to determine the facility's potential impact to the Site. The factors considered in evaluating a facility's potential impact to the Site include the facility's distance from the Site, information about the regulated activities on the site, the topography of the area, and the estimated groundwater flow direction. Listings of environmental significance are summarized in the tables below.

##### Detail Summary

Site Name:	Second Street Save 117
Databases:	UST
Address:	610 2nd Street
Distance:	Adjoining
Direction:	North
Elevation:	Higher
Comments:	Three (3) 12,000-gallon gasoline USTs were installed in 1972 and permanently closed in 2005.  Refer to Section 4.3 for additional information.

##### Detail Summary

Site Name:	Premier Ag Co-Op Inc./Tom's Food & Fuel
Databases:	EDR Hist Auto, UST
Address:	867 2nd Street
Distance:	Adjoining
Direction:	East
Elevation:	Higher

Comments:	<p>The EDR Historical Auto Stations database lists the property as Premier Ag Co-Op Inc. (gasoline service station, NEC) from 1993 to 1998. According to the UST, database, a total of ten (10) USTs installed in 1992 are currently in use: six (6) diesel USTs, three (3) gasoline USTs, and one (1) kerosene UST.</p> <p>Refer to Section 4.3 for additional information.</p>
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### Detail Summary

Site Name:	Papa's Deli
Databases:	Brownfields
Address:	819 3rd Street
Distance:	Adjoining
Direction:	North
Elevation:	Higher
Comments:	<p>According to the Brownfields database, the property was historically developed as a railroad depot and bulk petroleum plant. Contaminants identified at the property included metals, PAHs, volatile organic compounds (VOCs), and petroleum products.</p> <p>Refer to Section 4.3 for additional information.</p>

### Detail Summary

Site Name:	Graham Todd Building
Databases:	UST
Address:	215 Franklin Street
Distance:	Adjoining
Direction:	Northwest
Elevation:	Higher

Comments:	<p>According to the UST database, one (1) 500-gallon used oil UST and two (2) 500-gallon USTs with unreported contents were permanently closed in 1989.</p> <p>Refer to Section 4.3 for additional information.</p>
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### Detail Summary

Site Name:	Bartholomew County Farm Bureau
Databases:	LUST
Address:	901 3rd Street
Distance:	Approximately 285-feet
Direction:	Northeast
Elevation:	Higher
Comments:	<p>One (1) medium-priority LUST incident from 1996 is listed as deactivated (no release confirmed).</p> <p>Based on the deactivated status of the LUST release due to no confirmed release and the distance from the Study Site, this property does not pose an environmental concern to the Site.</p>

### Detail Summary

Site Name:	Miller Oil of Indiana
Databases:	LUST, UST, FINDS, Manifest, SCP, AUL, RCRA NonGen/NLR, ECHO
Address:	10 Franklin Street/10 S. Franklin Street
Distance:	420-feet
Direction:	West
Elevation:	Higher

Comments:	<p>The EDR reported listed the facility on the UST database for historically utilizing one (1) 8,000-gallon diesel UST installed in 1975/removed 1988; one (1) 5,000-gallon gasoline UST installed 1967/removed 1988; one (1) 1,000-gallon gasoline UST installed 1967/removed 1988; and, one (1) 1,000-gallon "other" UST installed 1943/removed 1988. A medium-priority LUST incident was reported in 2003 that received a No Further Action (NFA)-Conditional Closure from IDEM.</p> <p>The RCRA database listed the facility as Miller Oil of Indiana as a small quantity generator (SQG) in 2002 and as a non-generator in 2003. The Manifest database listed the facility as non-active. The FINDs and ECHO databases listings are associated with the RCRA listings, with no violations found.</p> <p>The SCP database indicates there is groundwater monitoring data from 2010. The AUL database indicates that there shall be no construction or allowance of residential use or work space with a sub-surface unless there is a soil-gas investigation for benzene prior.</p> <p>Based on the distance from the Site and cross to down-gradient direction from the Site, this property does not pose an environmental concern to the Site.</p>
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#### 4.2.3 Orphan Site Summary

Unplottable sites are sites where incomplete address information exists, meaning the site could not be accurately plotted. One (1) unplottable site was identified in the database report. A review of the name and limited address information for this site did not find it to pose known or potential environmental concern to the Study Site.

#### 4.3 Regulatory Agency File and Records Review

The Site and surrounding properties were identified on one or more of the standard environmental record sources. The following regulatory agency files and records obtained from the IDEM Virtual File Cabinet (VFC) were reviewed:

##### Study Site

##### Columbus Indoor Sports Complex/Lot 2B at 701-703 2nd Street

Files available for 701-703 2nd Street on the IDEM VFC are related to the Former Columbus Wood Treating Plant addressed as 705 2nd Street. Relevant files for the Former Columbus Wood Treating Plant are summarized below.

##### Former Columbus Wood Treating Plant at 705 2nd Street

Records indicate historical Site operations included coal and coke processing from approximately 1885 to 1903. Wood treatment operations, which included the use of creosote for preservation of

wood products, began at the Site in the 1920s. The Site ceased treatment operations in 1970, and all buildings associated with wood treating operations were destroyed in a fire in 1971. Following the fire, all remnants of the former buildings were removed and the area was covered with foundry sand. Investigations began at the Site in 1999. The Site initially entered into IDEM's Voluntary Remediation Program (VRP) in 2006 under the name Irwin-Sweeney-Miller Foundation due to impacts identified in soil and groundwater; however, due to lack of activity following the initial application, the VRP status was terminated in 2008 and the Site was referred to the State Cleanup Program (SCP). Since approximately 2011, investigation and remediation oversight has been through the Indiana Brownfields Program (IBP). The investigations have revealed VOCs, SVOCs, PAHs, and metals in soil and groundwater exceeding applicable IDEM screening levels on the Site and extending off-Site to the west.

Bruce Carter Associates, LLC (BCA) submitted a Remediation Work Plan (RWP) to the Indiana Brownfields Program (IBP) on March 15, 2012, to mitigate soil and groundwater impacts exceeding appropriate closure levels. The work plan was amended by BCA in February 2014 to include additional delineation work (i.e. "RWP Addendum 2"). Remediation activities at the Site included: removal and disposal of shallow (less than 10 feet below surface grade [ft bg]) impacted soils, in-situ soil solidification/stabilization of deep impacted unsaturated soils, and removal and disposal of an underground storage tank (UST) and associated contents. Following completion of remedial activities, the treatment area was backfilled with clean overburden soil, covered with an impermeable geomembrane, and capped with clean overburden, topsoil, and vegetation.

Additional monitoring and investigation has been completed since that time, including quarterly groundwater monitoring of the monitoring well network. According to the most recent monitoring report, the Third Quarter 2018 Groundwater Monitoring Report prepared by August Mack, groundwater samples were collected at eighteen (18) wells during this event. Dense non-aqueous phase liquid (DNAPL) was encountered in six (6) monitoring wells. The samples were submitted for analysis of VOCs, SVOCs, PAHs, and hexavalent chromium. In addition, select samples were analyzed for pentachlorophenol (PCP) and total and dissolved arsenic. Benzene, dibenzofuran, PCP, arsenic, hexavalent chromium, and several PAH constituents were detected in excess of IDEM RCG screening levels, including Residential Tap Screening Levels (SLs), Residential Vapor Intrusion Groundwater (VIGW) SLs, and Commercial/Industrial VIGW SLs. The groundwater impacts were identified at the Site and off-Site to the west, with the highest concentrations occurring at the southwest corner of the Study Site. August Mack planned to complete Fourth Quarter 2018 groundwater sampling at the Site and intended to submit a request for closure along with the groundwater monitoring report. Ongoing monitoring at the Site is currently being overseen by the IBF.

#### Robo-Wash of Indiana Inc./Bob's Car Wash at 711 2nd Street

According to IDEM documentation, two (2) 8,000-gallon gasoline USTs were removed from this area of the Site near the former car wash bays in 1992. Soil impacts were discovered in the tank

basin during the removal and an incident was reported to IDEM. Bioremediation was considered as an option for treating the soil contamination. In 1999, IDEM requested an update on the release and a UST System Closure Site Assessment Report. Such information was not available for review on the IDEM VFC. An application for Excess Liability Trust Fund (ELTF) eligibility was submitted to IDEM in 2012. The application was denied because an initial site characterization had not been submitted to IDEM.

A Phase II Subsurface Investigation conducted by American Environmental (American) on July 20, 2012 was provided by to August Mack by the current Site owner. During the Phase II, American advanced five (5) soil borings in the vicinity of the of the former UST system on the northeast corner of the Study Site to further evaluate this area. Soils were submitted for laboratory analysis of adsorbed benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ethel (MTBE), PAHs, and naphthalene. Upon completion of the soil sampling activities, each boring was converted into a temporary groundwater monitoring point. Groundwater was collected from each sampling point and submitted for laboratory analysis of dissolved BTEX and MTBE, PAHs, and naphthalene. The results of the subsurface investigation confirmed the presence of petroleum hydrocarbon impacts above IDEM's RCG Screening Levels (SLs), in soil and groundwater, related to the historical use of the former UST system. In soil, impacts were identified above Migration to Groundwater SLs. In groundwater, impacts were identified above Commercial/Industrial VIGW SLs. The area of highest soil and groundwater impacts (P-2 and P-3) were encountered adjacent to the former pump islands and it should be noted that a petroleum hydrocarbon sheen was visible during groundwater sampling, indicating the potential presence of non-aqueous liquid phase hydrocarbons. American recommended further investigative activities fully delineate the soil and groundwater impacts. Based on conversations with the current Site owner and review of the IDEM VFC, additional investigative activities have not been conducted near the former car wash since that time.

#### Premier Agricultural Cooperative Incorporated/Bartholomew County REMC at 801 2nd Street

According to UST notification documents obtained from the IDEM VFC, two (2) 550-gallon gasoline USTs were removed from the Site in 1988. The USTs were near the northeast corner of the former Bartholomew County REMC garage, which was located at the northeast corner of the Site. No information regarding confirmatory sampling was available for review.

#### **Adjoining Properties**

##### Second Street Save 117 at 610 2nd Street (north adjoining)

August Mack reviewed a 2006 Subsurface Investigation Report prepared by Astbury Environmental Engineering, Inc. (AEE). The property was developed as a filling station from approximately 1972 to 2000. Three (3) 12,000-gallon USTs (located approximately 100-feet to the north of the Site) were removed in 2000. In 2006, AEE advanced ten (10) soil borings in the vicinity of the USTs. Four (4) soil samples were submitted for analysis of total petroleum hydrocarbons (TPH) in gasoline and diesel ranges. One (1) groundwater sample was collected and submitted for analysis of BTEX and

MTBE. All samples were non-detect for the constituents of concern.

Premier Ag Co-Op Inc./Tom's Food & Fuel at 867 2nd Street (east adjoining)

Multiple UST notification and inspection documents were available on the IDEM VFC. Violations were reported in 2010 and 2014 after the operator of the UST system failed to submit required documentation to IDEM. A compliance inspection was conducted in February 2016, at which time IDEM found that the facility was abandoned and the USTs were temporarily closed. A January 2019 UST notification form indicated that the property had been sold to a new owner but had not yet reopened. During the Site reconnaissance, the gas station was observed to remain vacant.

Papa's Deli at 819 3rd Street (north adjoining)

According to the EDR report, in a 2018 Phase II investigation contaminants identified at the property included metals, PAHs, volatile organic compounds (VOCs), and petroleum products. The Phase II investigation was not available for review on the IDEM VFC. Three (3) records were available on the VFC from 2017, prior to the Phase II investigation. The records included a Petroleum Eligibility Determination Request Form prepared by the City of Columbus. According to the form, the property was historically developed with a railroad depot, brewers depot and warehouses, stock pens, a bulk petroleum storage facility, and various commercial businesses. The property was reportedly used as a bulk petroleum storage facility from at least 1898 to 1966. Additional records regarding the reported contamination, extent of contamination, and further investigative work was not available on the VFC.

Graham Todd Building at 215 Franklin Street (northwest adjoining)

According to a UST notification form dated May 20, 1986, one (1) 500-gallon used oil UST, two (2) 500-gallon new oil USTs, and one (1) 500-gallon "trans fluid" UST were in use. A UST notification form dated August 1989 indicates that one (1) 500-gallon used oil UST and two (2) 500-gallon new oil USTs were removed in July 1989. No information regarding closure sampling or the exact locations of the USTs was available for review. Additionally, no information regarding the status of the "trans fluid" UST was available.

Copies of pertinent documentation are provided in Appendix G.

#### **4.4 Vapor Encroachment Screening**

A Vapor Encroachment Screen was conducted in general accordance with ASTM E2600-15. A Vapor Encroachment Condition (VEC) is the presence or likely presence of chemicals of concern (COC) vapors in the vadose zone of the Site caused by the release of vapors from contaminated soil and/or groundwater either on or near the Site. It should be noted, the screen is intended to reduce, but not eliminate, uncertainty regarding whether or not a VEC exists in connection with a property. Through review of the database report and historical sources, soil and groundwater impacts have been identified in multiple areas at the Site. According to a Third Quarter 2018 Groundwater Monitoring Report prepared by August Mack, SVOC constituents are present in



on-Site groundwater at concentrations exceeding IDEM RCG Residential and/or Commercial/Industrial VIGWSLs. Therefore, a VEC exists.

#### **4.5 Historical Use Information**

Historical records were available for the Study Site dating back to 1890, at which time the northwest portion of the Site was residentially developed. According to Sanborn Fire Insurance Maps, the central portion of the Site was occupied by a lumber yard by 1898 and the southwest portion of the Site was developed with livestock pens and the Columbus Creosoting Co. by at least 1927. Commercial development on the northern portion of the Site, including a car wash and filling station, increased through the 1960s. Commercial structures were also evident on the northeast corner by 1955. Multiple residential and industrial structures were razed by 1987. The current commercial building was developed the southeast portion of the Site by 1992. Commercial structures on the northern portion of the Site were razed in 2016 and 2017, at which time the Site appeared similar to the current configuration. City directories listed residential, commercial, and industrial occupants at the Site, including Bartholomew County Rural Electric County Rural Electric Membership Corp. (REMC) and Columbus Wood Preserving Co.

Properties to the west and north were residentially developed by at least the late 1800s. A stock yard and coal/wood yard were shown to the north of the Site by 1898. Commercial and industrial development increased significantly during the following years, and many formerly residential properties became commercially developed. The surrounding area appeared similar to the current configuration by 2016 after several commercial structures to the north and east had been razed. According to city directories, historical occupants of the north adjoining properties included a gasoline station, auto sales and service facilities, and a bulk oil plant. Sanborn Fire Insurance Maps showed oil tanks at the north adjoining coal yard property by 1959, and the property was listed as a bulk oil plant from 1961 to 1981. City directories list the east adjoining property as a gas station by 1995 and the gas station and fill ports are visible in aerial photographs by 1998, similar to current configurations.

Copies of historical research documentation are provided in Appendix D.

##### **4.5.1 Sanborn Fire Insurance Maps**

August Mack contracted EDR to search for Sanborn Fire Insurance Maps of the Study Site and surrounding area. The available Sanborn Fire Insurance Maps were reviewed and a summary of the Maps is presented below.

### Summary of Sanborn Maps

Year(s)	Study Site Description	Surrounding Property Description
1886	No coverage available.	Most of the surrounding properties are not depicted. Residential development and railroad tracks are shown to the north.
1890 1892	The northwest portion of the Site is developed with multiple residential dwellings and association outbuildings. The remainder of the Study Site is not depicted.	Similar to the previous map with residential development shown to the west.
1898 1906 1912	Similar to 1892; however, the central portion of the Site is labeled as a wood yard.	Similar to 1892 with additional residential development, a stock yard, and a coal and wood yard depicted to the north; and, a Standard Oil Co. and Jung Brewing Co.'s Beer Depot to the northeast.
1927 1947	The southwest portion of the Site is developed with stock pens, railroad spurs, and the Columbus Creosoting Co.	Similar to 1912, with iron creosote tanks on ground associated with the Study Site to the south.
1959	Similar to 1947.	Similar to 1947 with oil tanks depicted with the Columbus Coal Co. on the north adjoining property.

#### 4.5.2 City Directories Search

August Mack contracted EDR to search for city directories of the Study Site and surrounding area. A summary of the listings for the Site is presented in the table below.

#### Summary of Historical City Directories for the Study Site

Address	Occupant	Years Listed
101 Lafayette Avenue	Producers Marketing Assn livestock	1961
	Farmers Marketing Association (storage)	1966-1981
	Vacant	1986
121 Lafayette Avenue and 601-639 2nd Street	Residential	1961-1986
703 2nd Street	Rhino Sales Inc.	2000-2005

Address	Occupant	Years Listed
705 2nd Street	Columbus Wood Preserving Co.	1961-1966
	Vacant	1976
	Bob's Custom-Brushed Car Wash (storage)	1981
711 2nd Street	Bob's Custom-Brushed Car Wash	1976-1995
	Custom Brushed Inc.	2000-2014
801 2nd Street	Bartholomew County Rural Electric Membership Corp.	1961-2010

Surrounding properties were primarily residential, commercial, and industrial. Properties of environmental significance are presented in the table below.

#### **Summary of Historical City Directories for the Surrounding Areas**

Address	Occupant	Years Listed
610 2nd Street (north adjoining)	Highway Oil Co. Station 726	1976
		2005
	Wise Auto Sales	
804 2nd Street (north adjoining)	GHM Enterprises Inc.	1992-1995
	Ryder Truck Rental Inc.	1992-2000
	Gardners Auto Repair	2000-2005
806 2nd Street (north adjoining)	Ward-Schlichter Co. autos	1966
	Groh Instand Copy offset printing	1976
		1981-1986
	Bartholomew County REMC	1992
	Always Flowers	2000-2010
	Hatfield Construction	2000-2010
	Phoenix Guns	

Address	Occupant	Years Listed
808 2nd Street (north adjoining)	Standard Oil Co. (bulk plant) Sipes Oil Co. Inc.	1961-1976 1981
867 2nd Street (east adjoining)	Premier Ag Co-Op Inc. TNT Express LLC	1995 2005
205 Lafayette Avenue (north adjoining; also listed as 610 2nd Street)	Highway Oil Co. (side entrance)	1976-1986

#### 4.5.3 Aerial Photographs

August Mack contracted EDR to search for historical aerial photographs of the Study Site and surrounding area. In addition, aerial photographs were viewed using Google Earth. A summary of the aerial photographs is presented in the table below.

##### Summary of Historical Aerial Photographs

Year(s)	Study Site Description	Surrounding Property Description
1952	The Site appears to consist of a mixture of residential and industrial development. Specific development indiscernible due to the quality of the image.	Surrounding properties appear to consist of a mixture of residential, commercial, and agricultural land. Specific development indiscernible due to the quality of the image.
1955 1960	The northwest portion of the Site is residentially developed, and the remainder of the Site is developed with several industrial structures and one (1) commercial structure, on the northeast portion. Railroad spurs are located on the northeast and southern portions.	Residential development is present to the west and north, and commercial development is present to the north and east. Railroad tracks are located to the south of the Site with agricultural land beyond.
1962	An additional commercial structure is present on the northeast portion of the Site.	Similar to 1960.
1978	Similar to 1962.	Increased commercial development to the east. Many of the residential dwellings to the west and north appear to have been razed and replaced with commercial development.

Year(s)	Study Site Description	Surrounding Property Description
1987	Residential and industrial structures appear to have been razed.	Similar to 1978.
1992 1998 2005 2008	One (1) commercial building has been constructed on the southeast portion of the Site.	Similar to 1987.
2012	Similar to 2008.	One (1) commercial structure on the east adjoining property has been razed.
2016	The commercial structures on the northeast portion of the Site has been razed.	One (1) commercial structure to the north has been razed. The surrounding area appears similar to the current configuration.

#### 4.5.4 Topographic Maps

August Mack obtained copies of historical topographic maps from EDR. A summary of the maps is presented in the table below.

##### Summary of Historical Topographic Maps

Year(s)	Quad	Study Site Description	Surrounding Property Description
1942	Columbus	The western portion of the Site is shaded to indicate dense urban development.	Railroad tracks are present to the north and east. Properties to the north and west are shaded to indicate dense urban development.
1958 1962	Columbus	Most of the Site is shaded red to indicate dense urban development. Railroad tracks are shown on the eastern and southern portions of the Site. One (1) small structure is located on the northeast portion.	Properties to the north and west are shaded red to indicate dense urban development, and labeled as "Lincoln School," "City Hall," and "Court House." Commercial development is present to the east, and railroad tracks and a sewage disposal facility are located to the south.

Year(s)	Quad	Study Site Description	Surrounding Property Description
1979 1980 1988	Columbus	Similar to 1962, with an additional structure depicted on the northeast corner in 1980.	Similar to 1962 with increased commercial/ industrial development to the east.
2013	Columbus	No improvements depicted.	No improvements depicted.

## **5.0 SITE RECONNAISSANCE**

### **5.1 Site Reconnaissance Methodologies**

A Site reconnaissance was conducted on February 25, 2019, by Ms. Kaylee Moore, Environmental Site Assessor for August Mack. At the time of the inspection, the weather was overcast with a temperature of 37 degrees Fahrenheit. The purpose of the inspection was to gather information regarding the environmental conditions at the Study Site and surrounding areas. Ms. Heather Pope, Redevelopment Director for the City of Columbus Redevelopment Commission, provided access to the Study Site and accompanied Ms. Moore during the inspection. The Site reconnaissance involved an inspection of the Site and a brief inspection of the abutting and nearby properties. The borders of the Study Site were observed during the site walk. Photographs taken during the site inspection depicting general Site conditions are provided in Appendix E.

### **5.2 Site Use(s) and General Characteristics**

At the time of the inspection, the Study Site was developed with a commercial warehouse building on the southeast portion. The warehouse is owned by the City of Columbus Redevelopment Commission and is utilized by the City of Columbus for storage. The remainder of the Site consisted of grass and scattered trees. A summary of the Site and Site building is provided in the following tables:

#### **Study Site Summary**

Size of Site:	10.22-acres
General Topography:	Generally flat, with low lying areas on the northeast and southwest portions
Roads:	2nd Street to the north; Lafayette Avenue to the west; and an access road traverses eastern portion of the Study Site from the northwest to southeast
Parking:	Paved parking on the eastern portion of Study Site in the vicinity of the on-Site building
Exterior Storage Areas:	None
Unimproved Areas:	Unimproved grass land throughout the Study Site
Surface Water:	None

### Building Summary

Building Name:	Commercial warehouse (801 2nd Street)
Number of Floors:	One (1) with a mezzanine level; constructed slab on grade
Square Feet:	14,100
Construction Date:	Late 1980s
Potable Water Supply:	Municipal
Sewage Disposal:	Municipal
Heating and Cooling Source:	Electric

### 5.3 Vicinity Characteristics and Use(s) of Adjoining Properties

The Study Site is located in an area of residential and commercial development at the southeast corner of the intersection of 2nd Street and Lafayette Avenue. A summary of the current uses of adjoining properties is presented in the table below.

Location	Description
North	2nd Street followed by a McDonald's restaurant, a bank, a church, and unimproved land to the north; Bartholomew County Court Services to the northwest; and, an insurance company to the northeast
South	Railroad tracks followed former City of Columbus Utilities
East	Vacant gas station and vacant agricultural CO-OP and market
West	Lafayette Avenue followed by Bartholomew County Jail and a law firm

### 5.4 Interior and Exterior Observations

The Study Site building was situated on the southeast portion of the Site. The building primarily consisted of warehouse space, with finished office areas, closets, janitors closet with floor sink, kitchenette, and restrooms on the remaining northwest portion. A mezzanine level was located on the northwest portion of the warehouse that was previously used for household storage.

The City of Columbus currently utilizes the on-Site building for storage space. August Mack observed a city bus, several empty solid waste bins, metal fencing, a tractor, a street sweeper, and various other equipment stored in the warehouse area. The remaining areas were vacated and empty. Drains were observed in the warehouse area and restrooms. A loading dock was observed on the eastern portion.



The exterior portion of the Study Site primarily consisted of grass land and scattered trees. Asphalt parking surrounded the on-Site structure to the west, north, and east. August Mack observed some concrete rubble along the eastern Site boundary, from previous demolished buildings removed from Site. A walking trail was observed along the southern portion of the Study-Site. Several groundwater monitoring wells were observed on the southwest portion of the Study Site. The groundwater monitoring wells are associated with active ongoing monitoring of the Study Site in the Indiana Brownfields Program. In addition, a water spigot, connected to city water line, was observed on the northeast portion of the Study Site. According to Mr. John Gulley with Columbus City Utilities, the water spigot is for routine testing of finished drinking water in the city water line, and is unrelated to they Study Site.

#### 5.4.1 Underground Storage Tanks

No evidence of underground storage tanks (USTs), such as vent or fill pipes, was observed at the Study Site at the time of inspection. According to Ms. Pope, a gas station was formerly located on the north-central portion of the Study Site (711 2nd Street). Regulatory records indicate the gas station formerly utilized two (2) 8,000-gallon gasoline USTs each installed in 1965 and removed in 2010. Additional closure documentation was not available; however, investigations have identified evidence of a petroleum release from the former filling station. Refer to Section 4.3 for additional information.

Regulatory records also indicate two (2) 550-gallon gasoline USTs were removed from the Site in 1988. The USTs were located near the northeast corner of the former Bartholomew County REMC garage, which was located at the northeast corner of the Site. No closure documentation, including confirmatory sample data, was available for review.

A summary of the USTs previously removed from the Site is provided in the following table:

#### Summary

Year Installed	Capacity (gals.)	Contents	Construction Materials	Status	Comments
1965	8,000	Gasoline	Steel	Removed 2010	Based on IDEM records, the tank was located on the north-central portion of the Study Site near the former gas station and car wash.

Year Installed	Capacity (gals.)	Contents	Construction Materials	Status	Comments
1965	8,000	Gasoline	Steel	Removed 2010	Based on IDEM records, the tank was located on the north-central portion of the Study Site near the former gas station and car wash.
1961	550	Gasoline	Steel	Removed 1988	Based on IDEM records, the tank was located on the east exterior portion of a former REMC garage which was located on the northeast corner of the Site.
1981	550	Gasoline	Steel	Removed 1988	Based on IDEM records, the tank was located on the east exterior portion of a former REMC garage which was located on the northeast corner of the Site.

#### 5.4.2 Aboveground Storage Tanks

No aboveground storage tanks (ASTs) were observed on the Study Site at the time of inspection. According to Ms. Pope, she was unaware of any ASTs currently or previously located on the Study Site.

#### 5.4.3 Hazardous Substances and Petroleum Products

No hazardous materials or petroleum products were observed on the Study Site at the time of the inspection. According to Ms. Pope, she spoke with the former General Manager (GM) of the REMC that originally built the building, and operated there until 2008. According to the GM, during former REMC operations, transformer oil was received on-Site from trucks in the loading dock. Used oil from former operations was placed in barrels and taken off Site for proper recycling or disposal.

#### 5.4.4 Solid Waste

At the time of the inspection, no solid waste or solid waste management was observed on the Study Site.

#### **5.4.5 Polychlorinated Biphenyls (PCBs)**

Although no longer commercially produced in the United States, PCBs may be present in products and materials produced before the 1979 PCB ban. Products that may contain PCBs include but are not limited to transformers, capacitors and other electrical equipment, oil used in motors and hydraulic systems, old electrical devices or appliances containing PCB capacitors and fluorescent light ballasts.

One (1) pole-mounted transformer was observed on the north exterior of the Study building at the time of inspection. No label was observed indicating its PCB status; however, it appeared to be in good condition and no staining was observed.

According to historical research and interviews, the northeast and east portions of the Site were occupied by Bartholomew County Rural Electric Membership Corp (REMC) from at least 1961 until approximately 2010. Operations likely included storage and/or maintenance of transformers and other equipment that potential contained PCBs.

#### **5.4.6 Staining, Odors, Pooled Liquids and Stressed Vegetation**

No evidence of staining, odors, pooled liquids, or stressed vegetation was observed on Site at the time of the inspection.

#### **5.4.7 Drains and Sumps**

Floor drains were observed in the interior of the Site building in the restrooms and utility rooms. In addition, trench drains were observed in the warehouse area of the Site building. No staining was observed in the vicinity of the drains. According to Ms. Pope, she spoke with the former General Manager (GM) of the REMC that originally built the building, and operated there until 2008. According to the GM, the trench drains and floor drains were connected to the sanitary sewer.

#### **5.4.8 Pits, Ponds, And Lagoons**

No pits, ponds, or lagoons were observed on the Study Site at the time of the inspection.

#### **5.4.9 Wells**

Several groundwater monitoring wells were observed on the southwest portion of the Study Site. The groundwater monitoring wells are associated with active ongoing monitoring of the Study Site in the Indiana Brownfields Program.

In addition, a water spigot, connected to city water line, was observed on the northeast portion of the Study Site. According to Mr. John Gulley with Columbus City Utilities, the water spigot is for routine testing of finished drinking water in the city water line, and is unrelated to the Study Site.

## **6.0 INTERVIEWS**

### **6.1 Interview with Past and Present Owner**

The Study Site is owned by the City of Columbus Redevelopment Commission. Ms. Heather Pope, Redevelopment Director, has been associated with the Study Site since 2011 and was interviewed as a part of this assessment. Information obtained during the interview has been incorporated throughout this report. An environmental assessment questionnaire completed by Ms. Pope is provided in Appendix B. In addition, Ms. Pope provided a 2012 Phase II Subsurface Investigation completed by American Environmental. A copy of the Phase II is provided in Appendix B and summarized in Section 4.3.

### **6.2 Interview with Key Site Manager**

Ms. Pope was also interviewed as the Key Site Manager.

### **6.3 Interviews with Occupants**

The on-Site building is currently used by the City of Columbus as dry storage. Ms. Pope also represents the occupant.

### **6.4 Interviews with State and Local Government Officials**

The following local government officials were interviewed as part of this assessment.

#### **Interview Summary**

Role:	Health Department
Title:	Environmental Health Specialist
Name	Aaron Sanders
Company:	Bartholomew County Health Department
Method:	E-mail

Comments:	<p>August Mack contacted the Health Department and corresponded with Mr. Sanders on February 20, 2019, regarding potential environmental concerns at the Study Site. Mr. Sanders provided the following files for the Study Site:</p> <ul style="list-style-type: none"> <li>• A 2012 letter from the City of Columbus and associated documentation requesting funds to assist in demolition of Site-structures.</li> <li>• A 2006 letter from IDEM indicating that the Former Columbus Wood Treating Plant (705 2nd Street; southwest portion of the Site) had been accepted in the Voluntary Remediation Program (VRP).</li> <li>• Records for a 1993 spill incident involving transformer oil. The spilled material was reportedly cleaned up by using absorbent material.</li> <li>• A 1993 complaint submitted to the Bartholomew County Health Department reporting an odor. The odor was reportedly caused by a malfunctioning exhaust fan and sewage.</li> <li>• Air quality sampling records from 1993. Carbon dioxide concentrations were found to be acceptable.</li> <li>• A 2010 letter from the City of Columbus indicating that funds had been granted to assist with remediation of the Former Columbus Wood Treating Plant. Planned remedial goals included removal of contaminated soil, placement of clean fill, injection of oxygen into groundwater, installation of groundwater monitoring wells, and recording restrictive covenants to prevent exposure. A 2010 Scope of Work and Cost Estimate report prepared by BCA Consultants Inc. for the proposed remedial activities was also provided.</li> </ul> <p>Copies of the files are included in Appendix G.</p>
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### Interview Summary

Role:	Fire Department
Title:	CFD-Administrative Assistant
Name	Robin McCue
Company:	Columbus Fire Department
Method:	E-mail

Comments:	<p>August Mack contacted the Columbus Fire Department and corresponded with Ms. McCue on March 8th, 2019 regarding potential environmental concerns at the Study Site.</p> <p>Ms. McCue indicated that the fire department maintains records dating back to January 1st, 2006. They have no records of USTs, leaks, spills, or hazardous material information during this time period for the Site.</p>
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## 6.5 Interviews with Others

No other interviews were conducted as a part of this assessment.

## 7.0 EVALUATION

### **7.1 Findings and Opinions**

August Mack Environmental, Inc. (August Mack) has completed a Phase I Environmental Site Assessment (ESA) of the Study Site located at 53 Lafayette Avenue; and, 703, 711, and 801 2nd Street, Columbus, Bartholomew County, Indiana. At the time of inspection, the Study Site encompassed five (5) parcels totaling 10.22-acres, developed with one (1) 14,100-square-foot commercial building, currently occupied by the City of Columbus as storage.

In the professional opinion of the Environmental Professional (EP) all appropriate inquiry has been made into the previous ownership and uses of the Study Site consistent with good commercial and customary practices in an effort to minimize liability. The intent of such an inquiry was to identify Recognized Environmental Conditions (RECs) at the Study Site. According to the American Society of Testing and Materials (ASTM) Standard E1527-13 (Standard Practice for Environmental Site Assessments), a REC is defined as **"the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."** ASTM E1527-13 requires an EP opinion of the impact on the Study Site of conditions identified as findings of the assessment. This opinion is required to include a rationale for concluding that a finding is or is not currently a REC. Based on this requirement, the following findings and related opinions are offered:

#### **On-Site**

- The southwest portion of the Site (addressed as 705 2nd Street) was developed as a coal and coke processing facility from approximately 1885 to 1903 and a wood treating/creosote facility from the 1920s to 1970. Multiple database listings were identified for the Former Columbus Wood Treating Plant, including the Brownfields database. The Study Site addresses of 701 to 703 2nd Street were also identified in regulatory databases in association with the Former Columbus Wood Treating Plant. Investigations began at the Site in 1999. Since approximately 2011, investigation and remediation oversight has been through the Indiana Brownfields Program (IBP). The investigations have revealed volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), and metals in soil and groundwater exceeding applicable IDEM screening levels on the Site and extending off-Site to the west. In 2012, soil removal was completed in the area with greatest soil impacts. Remediation activities included removal and disposal of shallow (less than 10 feet below surface grade [ft bg]) impacted soils, in-situ soil solidification/stabilization of deep impacted unsaturated soils, and removal and disposal of an underground storage tank (UST) and associated contents. Following completion of remedial activities, the treatment area was backfilled with clean overburden soil, covered with an impermeable geomembrane, and capped with clean overburden, topsoil, and

vegetation.

Additional monitoring and investigation has been completed since that time, including quarterly groundwater monitoring of the monitoring well network. According to the most recent sampling event in 2018, dense non-aqueous phase liquid (DNAPL) was encountered in six (6) monitoring wells. In addition, benzene, multiple PAHs, SVOCs, and metals remain at concentrations in excess of IDEM Remediation Closure Guide (RCG) Residential Tap Water Screening Levels (SLs), Residential Vapor Intrusion Groundwater (VIGW) SLs, and/or Commercial/Industrial VIGW SLs. Groundwater impacts are located on the southwest portion of the Site and extend off-Site to the west, with the highest concentrations occurring at the southwest corner of the Study Site. Ongoing monitoring at the Site is currently being overseen by the IBF. **Based on the presence of VOCs, SVOCs, PAHs, and metals in soil and groundwater exceeding IDEM screening levels on the southwest portion of the Site due to historical wood treatment operations, actively being monitored through the Indiana Brownfields Program, it is the opinion of the EP that this finding constitutes a REC.**

- The northern portion of the Site (711 2nd Street) was developed as a car wash and filling station from approximately 1969 to 1992. The facility was listed in several regulatory databases, including the LUST and UST databases. Two (2) 8,000-gallon gasoline USTs were removed in 1992. Petroleum impacts were encountered during the removal and reported to IDEM in 1992. In 2012, the area was further evaluated, which confirmed petroleum impacts remain in soil and groundwater on this portion of the Site in excess of applicable IDEM screening levels. Further investigative activities to fully delineate the soil and groundwater impacts was recommended; however, based on conversations with the current Site owner and review of the IDEM records, additional investigative activities have not been conducted near the former car wash since that time. As such, the LUST incident has not received closure/No Further Action from IDEM. **Based on the presence of petroleum impacts to soil and groundwater exceeding IDEM screening levels on the northern portion of the Site and lack of closure from IDEM, it is the opinion of the EP that this finding constitutes a REC.**
- Bartholomew County REMC originally constructed their facility on the northeastern portion of the Study Site in the 1960s, and expanded south on the the eastern portion of the Site (801 2nd Street) in the 1980s. Bartholomew County REMC operations included storage and/or maintenance of transformers and other equipment that potentially contained PCBs during their occupancy. **Based on the historical use of the facility, it is the opinion of the EP that this finding constitutes a REC.**



- In addition, 801 2nd Street was listed in the UST, Spills, FINDS, FTTS, and Historical FTTS databases as Premier Agricultural Cooperative and Bartholomew County REMC. Two (2) 550-gallon gasoline USTs were removed in 1988. The USTs were located near the former REMC building on the northeast portion of the Site. However, no closure records associated with the UST removal, including confirmatory sample data, was available for review. **Therefore, it is the opinion of the EP that the lack of closure documentation associated with the former USTs represents a significant data gap that constitutes REC.**

## Off-Site

- The north adjoining property at 610 2nd Street was listed in the UST database as Second Street Save 117. The property was developed as a filling station by at least 1972. Three (3) 12,000-gallon gasoline USTs were removed in 2005. Four (4) soil samples and one (1) groundwater sample were collected from the excavation, and all samples were non-detect for constituents of concern. **Based on the removal of the USTs, lack of reported releases, and the analytical results indicating no impacts to soil or groundwater, it is the opinion of the EP that this finding does not constitute a REC.**
- Premier Ag Co-Op Inc./Tom's Food & Fuel at 867 2nd Street (east adjoining) was listed in the UST database with a total of ten (10) USTs that were installed in 1992. IDEM identified multiple violations for the property in 2010 and 2014 because required documents were not submitted. The most recent UST inspection from 2016 indicated the facility has been inactive for an undetermined period of time, however, the USTs were never properly closed. In addition, the facility was without electricity; therefore the UST system had no active leak detection. Based on Site observations and review of aerials, some of the USTs are located within 25-feet of the Study Site boundary. As of January 2019, the facility has been transferred to a new owner but has not yet reopened. **Based on the close proximity of the USTs to the Site, hydraulically upgradient location, and lack of tank monitoring for multiple years, it is the opinion of the EP that this finding constitutes a REC.**
- According to historical records and information obtained from the IDEM VFC, the north adjoining property (identified in the Brownfields database as Papa's Deli at 819 3rd Street) was historically developed as a railroad depot and bulk petroleum plant. Sanborn Fire Insurance Maps depicted oil tanks at the property by 1959, but it may have been a bulk petroleum storage facility as early as 1898. The facility was listed as a bulk oil plant in city directories (808 2nd Street) from 1961 to 1981. Additionally, city directory listings for the north adjoining properties at 804 and 806 2nd Street included automotive repair, printing, and truck rental facilities. The EDR report indicates contaminants identified at the

property included metals, PAHs, VOCs, and petroleum products, however, no investigation reports or further information on the extent of contamination were identified on the IDEM VFC. **Therefore, based on the long-term use of the property as a bulk petroleum storage facility and other occupants of other environmental significance, combined with the unknown extent of reported contamination at the property and hydraulically upgradient location, it is the opinion of the EP that this finding constitutes a REC.**

- The northwest adjoining property at 215 Franklin Street (northwest adjoining) was listed in the UST database. One (1) 500-gallon used oil UST and two (2) 500-gallon new oil USTs were removed in 1989. No information regarding closure sampling or the exact locations of the USTs was available for review. Additionally, a 1986 UST notification form indicates that one (1) 500-gallon "trans fluid" UST was in use at the property. No additional information regarding the status of this UST was available for review. **Given that no releases were reported for the property and that the property is located beyond Lafayette Avenue, hydraulically crossgradient relative to the Site, it is the opinion of the EP that this finding does not constitute a REC.**

## 7.2 Data Gaps

The following data gap was identified during this assessment:

- The lack of closure documentation for two (2) gasoline USTs removed from the northeastern portion of the Site represents a significant data gap.

## 7.3 Conclusions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 of the identified Study Site. Any exceptions to, or deletions from, this practice are described in Section 2.5 of this report. ***This assessment has revealed no evidence of RECs in connection with the Study Site except for the following:***

- ***The presence of VOCs, SVOCs, PAHs, and metals in soil and groundwater exceeding IDEM screening levels on the southwest portion of the Site due to historical wood treatment operations, actively being monitored through the Indiana Brownfields Program.***
- ***The presence of petroleum impacts to soil and groundwater exceeding IDEM screening levels on the northern portion of the Site and lack of closure from IDEM for the related LUST incident.***
- ***The significant data gap regarding the lack of closure documentation for two (2) gasoline USTs removed from the northeastern portion of the Site in 1988.***

- *The historical use of the eastern Site parcel which likely included storage and/or maintenance of transformers and other equipment that potentially contained PCBs.*
- *The use of the north adjoining, hydraulically upgradient property (addressed as 808 2nd Street and 819 3rd Street) as a bulk petroleum storage facility from as early as 1898 to 1981, and unknown extent of impacts reported at the property.*
- *The presence of an inactive filling station on the east adjoining, hydraulically upgradient property, with USTs located within 25-feet of the Site.*

#### **7.4 Limiting Conditions/Deviations**

August Mack did not significantly delete or deviate from the recommended exercises set forth in ASTM Practice E1527-13 for Phase I Environmental Site Assessments when completing this Phase I ESA. The scope-of-work did not include consideration of any potential environmental conditions that are outside the scope of ASTM Practice E1527-13.

## **8.0 NON-SCOPE SERVICES**

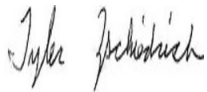
No non-scope considerations were included as part of this assessment.

## **9.0 ENVIRONMENTAL PROFESSIONAL STATEMENT**

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part §312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. The resumes of the Environmental Professional and others involved with this project are included in Appendix F.

Prepared by:

August Mack Environmental, Inc.  
1302 N. Meridian Street, Suite 300  
Indianapolis, Indiana 46202  
317-916-8000

A handwritten signature in black ink, appearing to read "Tyler Zschiedrich".

Tyler Zschiedrich  
Environmental Professional

## **10.0 REFERENCES**

Certified Sanborn Map Report (Inquiry Number: 5567149.3). (2019, February 20). Shelton, CT: Environmental Data Resources Inc.

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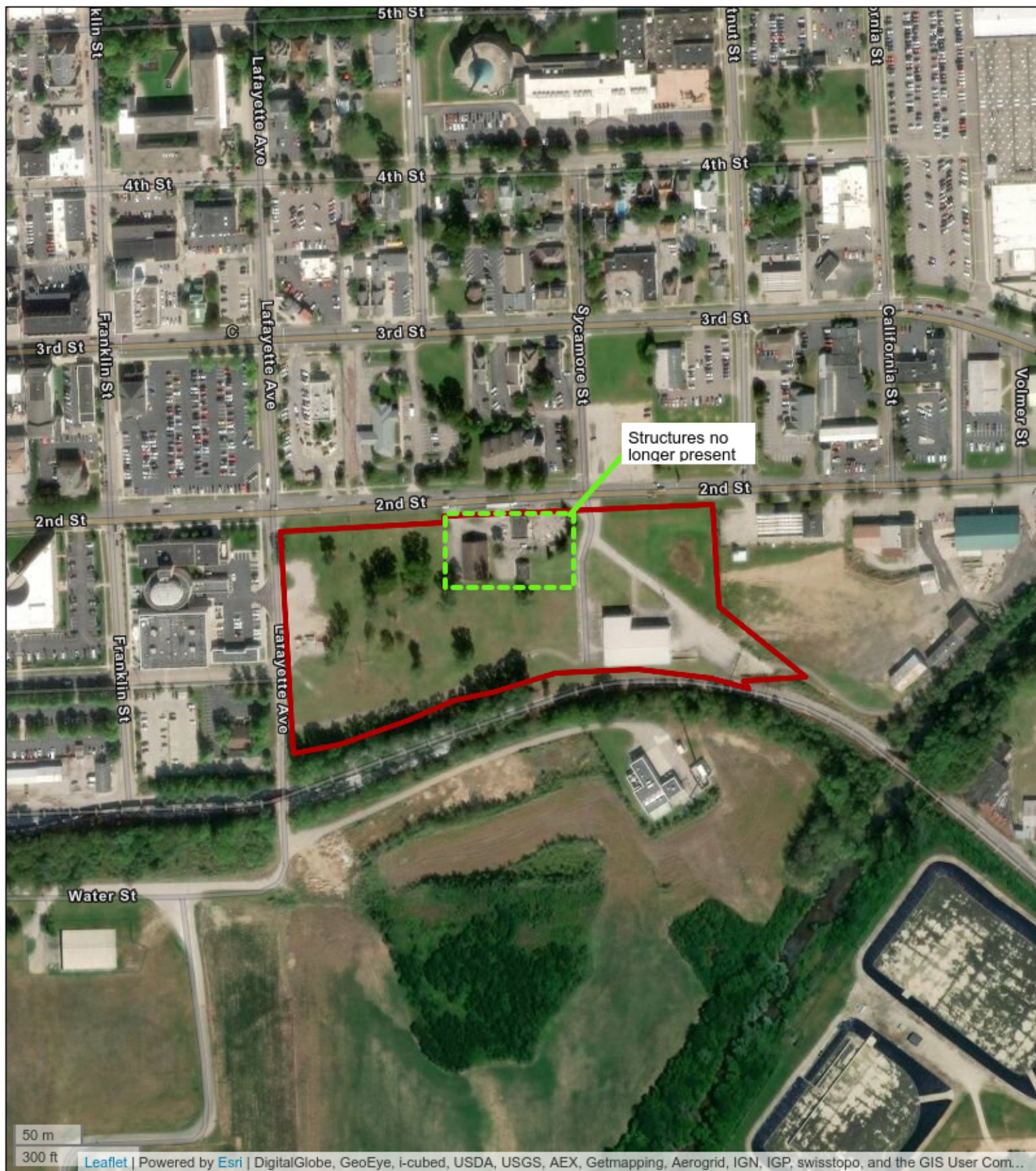
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Sanders, Aaron. (2019, February 20). Bartholomew County Health Department [E-mail interview].

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# **Appendix A - Figures**





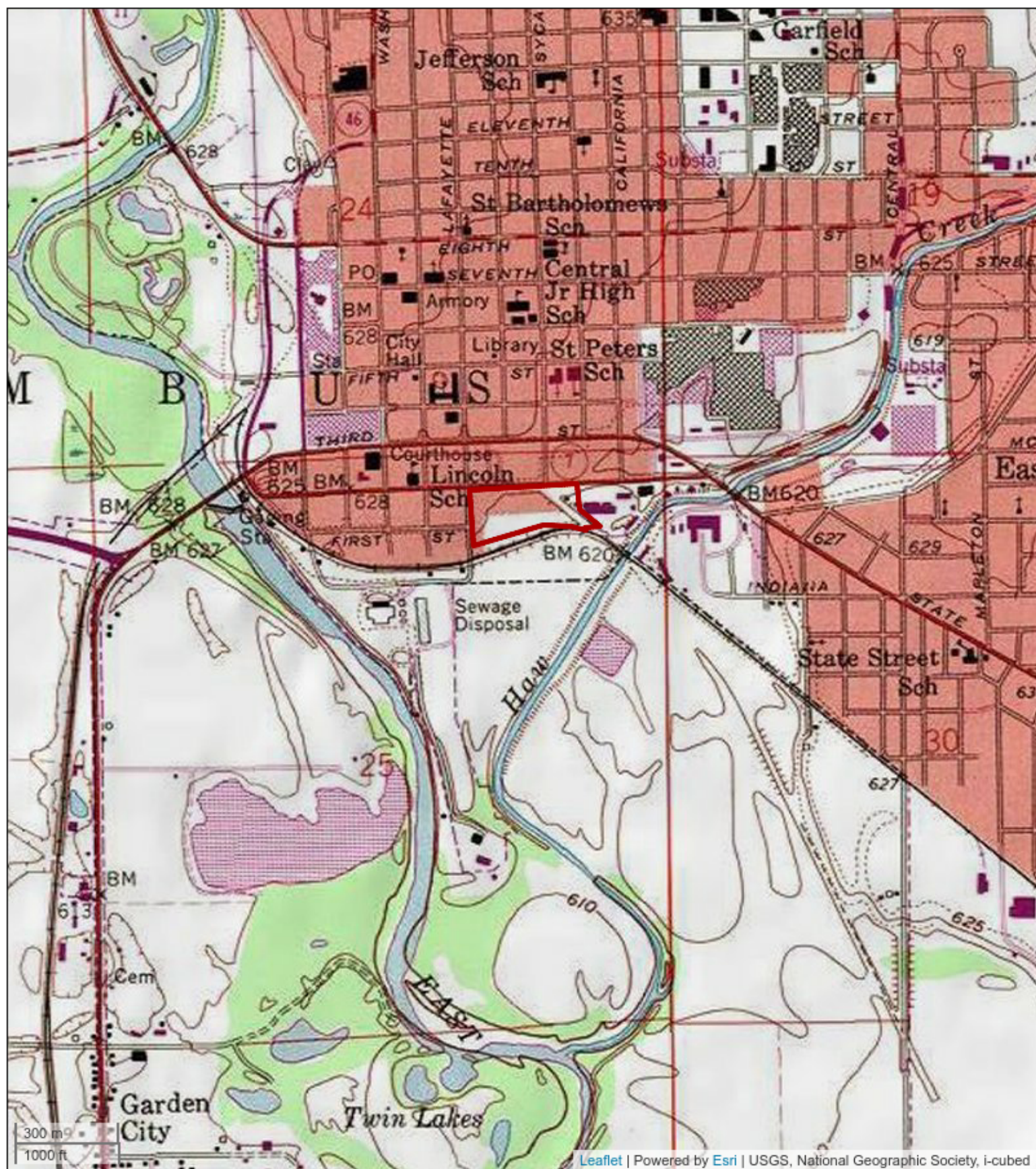
### Aerial Photograph

JT0460.710.001

53 Lafayette Avenue; and, 703, 711, and 801 2nd Street, Columbus, IN







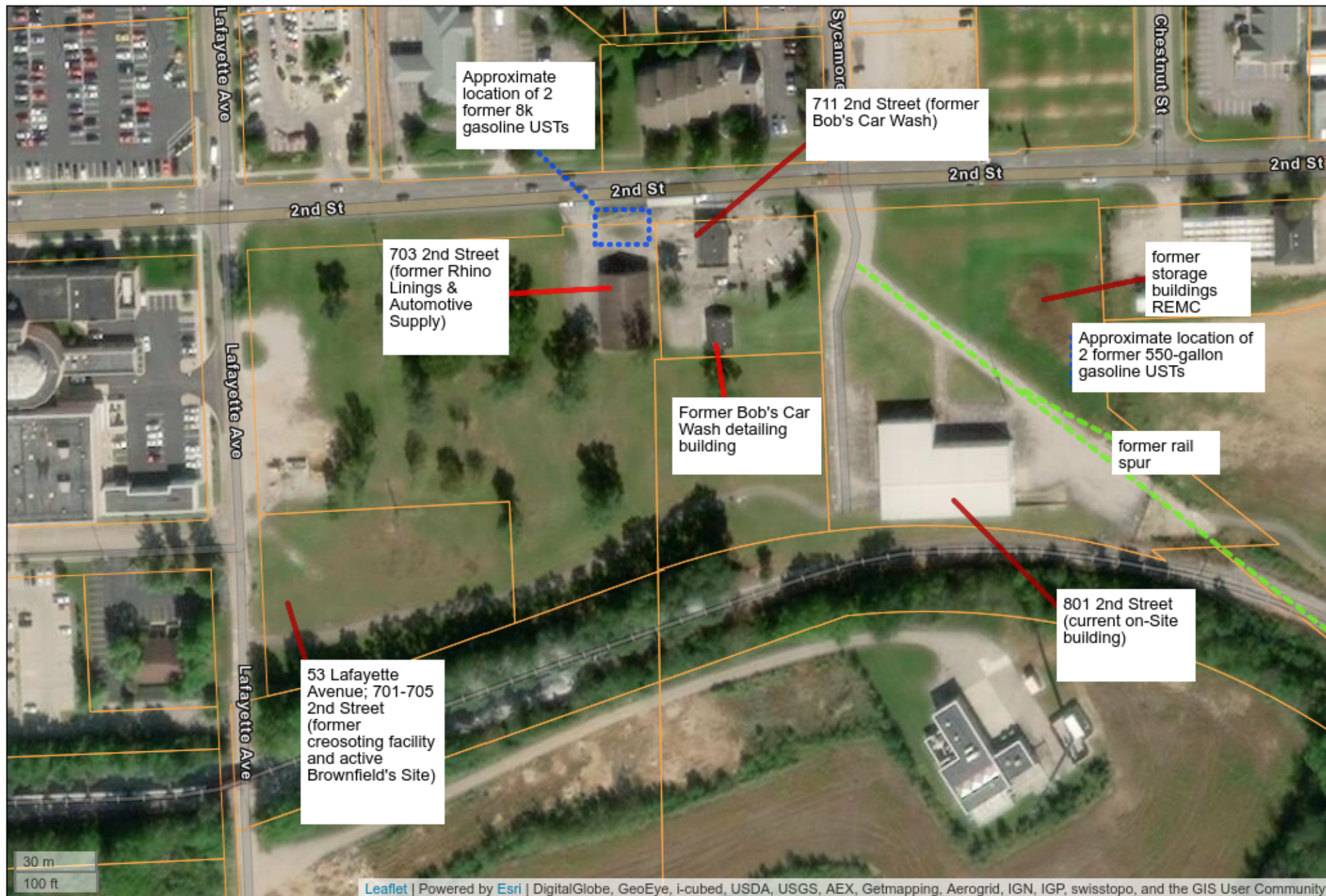
### Topographic Map

JT0460.710.001

53 Lafayette Avenue; and, 703, 711, and 801 2nd Street, Columbus, IN







Detailed Map

# **Appendix B - User/Owner Provided Information**





317.916.8000 • www.augustmack.com  
1302 North Meridian Street, Suite 300 • Indianapolis, Indiana 46202

Name: HEATHER POPE, DIRECTOR OF COLUMBUS REDEVELOPMENT  
Property Location: 801 2ND ST., 703 2ND ST., 711 2ND ST., 53 LAFAYETTE AVE.  
Company/Affiliation with property: CITY OF COLUMBUS, REDEVELOPMENT COMMISSION

Length of time owned and/or affiliated with the property?

COLUMBUS DOWNTOWN, INC. RECEIVED OWNERSHIP IN 2011.

What are the current and past uses of property?

VACANT - 801 2ND ST. STILL HAS A 14,100<sup>sq</sup> STORAGE BLDG. ON SITE. CURRENTLY USED FOR <sup>DRY</sup> STORAGE BY THE CITY GARAGE. 711 2ND ST. USED TO BE A CAR WASH. PRIOR TO THAT IT WAS A GAS STATION.

801 2ND ST. - 14,100<sup>sq</sup> - I THINK IT WAS BUILT IN MID-80'S.

If the property is currently vacant or undeveloped, do you know of any prior improvements?

703 2ND ST + 53 LAFAYETTE - FORMER WOOD TREATING PLANT + RESIDENTIAL. 711 2ND ST. - FORMER GAS STATION, CAR WASH, CAR ACCESSORIES. 801 2ND ST. - FORMER RURAL ELECTRIC OFFICE + OPERATIONS IN-

Are you aware of any current or previous wells, septic systems, underground storage tanks, or other subsurface features associated with the property? INCLUDING TRANSFORMER STORAGE

711 2ND ST. - FORMER GAS STATION HAD AN UST. I BELIEVE IT WAS REMOVED ~~IT~~ NOT SURE OF YEAR IT WAS REMOVED.

Do any utilities currently service the property?

801 2ND ST. - ELECTRIC, WATER, SEWER

ALL OTHER SITES DO NOT HAVE ANY UTILITIES OPERATIONAL.

Are you aware of any fill material that has been placed on the property? If so, do you know the source of the fill?

RUMOR HAS IT THAT FOUNDRY SAND IS PLACED AT 703 2ND ST., 711 2ND ST., 53 LAFAYETTE AVE. RUMOR IS THE SAND CAME FROM GOLDEN FOUNDRY THAT WAS LOCATED ON 10TH STREET

Are any petroleum products, hazardous substances, or other chemicals used or stored on the property? If so, please summarize use and disposal practices.

NONE ARE CURRENTLY STORED ON SITE.

+ COTTAGE AVE.

Are you aware of any environmental related issues at the property, such as soil or groundwater contamination, caused by a release of hazardous substances or petroleum products on the property or adjacent area?

53 LAFAYETTE IS A BROWNFIELD SITE. 703 2ND ST. HAD SOMETHING BUT IS BELIEVED TO BE ACCEPTABLE FOR BLDG. COMMERCIAL. 711 2ND ST. HAD MINOR PETROLEUM DETECTION.

Have any previous environmental due diligence investigations or subsurface investigations of the soil or groundwater been conducted at the property, such as a Phase I or Phase II Environmental Site Assessment? If so, what were the findings and can you provide copy(ies) of reports summarizing the previous investigations?

ATTACHED YOU WILL FIND OUR INVESTIGATION RESULTS ON FINDINGS ESA REPORTS - SOURCE - IDEM VFC + OLD FILES

Are you aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

NO

Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

NO

Are you aware of any environmental liens or activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site or have been filed or recorded against the property?

RUMOR HAS IT THE USES RESTRICTED TO THE 703 2ND ST PROPERTY IS COMMERCIAL ON GROUND FLOOR, NO DRINKING WELLS, NO DAYCARES, RESIDENTIAL ALLOWED ON 2ND FLOOR + ABOVE. WE HAVE NOT FOUND ANY

Signed: Heather Pope

Date: 2/22/19

ERC'D.

Printed Name: HEATHER POPE

# 53 LAFFAYETTE

Date	Phase 1	Phase 2	Other	Status
8/23/2011			Delineation Smampling	
9/20/2011			RWP	
10/27/2011			Proposed monitoring wells	
12/12/2011	X		Remedial activities conducted	
1/24/2012			Sampling and Analysis Plan	
3/15/2012			RWP Addendum 2 -to	
9/6/2013			receive No Further Action	
2/18/2014			letter	
11/28/2018				PC concentrations aboce IDEM RCG 2018 SLs are present in shallow and deep monitoring wells and extend off-Site ot the wet. Request for Closure will be submitted to Brownfields after 4th quarter 2018 monitoring.

# 701-705 2nd. St.

Date	Phase 1	Phase 2	Other
5/13/1999	X		3 Permanent Monitoring Wells
10/1/1999		X	
4/22/2002		X	11 borings
3/19/2008	X		
9/29/2008			Eligible for Voluntary Remediation Program (VRP)
12/1/2008		X	
5/12/2009	X		
10/13/2009			Environmental Restrictive Covenant (ERC)
10/13/2009			Comfort Letter
4/15/2010		X	
1/7/2011		X	Revised Remediation Work Plan (RRWP)
5/6/2011			Conditional Approval of RRWP
7/27/2011			Sampling and Analysis Plan

# 711 2nd. St.

Date	Phase 1	Phase 2	Other
7/30/1992	X		
11/12/1999			LUST
5/12/2009	X		
7/20/2012		X	Phase 2 recommended
2/16/2017	X		



# 801 2nd St.

Date	Phase 1	Phase 2	Status
2/11/2003	X		
5/5/2009	X		
12/17/2009		X	
4/17/2013			Pre-Demo Asbestos Survey



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

October 13, 2009

Federico J. d'Escoto  
Managing Partner  
Columbus Athletic and Event Center, LLC  
One East Erie Street, Suite 520  
Chicago, Illinois 60611

Re: Comfort Letter  
Lot 2B  
701 2<sup>nd</sup> Street  
Columbus, Bartholomew County  
BFD #4080515

Dear Mr. d'Escoto:

In response to the request by the Columbus Athletic and Event Center, LLC (CAEC or Prospective Purchaser) for assistance concerning Lot 2B at 701 2<sup>nd</sup> Street in Columbus (Site), the Indiana Department of Environmental Management (IDEM) has agreed to provide this Comfort Letter to outline applicable limitations on the liability of and clarify the reasonable steps IDEM considers appropriate for the Prospective Purchaser to take with respect to hazardous substances and petroleum products found on the Site. This letter does not provide a release from liability, but provides specific information with respect to some of the criteria the Prospective Purchaser must satisfy to qualify for relief from potential liability related to hazardous substances contamination under the bona fide prospective purchaser (BFPP) exemption under section 101(40) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 42 U.S.C. §§ 9601 *et. seq.*, and Indiana Code (IC) § 13-25-4-8(b) (incorporating 42 U.S.C. § 9607(r)) and potential liability for petroleum contamination under the BFPP exemption under IC § 13-23-13 and IC § 13-24-1 (applying 42 U.S.C. § 9607(r) to petroleum contamination). This letter will address the reasonable steps IDEM recommends the Prospective Purchaser undertake to prevent or limit human, environmental, and/or natural resource exposure to previously released hazardous substances and petroleum products found at the Site.

As part of the CAEC's request for assistance in determining the existing environmental impacts and potential liability at the subject property, IDEM's Brownfields Program staff has reviewed the following reports:

- *Phase I Environmental Site Assessment* (2009 Phase I), Haley & Aldrich, Inc. (Haley & Aldrich), dated May 12, 2009

- *Phase I Environmental Site Assessment, Vacant Parcel & Rhino Lining*, American Environmental Corporation (American), dated March 19, 2008
- *Investigation Report Former Wood-Treating Facility Columbus, Indiana* (Investigation Report), Haley & Aldrich, dated March 2008
- *Draft Report-Subsurface Investigation*, August Mack Environmental, Inc., (August Mack), dated June 2002
- *Phase II Site Investigation, Former Columbus Wood Preserving Plant*, SIECO, Inc. (SIECO), dated October 1999
- *Phase I Environmental Site Assessment*, SIECO, dated May 1999

The 4.94-acre Site is owned by Columbus Downtown, Inc. and consists of approximately 4.5 acres of vacant land and 0.4-acres of developed land that is leased and operated as Rhino Linings Sales and Service (Rhino Linings). The Rhino Linings property contains a single structure located in the northeast corner of the Site. The Site is bordered on the north by 2<sup>nd</sup> Street, to the west by Lafayette Street, to the east by Bob's Car Wash and the Bartholomew County REMC. South of the Site is the Louisville & Indiana Railroad (LIR) and just beyond the LIR, approximately 2,000 feet to the west/southwest, is the east fork of the White River. Redevelopment plans for the property are for the Columbus Indoor Sports Complex (Sports Complex).

### **Recognized Environmental Conditions**

According to the Phase I reports prepared for the Site, the following recognized environmental conditions (RECs) have been identified for the Site:

1. Bob's Car Wash, off-Site to the northeast, has two registered 8,000 gallon diesel underground storage tanks (USTs) in the IDEM database.
2. Operations at Rhino Linings involve the storage and application of product material consisting of solvents and petroleum distillates. Storage and use of these products have occurred on-Site since 1997.
3. Historical literature suggests that railroad and stockyard related activities were conducted on a former larger parcel of property of which the Site is now one part from approximately 1885 to 1903. In 1904, a creosoting plant was constructed in the southwest portion of the former larger parcel. The Columbus Wood Treating Facility (CWTF), a.k.a the Columbus Creosoting Company or the Columbus Wood Preserving Company, subsequently conducted operations at the creosote plant location from the 1920s until 1971 when the facility was destroyed by fire and never rebuilt. Based on a 1927 Sanborn Fire Insurance Map, it appears that the majority of the creosoting operations were conducted on the present off-Site parcel "Lot 3." Assessment activities on the Site revealed that soil and groundwater on the Site is impacted with volatile organic compounds (VOCs) polyaromatic hydrocarbons (PAHs) and total petroleum hydrocarbons (TPH) that exceed IDEM's January

2006/July 2009 update Risk Integrated System of Closure (RISC) residential default closure levels (RDCLs) and industrial default closure levels (IDCLs).

4. The majority of the Site is covered with black foundry sand to depths of 7-12 feet below ground surface (bgs). Foundry sand is typically associated with high levels of metals.

Although not noted as a REC in any of the Phase I reports, a former gasoline station (Highway Oil Company/Kiel Bros. Tobacco Road – IDEM UST Facility ID #7469 (Former Gas Station)), located at 610 2<sup>nd</sup> Street, was identified as being located north and adjacent across 2<sup>nd</sup> Street and upgradient of the Site. A gasoline station had operated on the property since 1972 when it was redeveloped from residential to commercial use. Three-10,000 gallon steel gasoline/diesel USTs were removed in May 2005 from the Former Gas Station. Soil closure samples collected during the removal of the USTs were invalidated by IDEM's Science Services/Chemistry Section for incorrect sample analyses. Subsequent environmental samples were collected in February 2006 by Astbury Environmental Engineering, Inc. in association with the site redevelopment. One soil sample (B-8) was collected south of the former USTs and one groundwater sample (B-7) was collected upgradient from the gasoline station property. Results of the February 2006 sampling did not detect any contaminants above IDEM RDCLs. However, the sampling as conducted was insufficient to definitively prove or dismiss the Former Gas Station as a source of the petroleum contamination in on-Site boring B-18, located near the northern Site border and directly downgradient from the gasoline station property.

#### **Summary of Known Environmental Conditions Related to the Identified RECs**

The following is a summary of the investigations undertaken at the Site to address the RECs identified for the Site and the results of those investigations:

1. A leaking underground storage tank (LUST) incident (#199207532) was reported in 1992 after the USTs were removed from Bob's Car Wash. According to the IDEM database, the low priority, soils-only impact incident was given a discontinued status<sup>1</sup> in 1999.
2. According to the 2008 Phase I, the Rhino Linings facility was developed in 2000 on previously undeveloped land. The 2,800 square foot building consists of a showroom/lobby and a garage area for the application of truck bed liners. The chemicals used during the application are stored in above ground 55-gallon drums located within the building. Suspected asbestos containing materials was the only REC identified during a walk-through of the facility. No subsurface investigations have been conducted at the property occupied by Rhino Linings. No evidence of USTs was identified at the Rhino Linings facility.

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<sup>1</sup> According to the IDEM Leaking UST Section, a discontinued status means that a release is low risk, but inadequate information exists to grant a no further action status.

3. The CWTF was built by William G. Irwin in 1904 on property that was recently parceled off by Columbus Downtown, Inc. as Lot 3 and is now located south and west of the Site (Lot 2B). Several subsurface investigations have occurred on the Site related to operations of the CWTF including:
  - a) In September 1999, SIECO advanced eleven soil borings (B-1 through B-11) to an average depth of 20 feet bgs. Five (B-1, B-2, B-3, B-4 and B-5) of the 11 borings are located within the proposed boundary of the Sports Complex. Soil samples from the borings were analyzed for VOCs, semi-volatile organic compounds (SVOCs), and TPH and the results are displayed in Table 1. Groundwater samples were collected and analyzed for VOCs from temporary monitoring wells installed in the borings. All of the groundwater analytical results were below detection limits for the constituents sampled.

**TABLE 1**  
**SIECO - September 1999**  
**Soil Sample Results above RISC RDCLs and/or IDCLs**

Contaminant	Sample Location/Depth & Results parts per million (ppm)			RDCL	IDCL	IDCL Direct Contact	Construction Worker
	B-3 (7-8 feet bgs)	B-4 (9-10 feet bgs)	B-5 (19-20 feet bgs)				
naphthalene	4.7	<5.0	<0.5	0.7	170	8,000	17,000
2-methylnaphthalene	4.4	<5.0	<0.5	3.1	42	1,600	3,300
ideno(1,2,3-cd) pyrene	<0.5	<b>5</b>	<0.5	3.1	3.1	15	790
benzo(a)anthracene	<0.5	6.4	<0.5	5	15	15	790
benzo(b)fluoranthene	<0.5	<b>16</b>	<0.5	5	15	15	790
benzo(a)pyrene	<0.5	<b>9.4</b>	1.03	0.5	1.5	1.5	79

Note: **bold** = >IDCL

- b) In April 2002, August Mack advanced eleven soil borings (B-12 through B-22); two of the borings (B-18 and B-21) were located within the Site boundary. Soil and groundwater samples collected from the borings were analyzed for TPH-gasoline range organics (GRO), and TPH-diesel range organics (DRO), VOCs, SVOCs, and the Resource Conservation and Recovery Act (RCRA) Appendix 9 metals. Groundwater samples were collected from push-probe rods via screened rod intervals. Soil and groundwater results are displayed in Tables 2 and 3, respectively.

**TABLE 2**  
**August Mack - April 2002**  
**Soil Sample Results above RISC RDCLs and/or IDCLs**

Contaminant	Sample Location/Depth & Results parts per million (ppm)		RDCL	IDCL	IDCL Direct Contact	Construction Worker
	B-18 (2-4 feet bgs)	B-21 (10-12 feet bgs)				
naphthalene	0.78	<b>200</b>	0.7	170	8,000	17,000
arsenic	<b>6.3</b>	<b>6.8</b>	3.9	5.8	20	320

Note: **bold = >IDCL**

**TABLE 3**  
**August Mack - April 2002**  
**Groundwater Samples above RISC RDCLs and/or IDCLs**

Contaminant	Sample Location/Depth & Results parts per billion (ppb)		RDCL	IDCL
	B-18 (19-23 feet bgs)	B-21 (12-16 feet bgs)		
TPH-DRO*	1,200	1,600	260	2,500
arsenic	<b>&lt;100</b>	<b>240</b>	10	10
chromium**	<10	120	100	310
lead	<b>&lt;50</b>	<b>120</b>	15	42
selenium	<100	290	50	510
dibenzofuran	29	68	15	200
naphthalene	220	170	8.3	2,000
phenanthrene	66	120	23	310
2-methylnaphthalene	41	59	31	410

Notes: **bold = >IDCL**

\*= IDEM RISC TPH Closure Level July 2009 Update

\*\*compared to chromium VI

- c) In April 2007, Haley & Aldrich installed 27 soil borings (MW-1 through MW-6, MW-7D, MW-8 through MW-12, and HAB-1 through HAB-15). Groundwater sampling was conducted in eleven shallow monitoring wells (MW-1 through MW-6 and MW-8 through MW-12) and one deeper monitoring well (MW-7D) on and around the Site. Sampling activities for soil and groundwater were conducted in May 2007, June 2008 and July 2008. The results of those investigative sampling points on the Site that exceeded RISC RDCLs and/or IDCLs are displayed on Table 4.

**TABLE 4**  
**Haley & Aldrich May 2007/June 2008**  
**Soil Sample Results above RISC RDCLs and/or IDCLs**

Contaminant	Sample Location/Depth & Results parts per million (ppm)			RDCL	IDCL	IDCL Direct Contact	Construction Worker
	HAB-3 (22-22.5 ft)	HAB-6 (4-4.25 ft)	HAB-7 (4.5-5.0 ft)				
naphthalene	1.14	<0.005	<0.005	0.7	170	8,000	17,000
pentachlorophenol	<b>&lt;1.78</b>	<b>&lt;1.70</b>	<b>&lt;1.72</b>	0.028	0.66	54	3,800
TPH-GRO	374	<16	<16.1	120	1,500	--	10,000

Contaminant	Sample Location/Depth & Results parts per million (ppm)					RDCL	IDCL	IDCL Direct Contact	Construction Worker
	HAB-8 (0-0.5 ft)	HAB-8 (12-12.5 ft)	HAB-9 (11-11.5 ft)	HAB-10 (0-0.5 ft)	HAB-11 (0-0.5 ft)				
arsenic	11.5	4.3	5.4	<2	<2	3.9	5.8	20	320
pentachlorophenol	<b>&lt;1.68</b>	<b>&lt;1.93</b>	<b>&lt;1.95</b>	<b>&lt;1.67</b>	<b>&lt;1.70</b>	0.028	0.66	54	3,800
benzo(a)pyrene	0.41	<0.40	<0.40	<0.34	0.68	0.5	1.5	1.5	79

Note: **bold** =>IDCL

### Summary of Results/Conclusions

Columbus Downtown, Inc. parceled off the property on which CWTF formerly operated (now Lot 3) from the future Sports Complex property (now Lot 2B). Previous Site investigations show levels of contaminants in soil and groundwater on the future Sports Complex property normally associated with historic wood preserving operations. These contaminants include both petroleum constituents and hazardous substances. Tables 1, 2, 3, and 4, show levels of contaminants detected above RDCLs and/or IDCLs established by IDEM in RISC. Soils at 13 boring locations contained naphthalene, 2-methylnaphthalene, ideno(1,2,3-cd)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, pentachlorophenol, arsenic, and/or TPH-GRO above RISC IDCLs. The detections above RISC IDCLs, however, were in soil at depths that allow for closure to be evaluated by comparing detected levels to RISC Industrial Direct Contact or Construction Worker default closure levels rather than IDCLs and the levels detected in the soil on the Site do not exceed the applicable alternative closure levels. All

contaminants detected in soil on the Site therefore meet non-default IDEM RISC commercial/industrial closure levels. However, as part of a non-default commercial/industrial RISC closure, an environmental restrictive covenant (ERC) including land use restrictions must be recorded on the deed for the Site to protect against exposure to the contaminants identified in soil on the Site above RISC RDCLs and/or IDCLs.

Groundwater sample results showed that TPH-GRO, arsenic, chromium, lead, selenium, dibenzofuran, naphthalene, phenanthrene, and 2-methylnaphthalene were detected above RISC RDCLs. Additionally, arsenic and lead in groundwater also exceeded IDEM RISC IDCLs in boring B-21 and potentially in boring B-18 (the laboratory detection limits for the sample exceeded RISC IDCLs). Investigations also showed that the bulk of the groundwater contaminants related to the former CWTF operations are concentrated in an adjacent, off-Site area to the south and west of the location of the future Sports Complex. In light of the groundwater flow direction in the vicinity of the Site generally being to the south/southwest, IDEM has concluded that if the indentified contaminants are migrating, they are migrating away from, and not toward, the Site.

### **Liability Clarification**

IDEM's "Brownfields Program Comfort and Site Status Letters" Nonrule Policy Document, W-0051 (April 18, 2003) (Comfort and Site Status Letter Policy), provides that IDEM may issue a letter to a stakeholder involved in redevelopment of a brownfield if the stakeholder satisfies certain eligibility criteria outlined below. IDEM concludes, based in part on information provided by the Prospective Purchaser, that:

- (1) no state or federal enforcement action at the Site is pending;
- (2) no federal grant requires an enforcement action at the Site;
- (3) no condition on the Site constitutes an imminent and substantial threat to human health or the environment;
- (4) neither CAEC nor an agent or employee of CAEC caused, contributed to, or knowingly exacerbated the release or threat of release of any hazardous substance or petroleum at the Site; and,
- (5) the CAEC is eligible for an applicable exemption to liability, specifically the bona fide prospective purchaser (BFPP) exception to liability for hazardous substance contamination found in CERCLA § 107(r) and IC §13-25-4-8(b) and for petroleum contamination under IC §§ 13-23-13 and 13-24-1, provided the applicable statutory criteria are met.

As discussed below, the Prospective Purchaser has demonstrated to IDEM's satisfaction that it is eligible for the BFPP exemption from liability for hazardous substance and petroleum contamination provided it takes the "reasonable steps" required by statute, recommendations for which are discussed below.



### **Bona Fide Prospective Purchaser – Hazardous Substance & Petroleum Contamination**

Under IC § 13-25-4-8(a), which bases liability on Section 107(a) of CERCLA, a person that is liable under § 107(a) of CERCLA is liable to the state in the same manner and to the same extent. Under § 107 (r) of CERCLA and IC § 13-25-4-8(b), a BFPP is not liable under § 107(a) as long as the BFPP does not impede the performance of a response action or natural resource restoration. 42 U.S.C. § 9607(r). Thus a prospective purchaser that satisfies CERCLA §§ 101(40) (defining bona fide prospective purchaser) and 107(r) would not be liable under CERCLA § 107(a) or IC § 13-25-4-8(a). Similarly, a prospective purchaser that satisfies CERCLA §§ 101(40) and 107(r) would not be liable under IC §§ 13-23-13 and 13-24-1 for petroleum contamination existing on the Site.

The BFPP provisions of CERCLA require a person to meet the criteria of CERCLA §§ 101(40) and 107 (r) to be protected from liability. If the Prospective Purchaser satisfies these criteria, IDEM is prohibited from pursuing the Prospective Purchaser even if cleanup requirements change or if IDEM determines that a response action related to existing known hazardous substances or petroleum contamination from prior releases at the Site is necessary. Furthermore, the Prospective Purchaser's satisfaction of CERCLA §§ 101(40) and 107(r) prohibits IDEM from pursuing it for response costs relating to the past release of hazardous substances or petroleum contamination at the Site. Therefore, IDEM will not require the Prospective Purchaser to respond to the past release of hazardous substances or petroleum contamination found at the Site beyond the scope of the statutorily-required reasonable steps outlined below, even if cleanup requirements change or if IDEM determines that a response action is necessary in the future. This decision, however, does not apply to past or present hazardous substance or petroleum contamination that is not described in this letter, future releases, or applicable requirements under the Resource Conservation and Recovery Act, 42 U.S.C. § 6901.

To meet the statutory criteria for liability protection as a BFPP, a landowner must meet certain threshold criteria and satisfy certain continuing obligations. IDEM notes that the Prospective Purchaser will acquire ownership of the Site after January 11, 2002 (and after June 30 2009), and the disposal of hazardous substances and petroleum at the Site will have occurred prior to it acquiring the Site. See 42 U.S.C. § 9601(40)(A). Based on information reviewed by IDEM, IDEM concludes that the Prospective Purchaser has conducted all appropriate inquiries into the previous ownership and uses of the Site. See 42 U.S.C. § 9601(40)(B)(i). Furthermore, the Prospective Purchaser has represented that it is not potentially liable or affiliated with any person that is potentially liable for contamination at the Site, and IDEM has no information to the contrary. See 42 U.S.C. § 9601(40)(H). Therefore, the Prospective Purchaser meets the threshold requirements of CERCLA §§ 9601(40) (A), (B) and (H) to qualify for the status of BFPP under 42 U.S.C. § 9601(40).

The continuing obligations the Prospective Purchaser must undertake to maintain BFPP status are outlined in 42 U.S.C. §§ 9601(40) (C)-(G) and include exercising "appropriate care with respect to hazardous substances found at the facility by taking reasonable steps to – (i) stop any continuing release; (ii) prevent any threatened future release; and (iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous substance." 42 U.S.C. § 9601(40)(D). By extension, under IC §§ 13-11-2-148(h), 13-11-2-150(f), and 13-11-2-151(g), the continuing obligations the Prospective Purchaser must undertake to maintain BFPP status are outlined in 42 U.S.C. §§ 9601(40) (C)-(G) and include exercising appropriate care with respect to petroleum products found at the facility by taking reasonable steps to – (i) stop any continuing release; (ii) prevent any threatened future release; and (iii) prevent or limit human, environmental, or natural resource exposure to any previously released petroleum product. Furthermore, the Prospective Purchaser recognizes that in order to maintain the status of BFPP, it will have to continue to provide the cooperation, assistance and access required by 42 U.S.C. § 9601(40) (E). In addition, the Prospective Purchaser will have to maintain compliance with land use restrictions established for the Site, and not impede the implementation or the effectiveness of any institutional control as required by 42 U.S.C. § 9601(40) (F). To maintain BFPP status, the Prospective Purchaser must also comply with 42 U.S.C. § 9601(40) (C) regarding notices and 42 U.S.C. § 9601(40) (G) regarding requests for information or administrative subpoenas.

### **Reasonable Steps**

For this Site, IDEM believes the following to be appropriate reasonable steps for the Prospective Purchaser to undertake with respect to the hazardous substances and petroleum contamination found at the Site in order to qualify as a BFPP, as well as to satisfy the eligibility requirements for issuance of this letter under the Comfort and Site Status Letter Policy.

- Implement and maintain all land use restrictions required by this letter.
- Upon becoming aware of such information, communicate to IDEM any newly-obtained information about existing hazardous substance or petroleum contamination or any information about new (or previously unidentified) contamination.

Implementation of the above-enumerated reasonable steps, in addition to ongoing satisfaction of the additional statutory conditions will, with respect to IDEM, satisfy the statutory conditions for the BFPP protection. Please be advised that any work performed at the subject property must be done in accordance with all applicable environmental laws in order to ensure no inadvertent exacerbation of existing contamination found on the Site which could give rise to liability.

### **Institutional Controls**

The fact that impacts to both soil and groundwater above RISC RDCLs have been identified on the Site requires recording of an ERC on the deed for the Site to ensure no exposure to on-Site contamination. In order to qualify for liability protection as a BFPP, and as a condition of issuance of this letter under the Comfort and Site Status Letter Policy, the

Prospective Purchaser must record the enclosed ERC on the deed for the Site following acquisition. The ERC must include the following land use restrictions, stated below in general terms:

- The Site shall not be used for agricultural or residential purposes, including, but not limited to, daily care facilities (e.g., daycare centers, schools and senior citizen facilities).
- No groundwater from beneath the Site shall be used for any purpose. No wells can be installed for any purpose other than contaminant assessment or monitoring without IDEM approval.
- No soil can be excavated from anywhere on the Site without first submitting a work plan for approval by IDEM prior to beginning work and soil that is removed, excavated or disturbed from the Site must be managed and disposed of in accordance with all applicable federal and state laws and regulations.

## **Conclusion**

IDEM encourages the commercial/industrial redevelopment of the Site. Should additional information gathered in conjunction with future Site investigations conclude and/or remediation show that a particular restriction is no longer necessary to protect human health and the environment or that Site conditions are appropriate for unrestricted use, IDEM will, upon request, consider modification or termination of the ERC recorded on the deed for the Site and or the adjacent City owned property to the south pursuant to its terms and conditions. Conversely, it is also possible that new land use restrictions may be necessary in the future due to new information or changed circumstances at the Site.

Pursuant to the Comfort and Site Status Letter Policy, the determinations in this letter are based on the nature and extent of contamination known to IDEM as of the date of this letter, as a result of review of information submitted to or otherwise reviewed by IDEM. If additional information regarding the nature and extent of contamination at the Site later becomes available, additional measures may be necessary to satisfy the reasonable steps requirements of BFPP status. In particular, if new areas of contamination or new contaminants are identified, the Prospective Purchaser must communicate this information to IDEM upon becoming aware of it and should ensure that reasonable steps are undertaken with respect to such contamination in order not to jeopardize BFPP status.

This letter shall not be construed as limiting a Prospective Purchaser's ability to rely upon any other defenses and/or exemptions available to it under any common or environmental law, nor shall it limit any ongoing obligations of the Prospective Purchaser that are required to maintain the status of BFPP or the benefit of the issuance of this letter. Furthermore, the terms and conditions of this letter shall be limited in application to this letter recipient and this Site, and shall not be binding on IDEM at any other Site.

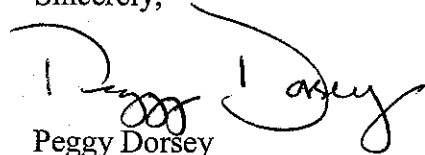
If at any time IDEM discovers that the above-mentioned reports, any representations made to IDEM, or any other information submitted to or reviewed by IDEM was inaccurate, then IDEM reserves the right to revoke this letter and pursue any responsible parties. Furthermore, if any activities undertaken by the Prospective Purchaser result in a new release or if Site conditions are later determined by IDEM to constitute an imminent and substantial threat to human health or the environment, IDEM reserves the right to revoke this decision and pursue any responsible parties. Additionally, this decision does not apply to past or present contamination that is not described in this Comfort Letter, future releases, or applicable requirements under the Resource Conservation and Recovery Act, 42 U.S.C. § 6901. In addition, if any acts or omission by the Prospective Purchaser exacerbates the contamination at the Site, or if the Prospective Purchaser does not implement and maintain the reasonable steps outlined in this letter, then the protection provided by the BFPP exemption may not apply. Furthermore, activities conducted at the Site subsequent to purchase that result in a new release can give rise to full liability.

In order for this letter to be given effect by IDEM, the ERC must be recorded in the Bartholomew County Recorder's Office. Please return a certified copy of the recorded document to:

Lynette Schrowe, Project Manager  
Indiana Brownfields Program  
100 North Senate Avenue, Room 1275  
Indianapolis, IN 46204

IDEM is pleased to assist CAEC with the commercial/industrial redevelopment of the Site. Should you have any questions or comments, please contact Lynette Schrowe at 317/234-4861 or toll free from within Indiana at 800/451-6027, ext. 4-4861. She can also be reached via email at: [lschrowe@ifa.in.gov](mailto:lschrowe@ifa.in.gov).

Sincerely,



Peggy Dorsey  
Deputy Assistant Commissioner  
Office of Land Quality

Enclosure

cc: *Jan Pels, U.S. EPA Region 5 (electronic copy)*  
*Meredith Gramelspacher, Indiana Brownfields Program (electronic copy)*  
*Lynette Schrowe, Indiana Brownfields Program (electronic copy)*  
*C. Edward Curtin, Executive Director, Columbus Redevelopment Commission, 123 Washington Street Columbus, Indiana 47201*





**PHASE II SUBSURFACE INVESTIGATION REPORT**

**Bob's Car Wash  
711 East 2<sup>nd</sup> Street  
Columbus, Indiana 47201  
IDEM Facility I.D. Number: 14812  
IDEM Incident Number: 199207532  
American Project Number: 321089**

**July 20, 2012**

**PREPARED FOR:**

**Mary Ferdon  
Community Development Director  
City of Columbus – City Hall  
123 Washington Street  
Columbus, Indiana 47201**

**PREPARED BY:**

**American Environmental Corporation  
8500 Georgetown Road  
Indianapolis, Indiana 46268**



July 20, 2012

Mary Ferdon  
Community Development Director  
City of Columbus – City Hall  
123 Washington Street  
Columbus, Indiana 47201

RE: **Phase II Subsurface Investigation Report**  
Bob's Car Wash  
711 East 2<sup>nd</sup> Street  
Columbus, Indiana 47201  
IDEM Facility I.D. Number: 14812  
IDEM Incident Number: 199207532  
American Project Number: 321089

Dear Mrs. Ferdon,

American Environmental Corporation (American Environmental) is pleased to provide you with this Report documenting the results of the recently completed subsurface investigation. A total of five soil borings (P-1 through P-5) were advanced in order to confirm the presence or absence of petroleum hydrocarbon impacts.

Historical records indicate that the property was utilized as a gasoline station from approximately 1965 until the two 8,000-gallon gasoline underground storage tanks (USTs) were removed in July 1992. A petroleum hydrocarbon release was reported to IDEM on July 30, 1992 based on the site conditions encountered during the UST removal project. A Site Map is provided as **Figure 1**.

### **Subsurface Investigation**

On July 3, 2013, five soil borings were completed at the property using direct-push methodology. Soil boring P-1 was advanced on the south side of the property, soil borings P-2 and P-3 were advanced adjacent to the former pump islands, soil boring P-4 was completed in proximity to the former UST cavity, and soil boring P-5 was advanced on the east side of the property.

Soil samples were collected continuously via a stainless steel macrosampler lined with an acetate sleeve. The soil column was visually inspected, screened with a photoionization detector, and classified in the field by American Environmental personnel according to the USDA Soil Classification System. The soil boring logs are provided as **Appendix A**.

**Corporate Office**  
8500 Georgetown Road  
Indianapolis, IN 46268  
317-871-4090  
317-871-4094 Fax

**Regional Office**  
410 Production Court  
Louisville, KY 40299  
502-491-0144  
502-491-9271 Fax

**Regional Office**  
3700 W. Grand Ave, Suite A  
Springfield, IL 62711  
217-585-9517  
217-585-9518 Fax

**Regional Office**  
4305 Muhlhauser Rd, Suite 3  
Cincinnati, OH 45014  
513-874-7740  
513-874-7756 Fax

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### Soil Sampling

A total of five soil samples were obtained from the soil borings while wearing dedicated, disposable nitrile gloves utilizing the USEPA 5035A sample collection methodology and laboratory provided Terracore samplers for volatiles and 4-ounce glass jars for the remaining chemicals of concern. The samples were properly containerized, labeled, placed on ice, and transported to Pace Analytical Services, Inc. located in Indianapolis, Indiana. The soil samples were submitted for laboratory analysis of adsorbed benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using USEPA Method 8021, and for the polynuclear aromatic hydrocarbons (PAHs) including the carcinogenic PAHs (cPAHs), and naphthalene using USEPA Method 8270 SIM.

The laboratory analytical report indicated that adsorbed benzo(a)pyrene was detected above IDEM's 2012 Remediation Closure Guide (RCG) residential screening level (RSL) of 210 ppb in P-4 at a concentration of 1,020 ppb. Adsorbed dibenz(a,h)anthracene was detected above the RCG RSL of 210 ppb in P-4 at a concentration of 280 ppb.

Adsorbed BTEX, MTBE, PAHs, and naphthalene were not detected at concentrations exceeding the respective RCG RSLs in any of the soil samples.

The Level II standard of quality assurance/quality control (QA/QC) was followed for this soil sampling event and included a field duplicate and a trip blank. The duplicate sample was collected in the field and the trip blank was provided by the laboratory. The QA/QC samples were delivered to the laboratory with the same sampling cooler as the soil samples. The duplicate was in general agreement with the soil sample obtained from P-1 and the trip blank did not exhibit any indication of cross-contamination.

The soil analytical results are summarized in **Tables 1** through **3** and illustrated on **Figure 2**. The complete laboratory analytical report is provided as **Appendix B**.

### Groundwater Sampling

Upon completion of soil sampling activities, a temporary sampling point was emplaced within each soil boring. The temporary sampling points were screened in the first aquifer encountered and constructed of 1-inch diameter Schedule 40 flush-threaded PVC with 10-feet of factory slotted screen. Please note that upon completion of sampling activities, the temporary sampling points were removed and the borings were backfilled with bentonite.

Groundwater samples were collected from the temporary sampling points via a disposable bailer while wearing dedicated, disposable nitrile gloves. The groundwater samples were properly containerized, labeled, placed on ice and transported to Pace Analytical Services, Inc. for laboratory analysis of dissolved BTEX and MTBE using USEPA Method 8021 and for the PAH/cPAHs and naphthalene using USEPA Method 8270 SIM.



The laboratory analytical report indicated that dissolved benzene was detected above RCG groundwater RSL of 5 ppb in P-2 at a concentration of 1,600 ppb and in P-3 at a concentration of 178 ppb. The detected benzene concentrations in P-2 and P-3 also exceeded the RCG vapor intrusion commercial screening level of 120 ppb. Dissolved ethylbenzene was detected above the groundwater RSL of 700 ppb in P-2 at a concentration of 3,670 ppb. Dissolved xylenes were detected above the groundwater RSL of 10,000 ppb in P-2 at a concentration of 15,100 ppb. Dissolved MTBE was detected above the groundwater RSL of 120 ppb in P-2 at a concentration of 789 ppb and in P-3 at a concentration of 371 ppb. Dissolved naphthalene was detected above the groundwater RSL of 1.4 ppb in P-2 at a concentration of 36.4 ppb and in P-3 at a concentration of 4.3 ppb. Dissolved 1-methylnaphthalene was detected above the groundwater RSL of 9.7 ppb in P-2 at a concentration of 21.8 ppb and 2-methylnaphthalene was detected above the RSL of 27 ppb in P-2 at a concentration of 44.3 ppb.

The Level II standard of QA/QC was followed for this groundwater sampling event and included a field duplicate and a trip blank. The duplicate sample was collected in the field and the trip blank was provided by the laboratory. The QA/QC samples were delivered to the laboratory with the same sampling cooler as the groundwater samples. The duplicate was in general agreement with the groundwater sample obtained from P-1 and the trip blank did not exhibit any indication of cross-contamination.

The groundwater analytical results are summarized in **Tables 4** through **6** and illustrated on **Figure 3**. The complete laboratory analytical report is included as **Appendix B**.

## **Conclusions**

The results of the subsurface investigation have confirmed the presence of petroleum hydrocarbon impacts related to the historical use of the former UST system. The area of highest soil and groundwater impacts (P-2 and P-3) were encountered adjacent to the former pump islands and it should be noted that a petroleum hydrocarbon sheen was visible during groundwater sampling, indicating the potential presence of non-aqueous liquid phase hydrocarbons. At this time, further investigative activities are necessary to fully delineate the soil and groundwater impacts.

---

If you have any questions or require additional information please do not hesitate to contact us at (317) 871-4090.

Sincerely,

**AMERICAN ENVIRONMENTAL CORPORATION**

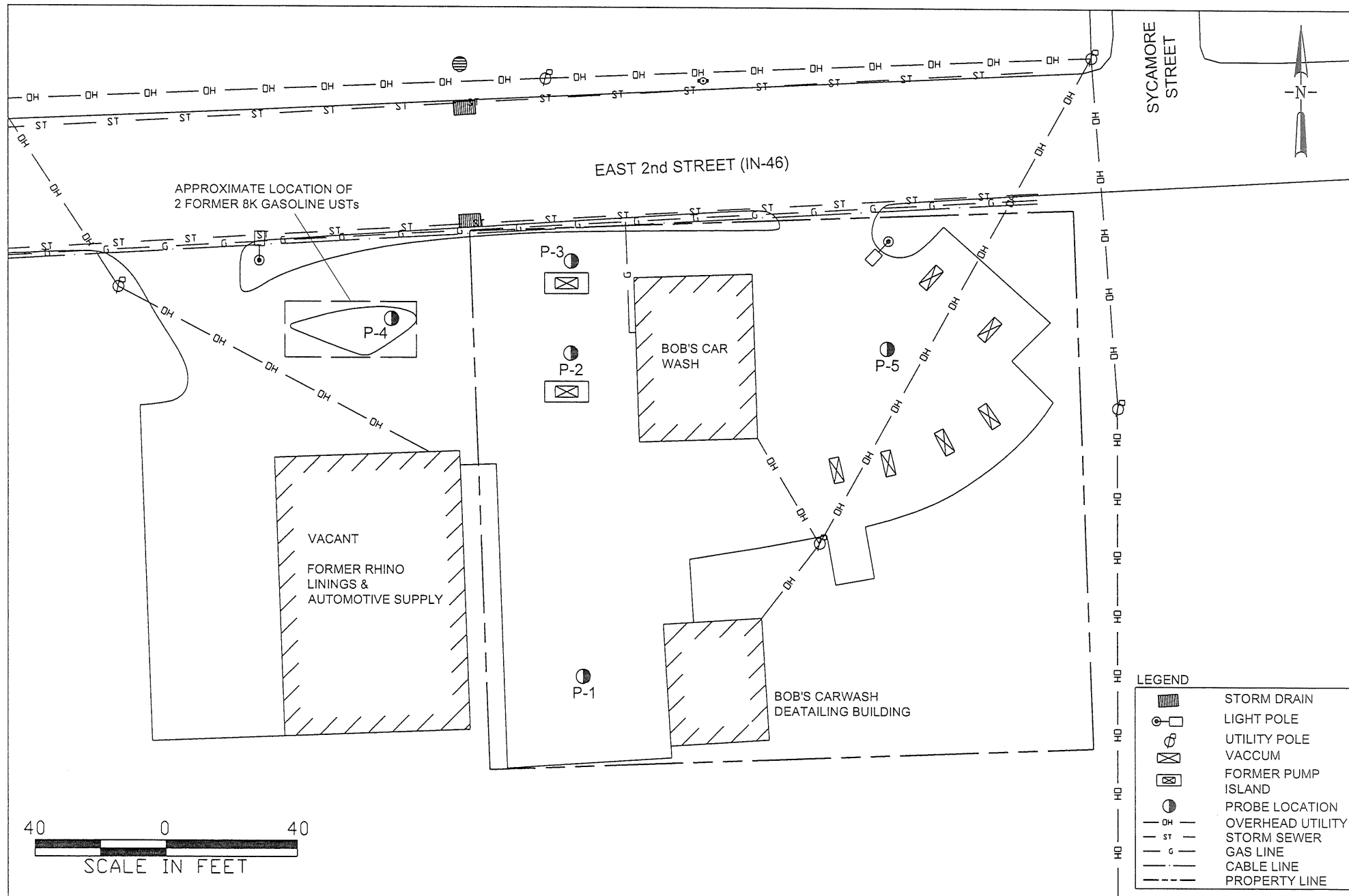


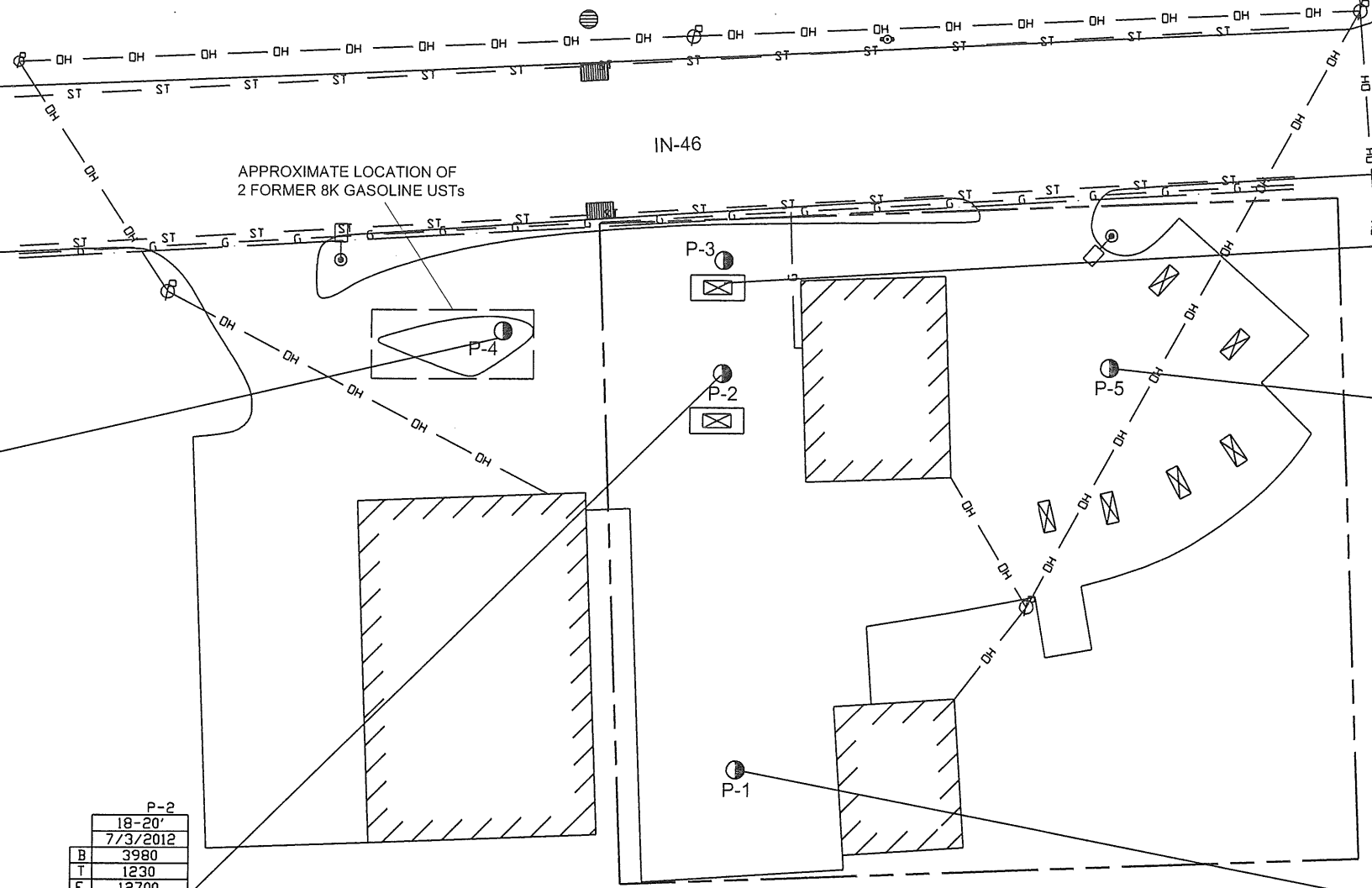
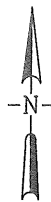
Chris White  
Senior Project Geologist



Audrey Smith Kortz, L.P.G., C.H.M.M.  
Vice President, Technical Services

## FIGURES





P-4	
10-12'	
7/3/2012	
B	496
T	< 111
E	< 111
X	< 222
M	677
Naphthalene	63.8
CPAH	
Benzo(a)anthracene	1010
Benzo(a)pyrene	1020
Benzo(b)fluoranthene	880
Benzo(k)fluoranthene	871
Chrysene	1090
Dibenz(a,h)anthracene	280
Indeno(1,2,3-cd)pyrene	592
PAH	
Acenaphthene	72
Anthracene	292
Fluoranthene	2290
Fluorene	61.3
1-Methylnaphthalene	36.6
2-Methylnaphthalene	39.6

P-2	
18-20'	
7/3/2012	
B	3980
T	1230
E	12700
X	27300
M	2680
Naphthalene	1670
CPAH	
Benzo(a)anthracene	23.1
Benzo(a)pyrene	20.9
Benzo(b)fluoranthene	21.4
Benzo(k)fluoranthene	20.6
Chrysene	27.1
Indeno(1,2,3-cd)pyrene	13
PAH	
Acenaphthene	43.6
Anthracene	37.7
Fluoranthene	96.2
Fluorene	60
1-Methylnaphthalene	625
2-Methylnaphthalene	1280

P-3	
18-20'	
7/3/2012	
B	12200
T	3440
E	5890
X	5830
M	11300
Naphthalene	25.2
CPAH	ND
1-Methylnaphthalene	47.4
2-Methylnaphthalene	62.9

P-5	
18-20'	
7/3/2012	
B	< 25.3
T	94.4
E	< 127
X	< 253
M	< 101
Naphthalene	< 6.7
CPAH	ND
PAH	ND

P-1	
4-6'	
7/3/2012	
B	252
T	314
E	151
X	572
M	111
Naphthalene	512
CPAH	
Benzo(a)anthracene	163
Benzo(a)pyrene	116
Benzo(b)fluoranthene	99
Benzo(k)fluoranthene	65.8
Chrysene	427
Dibenz(a,h)anthracene	40.2
Indeno(1,2,3-cd)pyrene	37.6
PAH	
Acenaphthene	51.4
Anthracene	70.8
Fluoranthene	125
Fluorene	119
1-Methylnaphthalene	309
2-Methylnaphthalene	489

LEGEND

STORM DRAIN

LIGHT POLE

UTILITY POLE

VACUUM

PROBE LOCATION

OVERHEAD UTILITY

STORM SEWER

GAS LINE

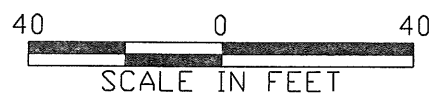
CABLE LINE

PROPERTY LINE

DATE SAMPLED

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
MTBE	METHYL TERTIARY BUTYL ETHER
CPAH	CARCINOGENIC POLYNUCLEAR AROMATIC HYDROCARBONS
PAH	POLYNUCLEAR AROMATIC HYDROCARBONS

RESULTS LISTED IN PPB



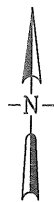
American  
Environmental

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 MAP  
BOB'S CARWASH  
COLUMBUS, INDIANA

Project No.:  
321089  
Drawing File:  
321089  
Date:  
7/17/2012

SCALE:  
AS SHOWN  
FIGURE:  
2



P-3	
7/3/2012	
B	178
T	29.4
E	128
X	< 100
M	371
Naphthalene	4.3
cPAH	ND
PAH	ND
1-Methylnaphthalene	4.1
2-Methylnaphthalene	7.9

P-4	
7/3/2012	
B	3.9
T	< 5
E	< 5
X	< 10
M	5.5
Naphthalene	< 1
cPAH	ND
PAH	ND

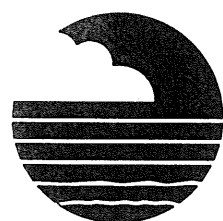
P-2	
7/3/2012	
B	1600
T	641
E	3670
X	15100
M	789
Naphthalene	36.4
cPAH	ND
PAH	ND
1-Methylnaphthalene	21.8
2-Methylnaphthalene	44.3

P-1	
7/3/2012	
B	3.4
T	< 5
E	< 5
X	< 10
M	4.2
Naphthalene	< 1
cPAH	ND
PAH	ND

P-5	
7/3/2012	
B	< 1
T	< 5
E	< 5
X	< 10
M	< 4
Naphthalene	< 1
cPAH	ND
PAH	ND

LEGEND	
	STORM DRAIN
	LIGHT POLE
	UTILITY POLE
	VACUUM
	PROBE LOCATION
	OVERHEAD UTILITY
	STORM SEWER
	GAS LINE
	CABLE LINE
	PROPERTY LINE
RESULTS LISTED IN PPB	
DATE SAMPLED	
B	BENZENE
T	TOLUENE
E	ETHYL BENZENE
X	XYLENES
MTBE	METHYL TERTIARY BUTYL ETHER
cPAH	CARCINOGENIC POLYNUCLEAR AROMATIC HYDROCARBONS
PAH	POLYNUCLEAR AROMATIC HYDROCARBONS

40 0 40  
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 ANALYTICAL RESULTS MAP**  
**BOB'S CARWASH**  
**COLUMBUS, INDIANA**

Project No.:  
**321089**

Drawing File:  
**321089**

Date:  
**7/17/2012**

SCALE:  
**AS SHOWN**

FIGURE:

**3**

## TABLES

## Phase II Subsurface Investigation Report

### Table 1. Soil BTEX, MTBE, & Naphthalene Analytical Results

Bob's Car Wash

711 East 2nd Street

Columbus, Indiana 47201

IDEM FID #14812

IDEM Incident #199207532

Sample I.D.	Date	Sampling Interval ft. BLS	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)
<b>P-1</b>	7/3/2012	4 - 6	252	314	151	572	111	512
<b>P-2</b>	7/3/2012	18 - 20	3,980	1,230	12,700	27,300	2,680	1,670
<b>P-3</b>	7/3/2012	18 - 20	12,200	3,440	5,890	5,830	11,300	25.2
<b>P-4</b>	7/3/2012	10 - 12	496	<111	<111	<222	677	63.8
<b>P-5</b>	7/3/2012	18 - 20	<25.3	94.4	<127	<253	<101	<6.7
<b>Duplicate (P-1)</b>	7/3/2012	4 - 6	208	241	<138	335	<111	731
2012 RCG Residential Screening Level			15,000	820,000	76,000	260,000	600,000	50,000
2012 RCG Commercial Screening Level			54,000	820,000	270,000	260,000	2,200,000	180,000

BLS: Below Land Surface

ppb: parts per billion ( $\mu\text{g/kg}$ )

RCG: Remediation Closure Guide



## Phase II Subsurface Investigation Report

### Table 2. Soil cPAH Analytical Results

Bob's Car Wash

711 East 2nd Street

Columbus, Indiana 47201

IDEM FID #14812

IDEM Incident #199207532

Sample I.D.	Date	Sampling Interval ft. BLS	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenz(a,h) anthracene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)
<b>P-1</b>	7/3/2012	4 - 6	163	116	99	65.8	427	40.2	37.6
<b>P-2</b>	7/3/2012	18 - 20	23.1	20.9	21.4	20.6	27.1	<6.4	13
<b>P-3</b>	7/3/2012	18 - 20	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
<b>P-4</b>	7/3/2012	10 - 12	1,010	<b>1,020</b>	880	871	1,090	<b>280</b>	592
<b>P-5</b>	7/3/2012	18 - 20	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
<b>Duplicate (P-1)</b>	7/3/2012	4 - 6	218	145	139	56.7	620	61.2	43.8
2012 RCG Residential Screening Level			2,100	210	2,100	21,000	210,000	210	2,100
2012 RCG Commercial Screening Level			21,000	2,100	21,000	210,000	2,100,000	2,100	21,000

BLS: Below Land Surface

ppb: parts per billion ( $\mu\text{g}/\text{kg}$ )

RCG: Remediation Closure Guide

## Phase II Subsurface Investigation Report

### Table 3. Soil PAH Analytical Results

Bob's Car Wash

711 East 2nd Street

Columbus, Indiana 47201

IDEM FID #14812

IDEM Incident #199207532

Sample I.D.	Date	Sampling Interval ft. BLS	Acenaphthene (ppb)	Anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	1-Methyl naphthalene (ppb)	2-Methyl naphthalene (ppb)
<b>P-1</b>	7/3/2012	4 - 6	51.4	70.8	125	119	309	489
<b>P-2</b>	7/3/2012	18 - 20	43.6	37.7	96.2	60	625	1,280
<b>P-3</b>	7/3/2012	18 - 20	<6.2	<6.2	<6.2	<6.2	47.4	62.9
<b>P-4</b>	7/3/2012	10 - 12	72	292	2,290	61.3	36.6	39.6
<b>P-5</b>	7/3/2012	18 - 20	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
<b>Duplicate (P-1)</b>	7/3/2012	4 - 6	81	114	174	172	450	700
2012 RCG Residential Screening Level			4,800	24,000,000	3,200,000	3,200,000	310,000	370,000
2012 RCG Commercial Screening Level			33,000,000	100,000,000	22,000,000	22,000,000	390,000	370,000

BLS: Below Land Surface

ppb: parts per billion ( $\mu\text{g/kg}$ )

RCG: Remediation Closure Guide

## Phase II Subsurface Investigation Report

**Table 4. Groundwater BTEX, MTBE, & Naphthalene Analytical Results**

Bob's Car Wash

711 East 2nd Street

Columbus, Indiana 47201

IDEM FID #14812

IDEM Incident #199207532

Sample I.D.	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Naphthalene (ppb)
<b>P-1</b>	7/3/2012	3.4	<5	<5	<10	4.2	<1
<b>P-2</b>	7/3/2012	<b>1,600</b>	641	<b>3,670</b>	<b>15,100</b>	<b>789</b>	<b>36.4</b>
<b>P-3</b>	7/3/2012	<b>178</b>	29.4	128	<100	<b>371</b>	<b>4.3</b>
<b>P-4</b>	7/3/2012	3.9	<5	<5	<10	5.5	<1
<b>P-5</b>	7/3/2012	<1	<5	<5	<10	<4	<1
<b>Duplicate (P-1)</b>	7/3/2012	3.5	<5	<5	<10	<4	<1
GW Residential Screening Level		5	1,000	700	10,000	120	1.4
VI Residential Screening Level		24	NE	NE	NE	NE	91
VI Commercial Screening Level		120	NE	NE	NE	NE	460

ppb: parts per billion (µg/L)

GW: Groundwater

VI: Vapor Intrusion

NE: Not Established

## Phase II Subsurface Investigation Report

### Table 5. Groundwater cPAH Analytical Results

Bob's Car Wash

711 East 2nd Street

Columbus, Indiana 47201

IDEM FID #14812

IDEM Incident #199207532

Sample I.D.	Date	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenz(a,h) anthracene (ppb)	Indeno(1,2,3- cd) pyrene (ppb)
<b>P-1</b>	7/3/2012	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
<b>P-2</b>	7/3/2012	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
<b>P-3</b>	7/3/2012	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
<b>P-4</b>	7/3/2012	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
<b>P-5</b>	7/3/2012	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
<b>Duplicate (P-1)</b>	7/3/2012	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
GW Residential Screening Level		0.29	0.20	0.29	2.9	29	0.029	0.29

ppb: parts per billion (µg/L)

GW: Groundwater

## Phase II Subsurface Investigation Report

**Table 6. Groundwater PAH Analytical Results**

Bob's Car Wash

711 East 2nd Street

Columbus, Indiana 47201

IDEM FID #14812

IDEM Incident #199207532

Sample I.D.	Date	Acenaphthene (ppb)	Anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	1-Methyl naphthalene (ppb)	2-Methyl naphthalene (ppb)
<b>P-1</b>	7/3/2012	<1	<0.1	<1	<1	<1	<1
<b>P-2</b>	7/3/2012	<1	<0.1	<1	<1	<b>21.8</b>	<b>44.3</b>
<b>P-3</b>	7/3/2012	<1	<0.1	<1	<1	4.1	7.9
<b>P-4</b>	7/3/2012	<1	<0.1	<1	<1	<1	<1
<b>P-5</b>	7/3/2012	<1	<0.1	<1	<1	<1	<1
<b>Duplicate (P-1)</b>	7/3/2012	<1	<0.1	<1	<1	<1	<1
GW Residential Screening Level		400	1,300	630	220	9.7	27

ppb: parts per billion (µg/L)

GW: Groundwater

## **APPENDIX A**

### **Soil Boring Logs**



# AMERICAN ENVIRONMENTAL CORPORATION

## GEOPROBE LOG (5' PROBE)

CLIENT: BOB'S CARWASH  
 PROJECT NAME: SUB-SURFACE INVESTIGATION  
 PROJECT LOCATION: COLUMBUS, INDIANA  
 BORING LOCATION: SEE SITE MAP  
 PROBE OPERATOR: J. CLEVINGER  
 FIELD SCIENTIST: S. FARRELL

BORING NUMBER: P-1  
 JOB NUMBER: 321089  
 START DATE/TIME: 7/3/2012  
 PROBE METHOD: DIRECT PUSH  
 PROBE DIAMETER: 2"  
 SAMPLING METHOD: MBS

SOIL / ROCK DESCRIPTION	Stratum Depth	Depth Ft.	Sam. #	LAB SAMPLE DEPTH	REC. %	TPV ppm	Remarks
Asphalt/gravel/brick fill material		1				0.2	
10YR 2/1, foundry sand		2	1		50		
		3				0.8	
3" section of 10YR 4/4 moist sand @ 3.5'		4					
		5		4-6'		10.7	
		6	2		5		
		7				0.7	
		8					
		9				0.4	
		10	3		50		
		11				0.0	
		12					
		13				0.7	
10YR 3/1, moist sandy clay		14	4		80		
1" sand seam @ 14.5'		15				0.4	
10YR 4/1, moist clay		16					
		17				0.0	
Saturated @ 19'		18	5		95		
10YR 4/1, wet sand & gravel		19				0.3	
Color change to 10YR 4/4 @ 19.5'		20					
BOB @ 20'		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					

### WATER LEVEL OBSERVATIONS

NOTED ON RODS -- ft  
 AT COMPLETION -- ft  
 AFTER -- HRS. -- ft

### SAMPLING METHODS

LBS - LARGE BORE SAMPLER  
 MBS - MACRO BORE SAMPLER

### NOTES

IDNR# - WATER WELL LICENSE NUMBER  
 TPV - TOTAL PHOTOIONIZABLE VAPORS  
 PPM - PARTS PER MILLION  
 ND - NONE DETECTED  
 \* SAMPLE SENT TO LABORATORY









# AMERICAN ENVIRONMENTAL CORPORATION

## GEOPROBE LOG (5' PROBE)

CLIENT: BOB'S CARWASH  
PROJECT NAME: SUB-SURFACE INVESTIGATION  
PROJECT LOCATION: COLUMBUS, INDIANA  
BORING LOCATION: SEE SITE MAP  
PROBE OPERATOR: J. CLEVINGER  
FIELD SCIENTIST: S. FARRELL

BORING NUMBER: P-2  
JOB NUMBER: 321089  
START DATE/TIME: 7/3/2012  
PROBE METHOD: DIRECT PUSH  
PROBE DIAMETER: 2"  
SAMPLING METHOD: MBS

SOIL / ROCK DESCRIPTION	Stratum Depth	Depth Ft.	Sam. #	LAB SAMPLE DEPTH	REC. %	TPV ppm	Remarks
Asphalt/gravel/fill material		1	1		50	0.0	
10YR 3/1, moist sandy clay		2				0.8	
10YR 2/1, moist foundry sand		3				113	
		4				83.2	
		5	2		80	77.6	
		6					
10YR 3/1, moist sandy clay Color change to 10YR 4/1 @ 11'		7				98.1	
		8				52.7	
		9				23.5	
		10	3		70	55.4	
10YR 4/1, moist clay 2" saturated sandy clay seam @ 15'  Color change to 10YR 4/2 @ 19'		11				1550	
		12					
		13					
		14	4		70		
BOB @ 20'		15					
		16					
		17					
		18					
		19	18-20'				
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					

### WATER LEVEL OBSERVATIONS

NOTED ON RODS -- ft  
AT COMPLETION -- ft  
AFTER -- HRS. -- ft

### SAMPLING METHODS

LBS - LARGE BORE SAMPLER  
MBS - MACRO BORE SAMPLER

### NOTES

IDNR# - WATER WELL LICENSE NUMBER  
TPV - TOTAL PHOTOIONIZABLE VAPORS  
PPM - PARTS PER MILLION  
ND - NONE DETECTED  
\* SAMPLE SENT TO LABORATORY





# AMERICAN ENVIRONMENTAL CORPORATION

## GEOPROBE LOG (5' PROBE)

CLIENT: BOB'S CARWASH  
PROJECT NAME: SUB-SURFACE INVESTIGATION  
PROJECT LOCATION: COLUMBUS, INDIANA  
BORING LOCATION: SEE SITE MAP  
PROBE OPERATOR: J. CLEVINGER  
FIELD SCIENTIST: S. FARRELL

BORING NUMBER: P-3  
JOB NUMBER: 321089  
START DATE/TIME: 7/3/2012  
PROBE METHOD: DIRECT PUSH  
PROBE DIAMETER: 2"  
SAMPLING METHOD: MBS

SOIL / ROCK DESCRIPTION	Stratum Depth	Depth Ft.	Sam. #	LAB SAMPLE DEPTH	REC. %	TPV ppm	Remarks
Asphalt/gravel/fill material		1				0.8	
10YR 3/1, moist sandy clay		2	1		20	25.1	
		3					
		4					
		5				109	
		6					
		7	2		20	47.5	
		8					
		9				34.5	
		10					
10YR 4/1, moist clay		11				29.3	
		12	3		70		
10YR 4/1, wet sandy clay		13				24.6	
5" wet sandy clay seam @ 14'		14					
		15				21.8	
Color change to 10YR 4/2 @ 16'		16					
		17	4		80	477	
Saturated @ 18.5'		18					
		19		18-20'		698	
10YR 4/2, wet sand		20					
BOB @ 20'		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					

### WATER LEVEL OBSERVATIONS

NOTED ON RODS -- ft  
AT COMPLETION -- ft  
AFTER -- HRS. -- ft

### SAMPLING METHODS

LBS - LARGE BORE SAMPLER  
MBS - MACRO BORE SAMPLER

### NOTES

IDNR# - WATER WELL LICENSE NUMBER  
TPV - TOTAL PHOTOIONIZABLE VAPORS  
PPM - PARTS PER MILLION  
ND - NONE DETECTED  
\* SAMPLE SENT TO LABORATORY



# AMERICAN ENVIRONMENTAL CORPORATION

## GEOPROBE LOG (5' PROBE)

CLIENT: BOB'S CARWASH  
PROJECT NAME: SUB-SURFACE INVESTIGATION  
PROJECT LOCATION: COLUMBUS, INDIANA  
BORING LOCATION: SEE SITE MAP  
PROBE OPERATOR: J. CLEVINGER  
FIELD SCIENTIST: S. FARRELL

BORING NUMBER: P-4  
JOB NUMBER: 321089  
START DATE/TIME: 7/3/2012  
PROBE METHOD: DIRECT PUSH  
PROBE DIAMETER: 2"  
SAMPLING METHOD: MBS

SOIL / ROCK DESCRIPTION	Stratum Depth	Depth Ft.	Sam. #	LAB SAMPLE DEPTH	REC. %	TPV ppm	Remarks
10YR 5/4, dry topsoil		1	1		30	3.7	
		2				0.9	
		3				1.4	
10YR 4/6, dry fill sand		4	2		50	0.5	
		5				0.0	
		6				18.2	
		7				8.1	
Color change to 10YR 3/1 @ 6'		8	3		60	0.4	
		9				0.4	
		10				0.6	
		11					
10YR 3/1, moist sandy clay		12	4		70		
		13					
		14					
		15					
10YR 4/3, moist clay		16	4		70		
		17					
		18					
		19					
Saturated @ 18'		20	4		70		
		21					
		22					
		23					
BOB @ 20'		24	4		70		
		25					
		26					
		27					
		28	4		70		
		29					
		30					
		31					

### WATER LEVEL OBSERVATIONS

NOTED ON RODS -- ft  
AT COMPLETION -- ft  
AFTER -- HRS. -- ft

### SAMPLING METHODS

LBS - LARGE BORE SAMPLER  
MBS - MACRO BORE SAMPLER

### NOTES

IDNR# - WATER WELL LICENSE NUMBER  
TPV - TOTAL PHOTOIONIZABLE VAPORS  
PPM - PARTS PER MILLION  
ND - NONE DETECTED  
\* SAMPLE SENT TO LABORATORY



# AMERICAN ENVIRONMENTAL CORPORATION

## GEOPROBE LOG (5' PROBE)

CLIENT: BOB'S CARWASH  
 PROJECT NAME: SUB-SURFACE INVESTIGATION  
 PROJECT LOCATION: COLUMBUS, INDIANA  
 BORING LOCATION: SEE SITE MAP  
 PROBE OPERATOR: J. CLEVINGER  
 FIELD SCIENTIST: S. FARRELL

BORING NUMBER: P-5  
 JOB NUMBER: 321089  
 START DATE/TIME: 7/3/2012  
 PROBE METHOD: DIRECT PUSH  
 PROBE DIAMETER: 2"  
 SAMPLING METHOD: MBS

SOIL / ROCK DESCRIPTION	Stratum Depth	Depth Ft.	Sam. #	LAB SAMPLE DEPTH	REC. %	TPV ppm	Remarks
Asphalt/gravel/fill material		1	1		60	1.8	
10YR 3/2, moist sandy clay		2					
10YR 3/1, dry fill sand		3				0.3	
		4					
		5	2		60	0.9	
		6					
		7				0.2	
		8					
		9	3		30	0.6	
		10					
		11				0.2	
		12					
10YR 4/1, moist sandy clay		13	4		90	0.9	
10YR 4/1, moist clay		14					
		15				1.4	
		16					
Saturated & color change to 10YR 5/3 @ 19'		17	5		90	0.3	
		18					
		19		18-20'		0.8	
		20					
10YR 4/4, wet sand		21				0.0	
		22					
		23				0.0	
		24				0.0	
BOB @ 25'		25					
		26					
		27					
		28					
		29					

### WATER LEVEL OBSERVATIONS

NOTED ON RODS -- ft  
 AT COMPLETION -- ft  
 AFTER -- HRS. -- ft

### SAMPLING METHODS

LBS - LARGE BORE SAMPLER  
 MBS - MACRO BORE SAMPLER

### NOTES

IDNR# - WATER WELL LICENSE NUMBER  
 TPV - TOTAL PHOTOIONIZABLE VAPORS  
 PPM - PARTS PER MILLION  
 ND - NONE DETECTED  
 \* SAMPLE SENT TO LABORATORY

## **APPENDIX B**

### **Laboratory Analytical Report**

July 17, 2012

Mr. Chris White  
American Environmental  
8500 Georgetown Rd  
Indianapolis, IN 46268

RE: Project: Bob's Car Wash 321093  
Pace Project No.: 5065563

Dear Mr. White:

Enclosed are the analytical results for sample(s) received by the laboratory on July 03, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mark Davis

mark.davis@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

---

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268  
Illinois Certification #: 200074  
Indiana Certification #: C-49-06  
Kansas Certification #: E-10247  
Kentucky Certification #: 0042

Louisiana/NELAC Certification #: 04076  
Ohio VAP: CL0065  
Pennsylvania: 68-04991  
West Virginia Certification #: 330

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5065563001	P-1 4-6	Solid	07/03/12 10:00	07/03/12 16:51
5065563002	P-2 18-20	Solid	07/03/12 11:00	07/03/12 16:51
5065563003	P-3 18-20	Solid	07/03/12 12:20	07/03/12 16:51
5065563004	P-4 10-12	Solid	07/03/12 13:30	07/03/12 16:51
5065563005	P-5 18-20	Solid	07/03/12 14:40	07/03/12 16:51
5065563006	DUP	Solid	07/03/12 08:00	07/03/12 16:51
5065563007	P-1	Water	07/03/12 10:10	07/03/12 16:51
5065563008	P-2	Water	07/03/12 11:10	07/03/12 16:51
5065563009	P-3	Water	07/03/12 12:30	07/03/12 16:51
5065563010	P-4	Water	07/03/12 13:50	07/03/12 16:51
5065563011	P-5	Water	07/03/12 14:50	07/03/12 16:51
5065563012	DUP-1	Water	07/03/12 08:00	07/03/12 16:51
5065563013	TRIP	Water	07/03/12 08:00	07/03/12 16:51

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5065563001	P-1 4-6	EPA 8021	PTH	6
		EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5065563002	P-2 18-20	EPA 8021	PTH	6
		EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5065563003	P-3 18-20	EPA 8021	PTH	6
		EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5065563004	P-4 10-12	EPA 8021	PTH	6
		EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5065563005	P-5 18-20	EPA 8021	PTH	6
		EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5065563006	DUP	EPA 8021	PTH	6
		EPA 8270 by SIM	CEM	20
		ASTM D2974-87	MLS	1
5065563007	P-1	EPA 8021	PTH	6
		EPA 8270 by SIM LVE	CEM	20
5065563008	P-2	EPA 8021	PTH	6
		EPA 8270 by SIM LVE	CEM	20
5065563009	P-3	EPA 8021	PTH	6
		EPA 8270 by SIM LVE	CEM	20
5065563010	P-4	EPA 8021	PTH	6
		EPA 8270 by SIM LVE	CEM	20
5065563011	P-5	EPA 8021	PTH	6
		EPA 8270 by SIM LVE	CEM	20
5065563012	DUP-1	EPA 8021	PTH	6
		EPA 8270 by SIM LVE	CEM	20
5065563013	TRIP	EPA 8021	PTH	6

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: P-1 4-6 Lab ID: 5065563001 Collected: 07/03/12 10:00 Received: 07/03/12 16:51 Matrix: Solid

### Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV Low BTEX 5035 prep</b> Analytical Method: EPA 8021								
Benzene	252	ug/kg	26.0	25		07/12/12 04:59	71-43-2	
Ethylbenzene	151	ug/kg	130	25		07/12/12 04:59	100-41-4	
Methyl-tert-butyl ether	111	ug/kg	104	25		07/12/12 04:59	1634-04-4	
Toluene	314	ug/kg	130	25		07/12/12 04:59	108-88-3	
Xylene (Total)	572	ug/kg	260	25		07/12/12 04:59	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	93	%	42-176	25		07/12/12 04:59	98-08-8	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	51.4	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	83-32-9	
Acenaphthylene	ND	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	208-96-8	
Anthracene	70.8	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	120-12-7	
Benzo(a)anthracene	163	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	56-55-3	
Benzo(a)pyrene	116	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	50-32-8	
Benzo(b)fluoranthene	99.0	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	205-99-2	
Benzo(g,h,i)perylene	74.2	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	191-24-2	
Benzo(k)fluoranthene	65.8	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	207-08-9	
Chrysene	427	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	218-01-9	
Dibenz(a,h)anthracene	40.2	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	53-70-3	
Fluoranthene	125	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	206-44-0	
Fluorene	119	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	86-73-7	
Indeno(1,2,3-cd)pyrene	37.6	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	193-39-5	
1-Methylnaphthalene	309	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	90-12-0	N2
2-Methylnaphthalene	489	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	91-57-6	
Naphthalene	512	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	91-20-3	
Phenanthrene	452	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	85-01-8	
Pyrene	159	ug/kg	5.5	1	07/05/12 19:05	07/07/12 01:07	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	49	%	46-109	1	07/05/12 19:05	07/07/12 01:07	321-60-8	
p-Terphenyl-d14 (S)	54	%	43-107	1	07/05/12 19:05	07/07/12 01:07	1718-51-0	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	9.5	%	0.10	1		07/06/12 09:32		

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

**Sample: P-2 18-20**      **Lab ID: 5065563002**      Collected: 07/03/12 11:00      Received: 07/03/12 16:51      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV Low BTEX 5035 prep</b> Analytical Method: EPA 8021								
Benzene	3980	ug/kg	91.0	100		07/12/12 05:23	71-43-2	
Ethylbenzene	12700	ug/kg	455	100		07/12/12 05:23	100-41-4	
Methyl-tert-butyl ether	2680	ug/kg	364	100		07/12/12 05:23	1634-04-4	
Toluene	1230	ug/kg	455	100		07/12/12 05:23	108-88-3	
Xylene (Total)	27300	ug/kg	910	100		07/12/12 05:23	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	344	%.	42-176	100		07/12/12 05:23	98-08-8	S0
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546								
Acenaphthene	43.6	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	83-32-9	
Acenaphthylene	ND	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	208-96-8	
Anthracene	37.7	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	120-12-7	
Benzo(a)anthracene	23.1	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	56-55-3	
Benzo(a)pyrene	20.9	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	50-32-8	
Benzo(b)fluoranthene	21.4	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	205-99-2	
Benzo(g,h,i)perylene	15.1	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	191-24-2	
Benzo(k)fluoranthene	20.6	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	207-08-9	
Chrysene	27.1	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	53-70-3	
Fluoranthene	96.2	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	206-44-0	
Fluorene	60.0	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	86-73-7	
Indeno(1,2,3-cd)pyrene	13.0	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	193-39-5	
1-Methylnaphthalene	625	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	90-12-0	N2
2-Methylnaphthalene	1280	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	91-57-6	
Naphthalene	1670	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	91-20-3	
Phenanthrene	191	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	85-01-8	
Pyrene	70.9	ug/kg	6.4	1	07/05/12 19:05	07/07/12 01:25	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	61	%.	46-109	1	07/05/12 19:05	07/07/12 01:25	321-60-8	
p-Terphenyl-d14 (S)	64	%.	43-107	1	07/05/12 19:05	07/07/12 01:25	1718-51-0	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	21.9	%	0.10	1		07/06/12 09:32		

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

**Sample: P-3 18-20**      **Lab ID: 5065563003**      Collected: 07/03/12 12:20      Received: 07/03/12 16:51      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV Low BTEX 5035 prep</b> Analytical Method: EPA 8021								
Benzene	12200	ug/kg	93.5	100		07/12/12 05:47	71-43-2	
Ethylbenzene	5890	ug/kg	467	100		07/12/12 05:47	100-41-4	
Methyl-tert-butyl ether	11300	ug/kg	374	100		07/12/12 05:47	1634-04-4	
Toluene	3440	ug/kg	467	100		07/12/12 05:47	108-88-3	
Xylene (Total)	5830	ug/kg	935	100		07/12/12 05:47	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	1200	%.	42-176	100		07/12/12 05:47	98-08-8	S0
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	83-32-9	
Acenaphthylene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	208-96-8	
Anthracene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	207-08-9	
Chrysene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	53-70-3	
Fluoranthene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	206-44-0	
Fluorene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	193-39-5	
1-Methylnaphthalene	47.4	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	90-12-0	N2
2-Methylnaphthalene	62.9	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	91-57-6	
Naphthalene	25.2	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	91-20-3	
Phenanthrene	7.8	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	85-01-8	
Pyrene	ND	ug/kg	6.2	1	07/05/12 19:05	07/07/12 03:31	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	66	%.	46-109	1	07/05/12 19:05	07/07/12 03:31	321-60-8	
p-Terphenyl-d14 (S)	68	%.	43-107	1	07/05/12 19:05	07/07/12 03:31	1718-51-0	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	19.9	%	0.10	1		07/06/12 09:32		

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: P-4 10-12 Lab ID: 5065563004 Collected: 07/03/12 13:30 Received: 07/03/12 16:51 Matrix: Solid

### Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV Low BTEX 5035 prep</b> Analytical Method: EPA 8021								
Benzene	496	ug/kg	22.2	25		07/12/12 06:11	71-43-2	
Ethylbenzene	ND	ug/kg	111	25		07/12/12 06:11	100-41-4	
Methyl-tert-butyl ether	677	ug/kg	88.7	25		07/12/12 06:11	1634-04-4	
Toluene	ND	ug/kg	111	25		07/12/12 06:11	108-88-3	D4
Xylene (Total)	ND	ug/kg	222	25		07/12/12 06:11	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	227	%	42-176	25		07/12/12 06:11	98-08-8	S0
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	72.0	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	83-32-9	
Acenaphthylene	88.0	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	208-96-8	
Anthracene	292	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	120-12-7	
Benzo(a)anthracene	1010	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	56-55-3	
Benzo(a)pyrene	1020	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	50-32-8	
Benzo(b)fluoranthene	880	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	205-99-2	
Benzo(g,h,i)perylene	678	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	191-24-2	
Benzo(k)fluoranthene	871	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	207-08-9	
Chrysene	1090	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	218-01-9	
Dibenz(a,h)anthracene	280	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	53-70-3	
Fluoranthene	2290	ug/kg	57.8	10	07/05/12 19:05	07/10/12 10:40	206-44-0	
Fluorene	61.3	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	86-73-7	
Indeno(1,2,3-cd)pyrene	592	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	193-39-5	
1-Methylnaphthalene	36.6	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	90-12-0	N2
2-Methylnaphthalene	39.6	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	91-57-6	
Naphthalene	63.8	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	91-20-3	
Phenanthrene	977	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	85-01-8	
Pyrene	1820	ug/kg	5.8	1	07/05/12 19:05	07/07/12 01:43	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	57	%	46-109	1	07/05/12 19:05	07/07/12 01:43	321-60-8	
p-Terphenyl-d14 (S)	56	%	43-107	1	07/05/12 19:05	07/07/12 01:43	1718-51-0	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	13.6	%	0.10	1		07/06/12 09:32		

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

**Sample: P-5 18-20**      **Lab ID: 5065563005**      Collected: 07/03/12 14:40      Received: 07/03/12 16:51      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV Low BTEX 5035 prep</b> Analytical Method: EPA 8021								
Benzene	ND	ug/kg	25.3	25		07/12/12 06:35	71-43-2	
Ethylbenzene	ND	ug/kg	127	25		07/12/12 06:35	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	101	25		07/12/12 06:35	1634-04-4	1d
Toluene	<b>94.4J</b>	ug/kg	127	25		07/12/12 06:35	108-88-3	J
Xylene (Total)	ND	ug/kg	253	25		07/12/12 06:35	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	90 %.		42-176	25		07/12/12 06:35	98-08-8	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	83-32-9	
Acenaphthylene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	208-96-8	
Anthracene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	207-08-9	
Chrysene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	53-70-3	
Fluoranthene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	206-44-0	
Fluorene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	91-57-6	
Naphthalene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	91-20-3	
Phenanthrene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	85-01-8	
Pyrene	ND	ug/kg	6.7	1	07/05/12 19:05	07/07/12 03:49	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	55 %.		46-109	1	07/05/12 19:05	07/07/12 03:49	321-60-8	
p-Terphenyl-d14 (S)	54 %.		43-107	1	07/05/12 19:05	07/07/12 03:49	1718-51-0	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>25.3</b> %		0.10	1		07/06/12 09:32		

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: DUP		Lab ID: 5065563006		Collected: 07/03/12 08:00		Received: 07/03/12 16:51		Matrix: Solid	
Results reported on a "dry-weight" basis									
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV Low BTEX 5035 prep		Analytical Method: EPA 8021							
Benzene	208	ug/kg	27.7	25		07/12/12 06:59	71-43-2		
Ethylbenzene	ND	ug/kg	138	25		07/12/12 06:59	100-41-4		
Methyl-tert-butyl ether	ND	ug/kg	111	25		07/12/12 06:59	1634-04-4		1d
Toluene	241	ug/kg	138	25		07/12/12 06:59	108-88-3		
Xylene (Total)	335	ug/kg	277	25		07/12/12 06:59	1330-20-7		
Surrogates									
a,a,a-Trifluorotoluene (S)	92	%.	42-176	25		07/12/12 06:59	98-08-8		
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	81.4	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	83-32-9		
Acenaphthylene	ND	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	208-96-8		
Anthracene	114	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	120-12-7		
Benzo(a)anthracene	218	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	56-55-3		
Benzo(a)pyrene	145	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	50-32-8		
Benzo(b)fluoranthene	139	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	205-99-2		
Benzo(g,h,i)perylene	92.7	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	191-24-2		
Benzo(k)fluoranthene	56.7	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	207-08-9		
Chrysene	620	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	218-01-9		
Dibenz(a,h)anthracene	61.2	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	53-70-3		
Fluoranthene	174	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	206-44-0		
Fluorene	172	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	86-73-7		
Indeno(1,2,3-cd)pyrene	43.8	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	193-39-5		
1-Methylnaphthalene	450	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	90-12-0		N2
2-Methylnaphthalene	700	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	91-57-6		
Naphthalene	731	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	91-20-3		
Phenanthrene	712	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	85-01-8		
Pyrene	204	ug/kg	5.5	1	07/05/12 19:05	07/07/12 02:01	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	63	%.	46-109	1	07/05/12 19:05	07/07/12 02:01	321-60-8		
p-Terphenyl-d14 (S)	71	%.	43-107	1	07/05/12 19:05	07/07/12 02:01	1718-51-0		
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.7	%	0.10	1		07/06/12 09:32			

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: P-1		Lab ID: 5065563007	Collected: 07/03/12 10:10		Received: 07/03/12 16:51		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8021 GCV BTEX-Mtbe		Analytical Method: EPA 8021						
Benzene	3.4 ug/L		1.0	1		07/13/12 11:32	71-43-2	
Ethylbenzene	ND ug/L		5.0	1		07/13/12 11:32	100-41-4	
Methyl-tert-butyl ether	4.2 ug/L		4.0	1		07/13/12 11:32	1634-04-4	
Toluene	ND ug/L		5.0	1		07/13/12 11:32	108-88-3	
Xylene (Total)	ND ug/L		10.0	1		07/13/12 11:32	1330-20-7	
Surrogates								
a,a,a-Trifluorotoluene (S)	95 %.		69-123	1		07/13/12 11:32	98-08-8	H1,pH
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	208-96-8	
Anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	207-08-9	
Chrysene	ND ug/L		0.50	1	07/09/12 10:22	07/10/12 08:50	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	53-70-3	
Fluoranthene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	206-44-0	
Fluorene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 08:50	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	90-12-0	
2-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	91-57-6	
Naphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	91-20-3	
Phenanthrene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	85-01-8	
Pyrene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 08:50	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54 %.		26-106	1	07/09/12 10:22	07/10/12 08:50	321-60-8	
p-Terphenyl-d14 (S)	65 %.		16-111	1	07/09/12 10:22	07/10/12 08:50	1718-51-0	



## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: P-2		Lab ID: 5065563008	Collected: 07/03/12 11:10	Received: 07/03/12 16:51	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV BTEX-Mtbe</b>		Analytical Method: EPA 8021						
Benzene	1600	ug/L	100	100		07/13/12 11:57	71-43-2	
Ethylbenzene	3670	ug/L	500	100		07/13/12 11:57	100-41-4	
Methyl-tert-butyl ether	789	ug/L	400	100		07/13/12 11:57	1634-04-4	
Toluene	641	ug/L	500	100		07/13/12 11:57	108-88-3	
Xylene (Total)	15100	ug/L	1000	100		07/13/12 11:57	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	128	%.	69-123	100		07/13/12 11:57	98-08-8	H1,S0, pH
<b>8270 MSSV PAHLV</b>		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/09/12 10:22	07/10/12 09:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:08	193-39-5	
1-Methylnaphthalene	21.8	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	90-12-0	
2-Methylnaphthalene	44.3	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	91-57-6	
Naphthalene	36.4	ug/L	5.0	5	07/09/12 10:22	07/11/12 09:44	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:08	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	55	%.	26-106	1	07/09/12 10:22	07/10/12 09:08	321-60-8	
p-Terphenyl-d14 (S)	40	%.	16-111	1	07/09/12 10:22	07/10/12 09:08	1718-51-0	



## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: P-3		Lab ID: 5065563009	Collected: 07/03/12 12:30	Received: 07/03/12 16:51	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV BTEX-Mtbe</b>		Analytical Method: EPA 8021						
Benzene	178	ug/L	10.0	10		07/13/12 13:33	71-43-2	
Ethylbenzene	128	ug/L	50.0	10		07/13/12 13:33	100-41-4	
Methyl-tert-butyl ether	371	ug/L	40.0	10		07/13/12 13:33	1634-04-4	
Toluene	29.4J	ug/L	50.0	10		07/13/12 13:33	108-88-3	J
Xylene (Total)	ND	ug/L	100	10		07/13/12 13:33	1330-20-7	D4
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	263	%.	69-123	10		07/13/12 13:33	98-08-8	H1,S0, pH
<b>8270 MSSV PAHLV</b>		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	208-96-8	
Anthracene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	207-08-9	
Chrysene	ND	ug/L	0.50	1	07/09/12 10:22	07/10/12 09:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	206-44-0	
Fluorene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	07/09/12 10:22	07/10/12 09:26	193-39-5	
1-Methylnaphthalene	4.1	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	90-12-0	
2-Methylnaphthalene	7.9	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	91-57-6	
Naphthalene	4.3	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	85-01-8	
Pyrene	ND	ug/L	1.0	1	07/09/12 10:22	07/10/12 09:26	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	62	%.	26-106	1	07/09/12 10:22	07/10/12 09:26	321-60-8	
p-Terphenyl-d14 (S)	50	%.	16-111	1	07/09/12 10:22	07/10/12 09:26	1718-51-0	

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: P-4		Lab ID: 5065563010		Collected: 07/03/12 13:50		Received: 07/03/12 16:51		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8021 GCV BTEX-Mtbe		Analytical Method: EPA 8021							
Benzene	3.9 ug/L		1.0	1		07/13/12 12:45	71-43-2		
Ethylbenzene	ND ug/L		5.0	1		07/13/12 12:45	100-41-4		
Methyl-tert-butyl ether	5.5 ug/L		4.0	1		07/13/12 12:45	1634-04-4		
Toluene	ND ug/L		5.0	1		07/13/12 12:45	108-88-3		
Xylene (Total)	ND ug/L		10.0	1		07/13/12 12:45	1330-20-7		
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %.		69-123	1		07/13/12 12:45	98-08-8		
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	83-32-9		
Acenaphthylene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	208-96-8		
Anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	120-12-7		
Benzo(a)anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	56-55-3		
Benzo(a)pyrene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	50-32-8		
Benzo(b)fluoranthene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	205-99-2		
Benzo(g,h,i)perylene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	191-24-2		
Benzo(k)fluoranthene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	207-08-9		
Chrysene	ND ug/L		0.50	1	07/09/12 10:22	07/10/12 09:44	218-01-9		
Dibenz(a,h)anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	53-70-3		
Fluoranthene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	206-44-0		
Fluorene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	86-73-7		
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 09:44	193-39-5		
1-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	90-12-0		
2-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	91-57-6		
Naphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	91-20-3		
Phenanthrene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	85-01-8		
Pyrene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 09:44	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	42 %.		26-106	1	07/09/12 10:22	07/10/12 09:44	321-60-8		
p-Terphenyl-d14 (S)	40 %.		16-111	1	07/09/12 10:22	07/10/12 09:44	1718-51-0		

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: P-5		Lab ID: 5065563011		Collected: 07/03/12 14:50		Received: 07/03/12 16:51		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8021 GCV BTEX-Mtbe		Analytical Method: EPA 8021							
Benzene	ND ug/L		1.0	1		07/13/12 13:09	71-43-2		
Ethylbenzene	ND ug/L		5.0	1		07/13/12 13:09	100-41-4		
Methyl-tert-butyl ether	ND ug/L		4.0	1		07/13/12 13:09	1634-04-4		
Toluene	ND ug/L		5.0	1		07/13/12 13:09	108-88-3		
Xylene (Total)	ND ug/L		10.0	1		07/13/12 13:09	1330-20-7		
Surrogates									
a,a,a-Trifluorotoluene (S)	95 %.		69-123	1		07/13/12 13:09	98-08-8	H1,pH	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510							
Acenaphthene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	83-32-9		
Acenaphthylene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	208-96-8		
Anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	120-12-7		
Benzo(a)anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	56-55-3		
Benzo(a)pyrene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	50-32-8		
Benzo(b)fluoranthene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	205-99-2		
Benzo(g,h,i)perylene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	191-24-2		
Benzo(k)fluoranthene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	207-08-9		
Chrysene	ND ug/L		0.50	1	07/09/12 10:22	07/10/12 10:02	218-01-9		
Dibenz(a,h)anthracene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	53-70-3		
Fluoranthene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	206-44-0		
Fluorene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	86-73-7		
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	07/09/12 10:22	07/10/12 10:02	193-39-5		
1-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	90-12-0		
2-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	91-57-6		
Naphthalene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	91-20-3		
Phenanthrene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	85-01-8		
Pyrene	ND ug/L		1.0	1	07/09/12 10:22	07/10/12 10:02	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	35 %.		26-106	1	07/09/12 10:22	07/10/12 10:02	321-60-8		
p-Terphenyl-d14 (S)	34 %.		16-111	1	07/09/12 10:22	07/10/12 10:02	1718-51-0		

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: DUP-1		Lab ID: 5065563012	Collected: 07/03/12 08:00	Received: 07/03/12 16:51	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV BTEX-Mtbe</b>		Analytical Method: EPA 8021						
Benzene	3.5 ug/L		1.0	1		07/13/12 15:47	71-43-2	
Ethylbenzene	ND ug/L		5.0	1		07/13/12 15:47	100-41-4	
Methyl-tert-butyl ether	ND ug/L		4.0	1		07/13/12 15:47	1634-04-4	
Toluene	ND ug/L		5.0	1		07/13/12 15:47	108-88-3	
Xylene (Total)	ND ug/L		10.0	1		07/13/12 15:47	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	100 %.		69-123	1		07/13/12 15:47	98-08-8	H1,pH
<b>8270 MSSV PAHLV</b>		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	208-96-8	
Anthracene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	207-08-9	
Chrysene	ND ug/L		0.50	1	07/09/12 13:17	07/10/12 10:56	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	53-70-3	
Fluoranthene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	206-44-0	
Fluorene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	07/09/12 13:17	07/10/12 10:56	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	90-12-0	
2-Methylnaphthalene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	91-57-6	
Naphthalene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	91-20-3	
Phenanthrene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	85-01-8	
Pyrene	ND ug/L		1.0	1	07/09/12 13:17	07/10/12 10:56	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	51 %.		26-106	1	07/09/12 13:17	07/10/12 10:56	321-60-8	
p-Terphenyl-d14 (S)	65 %.		16-111	1	07/09/12 13:17	07/10/12 10:56	1718-51-0	

## ANALYTICAL RESULTS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Sample: TRIP		Lab ID: 5065563013	Collected: 07/03/12 08:00	Received: 07/03/12 16:51	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8021 GCV BTEX-Mtbe</b>		Analytical Method: EPA 8021						
Benzene	ND ug/L		1.0	1		07/13/12 14:21	71-43-2	
Ethylbenzene	ND ug/L		5.0	1		07/13/12 14:21	100-41-4	
Methyl-tert-butyl ether	ND ug/L		4.0	1		07/13/12 14:21	1634-04-4	
Toluene	ND ug/L		5.0	1		07/13/12 14:21	108-88-3	
Xylene (Total)	ND ug/L		10.0	1		07/13/12 14:21	1330-20-7	
<b>Surrogates</b>								
a,a,a-Trifluorotoluene (S)	93 %.		69-123	1		07/13/12 14:21	98-08-8	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

QC Batch:	GCV/15448	Analysis Method:	EPA 8021
QC Batch Method:	EPA 8021	Analysis Description:	8021 GCV BTEX-Mtbe
Associated Lab Samples:	5065563007, 5065563008, 5065563009, 5065563010, 5065563011, 5065563012, 5065563013		

METHOD BLANK: 766273 Matrix: Water

Associated Lab Samples: 5065563007, 5065563008, 5065563009, 5065563010, 5065563011, 5065563012, 5065563013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	07/13/12 11:08	
Ethylbenzene	ug/L	ND	5.0	07/13/12 11:08	
Methyl-tert-butyl ether	ug/L	ND	4.0	07/13/12 11:08	
Toluene	ug/L	ND	5.0	07/13/12 11:08	
Xylene (Total)	ug/L	ND	10.0	07/13/12 11:08	
a,a,a-Trifluorotoluene (S)	%	101	69-123	07/13/12 11:08	

LABORATORY CONTROL SAMPLE: 766274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	100	104	104	83-115	
Ethylbenzene	ug/L	100	102	102	80-117	
Methyl-tert-butyl ether	ug/L	100	102	102	78-114	
Toluene	ug/L	100	102	102	81-116	
Xylene (Total)	ug/L	300	305	102	81-118	
a,a,a-Trifluorotoluene (S)	%			109	69-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 766275 766276

Parameter	Units	5065646005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	100	100	98.2	101	98	101	50-139	3	20	
Ethylbenzene	ug/L	ND	100	100	90.5	96.4	91	96	45-136	6	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	93.4	97.1	93	97	46-135	4	20	
Toluene	ug/L	ND	100	100	92.7	97.6	93	98	50-134	5	20	
Xylene (Total)	ug/L	ND	300	300	267	289	89	96	43-137	8	20	
a,a,a-Trifluorotoluene (S)	%						97	91	69-123		20	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

QC Batch:	GCV/15416	Analysis Method:	EPA 8021
QC Batch Method:	EPA 8021	Analysis Description:	8021 GCV 5035
Associated Lab Samples:	5065563001, 5065563002, 5065563003, 5065563004, 5065563005, 5065563006		

METHOD BLANK: 763129 Matrix: Solid

Associated Lab Samples: 5065563001, 5065563002, 5065563003, 5065563004, 5065563005, 5065563006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	1.0	07/11/12 23:46	
Ethylbenzene	ug/kg	ND	5.0	07/11/12 23:46	
Methyl-tert-butyl ether	ug/kg	ND	4.0	07/11/12 23:46	
Toluene	ug/kg	ND	5.0	07/11/12 23:46	
Xylene (Total)	ug/kg	ND	10.0	07/11/12 23:46	
a,a,a-Trifluorotoluene (S)	%	90	42-176	07/11/12 23:46	

LABORATORY CONTROL SAMPLE: 763130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	95.4	95	88-115	
Ethylbenzene	ug/kg	100	94.0	94	84-117	
Methyl-tert-butyl ether	ug/kg	100	97.7	98	76-120	
Toluene	ug/kg	100	94.2	94	83-113	
Xylene (Total)	ug/kg	300	284	95	84-118	
a,a,a-Trifluorotoluene (S)	%			102	42-176	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 763131 763132

Parameter	Units	5065698007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	84.5	75.7	73.7	66.6	87	88	31-138	10	20	
Ethylbenzene	ug/kg	ND	84.5	75.7	53.5	49.0	63	65	10-149	9	20	
Methyl-tert-butyl ether	ug/kg	ND	84.5	75.7	70.3	65.6	83	87	12-165	7	20	
Toluene	ug/kg	ND	84.5	75.7	63.3	57.6	75	76	14-138	9	20	
Xylene (Total)	ug/kg	ND	254	227	155	142	61	63	10-146	9	20	
a,a,a-Trifluorotoluene (S)	%						107	107	42-176		20	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

QC Batch: OEXT/30082

Analysis Method: EPA 8270 by SIM LVE

QC Batch Method: EPA 3510

Analysis Description: 8270 Water PAH LV by SIM MSSV

Associated Lab Samples: 5065563007, 5065563008, 5065563009, 5065563010, 5065563011

METHOD BLANK: 762943

Matrix: Water

Associated Lab Samples: 5065563007, 5065563008, 5065563009, 5065563010, 5065563011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	07/09/12 14:17	
2-Methylnaphthalene	ug/L	ND	1.0	07/09/12 14:17	
Acenaphthene	ug/L	ND	1.0	07/09/12 14:17	
Acenaphthylene	ug/L	ND	1.0	07/09/12 14:17	
Anthracene	ug/L	ND	0.10	07/09/12 14:17	
Benzo(a)anthracene	ug/L	ND	0.10	07/09/12 14:17	
Benzo(a)pyrene	ug/L	ND	0.10	07/09/12 14:17	
Benzo(b)fluoranthene	ug/L	ND	0.10	07/09/12 14:17	
Benzo(g,h,i)perylene	ug/L	ND	0.10	07/09/12 14:17	
Benzo(k)fluoranthene	ug/L	ND	0.10	07/09/12 14:17	
Chrysene	ug/L	ND	0.50	07/09/12 14:17	
Dibenz(a,h)anthracene	ug/L	ND	0.10	07/09/12 14:17	
Fluoranthene	ug/L	ND	1.0	07/09/12 14:17	
Fluorene	ug/L	ND	1.0	07/09/12 14:17	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	07/09/12 14:17	
Naphthalene	ug/L	ND	1.0	07/09/12 14:17	
Phenanthrene	ug/L	ND	1.0	07/09/12 14:17	
Pyrene	ug/L	ND	1.0	07/09/12 14:17	
2-Fluorobiphenyl (S)	%	55	26-106	07/09/12 14:17	
p-Terphenyl-d14 (S)	%	79	16-111	07/09/12 14:17	

LABORATORY CONTROL SAMPLE: 762944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.7	47	24-104	
2-Methylnaphthalene	ug/L	10	4.4	44	24-104	
Acenaphthene	ug/L	10	5.1	51	31-108	
Acenaphthylene	ug/L	10	5.2	52	33-111	
Anthracene	ug/L	10	6.0	60	45-120	
Benzo(a)anthracene	ug/L	10	6.0	60	51-119	
Benzo(a)pyrene	ug/L	10	6.8	68	52-124	
Benzo(b)fluoranthene	ug/L	10	6.9	69	51-122	
Benzo(g,h,i)perylene	ug/L	10	6.3	63	48-112	
Benzo(k)fluoranthene	ug/L	10	6.5	65	53-123	
Chrysene	ug/L	10	6.5	65	54-118	
Dibenz(a,h)anthracene	ug/L	10	6.2	62	49-114	
Fluoranthene	ug/L	10	6.2	62	52-122	
Fluorene	ug/L	10	5.7	57	38-113	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.3	63	49-114	
Naphthalene	ug/L	10	4.5	45	27-103	
Phenanthrene	ug/L	10	5.7	57	43-112	



## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

LABORATORY CONTROL SAMPLE: 762944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	10	6.2	62	51-120	
2-Fluorobiphenyl (S)	%.			56	26-106	
p-Terphenyl-d14 (S)	%.			70	16-111	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

QC Batch: OEXT/30083

Analysis Method: EPA 8270 by SIM LVE

QC Batch Method: EPA 3510

Analysis Description: 8270 Water PAH LV by SIM MSSV

Associated Lab Samples: 5065563012

METHOD BLANK: 762945

Matrix: Water

Associated Lab Samples: 5065563012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	07/10/12 10:20	
2-Methylnaphthalene	ug/L	ND	1.0	07/10/12 10:20	
Acenaphthene	ug/L	ND	1.0	07/10/12 10:20	
Acenaphthylene	ug/L	ND	1.0	07/10/12 10:20	
Anthracene	ug/L	ND	0.10	07/10/12 10:20	
Benzo(a)anthracene	ug/L	ND	0.10	07/10/12 10:20	
Benzo(a)pyrene	ug/L	ND	0.10	07/10/12 10:20	
Benzo(b)fluoranthene	ug/L	ND	0.10	07/10/12 10:20	
Benzo(g,h,i)perylene	ug/L	ND	0.10	07/10/12 10:20	
Benzo(k)fluoranthene	ug/L	ND	0.10	07/10/12 10:20	
Chrysene	ug/L	ND	0.50	07/10/12 10:20	
Dibenz(a,h)anthracene	ug/L	ND	0.10	07/10/12 10:20	
Fluoranthene	ug/L	ND	1.0	07/10/12 10:20	
Fluorene	ug/L	ND	1.0	07/10/12 10:20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	07/10/12 10:20	
Naphthalene	ug/L	ND	1.0	07/10/12 10:20	
Phenanthrene	ug/L	ND	1.0	07/10/12 10:20	
Pyrene	ug/L	ND	1.0	07/10/12 10:20	
2-Fluorobiphenyl (S)	%	55	26-106	07/10/12 10:20	
p-Terphenyl-d14 (S)	%	85	16-111	07/10/12 10:20	

LABORATORY CONTROL SAMPLE: 762946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.7	47	24-104	
2-Methylnaphthalene	ug/L	10	4.3	43	24-104	
Acenaphthene	ug/L	10	4.9	49	31-108	
Acenaphthylene	ug/L	10	5.0	50	33-111	
Anthracene	ug/L	10	6.2	62	45-120	
Benzo(a)anthracene	ug/L	10	5.9	59	51-119	
Benzo(a)pyrene	ug/L	10	6.9	69	52-124	
Benzo(b)fluoranthene	ug/L	10	6.4	64	51-122	
Benzo(g,h,i)perylene	ug/L	10	6.0	60	48-112	
Benzo(k)fluoranthene	ug/L	10	7.2	72	53-123	
Chrysene	ug/L	10	6.8	68	54-118	
Dibenz(a,h)anthracene	ug/L	10	5.9	59	49-114	
Fluoranthene	ug/L	10	6.4	64	52-122	
Fluorene	ug/L	10	5.6	56	38-113	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.0	60	49-114	
Naphthalene	ug/L	10	4.3	43	27-103	
Phenanthrene	ug/L	10	5.4	54	43-112	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

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LABORATORY CONTROL SAMPLE: 762946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	10	6.4	64	51-120	
2-Fluorobiphenyl (S)	%.			52	26-106	
p-Terphenyl-d14 (S)	%.			70	16-111	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

QC Batch: OEXT/30066 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM  
Associated Lab Samples: 5065563001, 5065563002, 5065563003, 5065563004, 5065563005, 5065563006

METHOD BLANK: 762060 Matrix: Solid

Associated Lab Samples: 5065563001, 5065563002, 5065563003, 5065563004, 5065563005, 5065563006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	07/06/12 20:18	N2
2-Methylnaphthalene	ug/kg	ND	5.0	07/06/12 20:18	
Acenaphthene	ug/kg	ND	5.0	07/06/12 20:18	
Acenaphthylene	ug/kg	ND	5.0	07/06/12 20:18	
Anthracene	ug/kg	ND	5.0	07/06/12 20:18	
Benzo(a)anthracene	ug/kg	ND	5.0	07/06/12 20:18	
Benzo(a)pyrene	ug/kg	ND	5.0	07/06/12 20:18	
Benzo(b)fluoranthene	ug/kg	ND	5.0	07/06/12 20:18	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	07/06/12 20:18	
Benzo(k)fluoranthene	ug/kg	ND	5.0	07/06/12 20:18	
Chrysene	ug/kg	ND	5.0	07/06/12 20:18	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	07/06/12 20:18	
Fluoranthene	ug/kg	ND	5.0	07/06/12 20:18	
Fluorene	ug/kg	ND	5.0	07/06/12 20:18	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	07/06/12 20:18	
Naphthalene	ug/kg	ND	5.0	07/06/12 20:18	
Phenanthrene	ug/kg	ND	5.0	07/06/12 20:18	
Pyrene	ug/kg	ND	5.0	07/06/12 20:18	
2-Fluorobiphenyl (S)	%	69	46-109	07/06/12 20:18	
p-Terphenyl-d14 (S)	%	74	43-107	07/06/12 20:18	

LABORATORY CONTROL SAMPLE: 762061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	255	76	49-116	N2
2-Methylnaphthalene	ug/kg	333	256	77	49-116	
Acenaphthene	ug/kg	333	255	77	52-114	
Acenaphthylene	ug/kg	333	261	78	52-119	
Anthracene	ug/kg	333	262	79	55-124	
Benzo(a)anthracene	ug/kg	333	271	81	52-122	
Benzo(a)pyrene	ug/kg	333	277	83	56-131	
Benzo(b)fluoranthene	ug/kg	333	266	80	54-125	
Benzo(g,h,i)perylene	ug/kg	333	265	79	55-122	
Benzo(k)fluoranthene	ug/kg	333	284	85	55-128	
Chrysene	ug/kg	333	278	84	56-118	
Dibenz(a,h)anthracene	ug/kg	333	261	78	56-125	
Fluoranthene	ug/kg	333	270	81	55-125	
Fluorene	ug/kg	333	265	79	54-120	
Indeno(1,2,3-cd)pyrene	ug/kg	333	260	78	56-124	
Naphthalene	ug/kg	333	246	74	52-112	
Phenanthrene	ug/kg	333	263	79	53-116	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

LABORATORY CONTROL SAMPLE: 762061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	277	83	55-120	
2-Fluorobiphenyl (S)	%.			71	46-109	
p-Terphenyl-d14 (S)	%.			78	43-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 762062 762063

Parameter	Units	5065571001 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	379	379	245	262	64	68	43-106	7	20	N2
2-Methylnaphthalene	ug/kg	ND	379	379	247	269	64	70	43-106	8	20	
Acenaphthene	ug/kg	27.9	379	379	302	290	72	69	46-101	4	20	
Acenaphthylene	ug/kg	ND	379	379	240	270	63	71	47-105	11	20	
Anthracene	ug/kg	30.9	379	379	345	335	83	80	39-112	3	20	
Benzo(a)anthracene	ug/kg	508	379	379	1170	855	175	91	36-105	31	20	M0, R1
Benzo(a)pyrene	ug/kg	687	379	379	1310	1050	164	97	34-113	22	20	M0, R1
Benzo(b)fluoranthene	ug/kg	690	379	379	1250	1050	147	96	33-111	17	20	M0
Benzo(g,h,i)perylene	ug/kg	445	379	379	879	838	114	104	26-109	5	20	M0
Benzo(k)fluoranthene	ug/kg	537	379	379	1170	867	167	87	31-116	30	20	M0, R1
Chrysene	ug/kg	650	379	379	1410	1030	201	99	34-109	32	20	M0, R1
Dibenz(a,h)anthracene	ug/kg	209	379	379	562	507	93	78	32-111	10	20	
Fluoranthene	ug/kg	574	379	379	1490	1050	240	124	33-117	35	20	M0, R1
Fluorene	ug/kg	5.7	379	379	259	285	67	74	44-107	10	20	
Indeno(1,2,3-cd)pyrene	ug/kg	425	379	379	836	745	108	84	27-113	12	20	
Naphthalene	ug/kg	6.5	379	379	242	262	62	67	45-106	8	20	
Phenanthrene	ug/kg	119	379	379	610	568	129	118	42-103	7	20	M0
Pyrene	ug/kg	583	379	379	1390	1060	212	127	36-111	27	20	M0, R1
2-Fluorobiphenyl (S)	%.						61	66	46-109		20	
p-Terphenyl-d14 (S)	%.						68	76	43-107		20	

## QUALITY CONTROL DATA

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

QC Batch: PMST/7222 Analysis Method: ASTM D2974-87  
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
Associated Lab Samples: 5065563001, 5065563002, 5065563003, 5065563004, 5065563005, 5065563006

SAMPLE DUPLICATE: 762215

Parameter	Units	5065350001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	14.1	4	5	

SAMPLE DUPLICATE: 762216

Parameter	Units	5065563006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.7	9.9	3	5	

## QUALIFIERS

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

1d	Diluted due to lack of samples. PTH 7/12/12
D4	Sample was diluted due to the presence of high levels of target analytes.
H1	Analysis conducted outside the EPA method holding time.
J	Analyte detected below reporting limit, therefore result is an estimate.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bob's Car Wash 321093

Pace Project No.: 5065563

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5065563007	P-1	EPA 8021	GCV/15448		
5065563008	P-2	EPA 8021	GCV/15448		
5065563009	P-3	EPA 8021	GCV/15448		
5065563010	P-4	EPA 8021	GCV/15448		
5065563011	P-5	EPA 8021	GCV/15448		
5065563012	DUP-1	EPA 8021	GCV/15448		
5065563013	TRIP	EPA 8021	GCV/15448		
5065563001	P-1 4-6	EPA 8021	GCV/15416		
5065563002	P-2 18-20	EPA 8021	GCV/15416		
5065563003	P-3 18-20	EPA 8021	GCV/15416		
5065563004	P-4 10-12	EPA 8021	GCV/15416		
5065563005	P-5 18-20	EPA 8021	GCV/15416		
5065563006	DUP	EPA 8021	GCV/15416		
5065563007	P-1	EPA 3510	OEXT/30082	EPA 8270 by SIM LVE	MSSV/10487
5065563008	P-2	EPA 3510	OEXT/30082	EPA 8270 by SIM LVE	MSSV/10487
5065563009	P-3	EPA 3510	OEXT/30082	EPA 8270 by SIM LVE	MSSV/10487
5065563010	P-4	EPA 3510	OEXT/30082	EPA 8270 by SIM LVE	MSSV/10487
5065563011	P-5	EPA 3510	OEXT/30082	EPA 8270 by SIM LVE	MSSV/10487
5065563012	DUP-1	EPA 3510	OEXT/30083	EPA 8270 by SIM LVE	MSSV/10492
5065563001	P-1 4-6	EPA 3546	OEXT/30066	EPA 8270 by SIM	MSSV/10477
5065563002	P-2 18-20	EPA 3546	OEXT/30066	EPA 8270 by SIM	MSSV/10477
5065563003	P-3 18-20	EPA 3546	OEXT/30066	EPA 8270 by SIM	MSSV/10477
5065563004	P-4 10-12	EPA 3546	OEXT/30066	EPA 8270 by SIM	MSSV/10477
5065563005	P-5 18-20	EPA 3546	OEXT/30066	EPA 8270 by SIM	MSSV/10477
5065563006	DUP	EPA 3546	OEXT/30066	EPA 8270 by SIM	MSSV/10477
5065563001	P-1 4-6	ASTM D2974-87	PMST/7222		
5065563002	P-2 18-20	ASTM D2974-87	PMST/7222		
5065563003	P-3 18-20	ASTM D2974-87	PMST/7222		
5065563004	P-4 10-12	ASTM D2974-87	PMST/7222		
5065563005	P-5 18-20	ASTM D2974-87	PMST/7222		
5065563006	DUP	ASTM D2974-87	PMST/7222		



# Sample Container Count

CLIENT: American Env.

COC PAGE 1 of 1

COC ID# \_\_\_\_\_

Project # \_\_\_\_\_



Sample Line

Item	DG9H	AG1U	WG9U	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3		1	1	4									
2	↓		↓	↓	↓									
3														
4														
5														
6	↓		↓	↓	↓									
7	2													Trip Blanks
8														
9														
10														
11														
12														

## Container Codes

DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG9U	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

# Sample Condition Upon Receipt



Client Name: American Env.

Project # 5065563

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

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

Thermometer Used 12346ABCDE

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature 4.3°C

Ice Visible in Sample Containers: ☐ yes ☒ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: KA 7/3/12

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. <u>TE's</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
-Includes date/time/ID/Analysis		
All containers needing acid/base pres. have been checked?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. (Circle) HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH HCl
exceptions: VOA, coliform, TOC, O&G		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10. <u>See Notes</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Field Data Required?

Y / N

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

Comments/ Resolution:

P-3 (3)  
P-5 (3)  
Trip Blank (1)

Project Manager Review:

Date:

## ✓h

**American  
Environmental**

# **Appendix C - Regulatory Reports**

**JT0460.710.0001**

703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

Inquiry Number: 05567149.2r  
February 20, 2019

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### **TARGET PROPERTY INFORMATION**

#### **ADDRESS**

703, 711, 801, & REAR LOT OF 2ND STREET  
COLUMBUS, IN 47201

#### **COORDINATES**

Latitude (North):	39.1997510 - 39° 11' 59.10"
Longitude (West):	85.9163290 - 85° 54' 58.78"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	593576.1
UTM Y (Meters):	4339294.5
Elevation:	619 ft. above sea level

### **USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

Target Property Map:	5945355 COLUMBUS, IN
Version Date:	2013

### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from:	20140705
Source:	USDA

# MAPPED SITES SUMMARY

Target Property Address:  
703, 711, 801, & REAR LOT OF 2ND STREET  
COLUMBUS, IN 47201

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	PREMIER AGRICULTURAL	801 2ND ST	IN UST		TP
<a href="#">A2</a>		801 2ND AVE	IN SPILLS		TP
<a href="#">A3</a>	ROBO-WASH OF INDIANA	711 E 2ND ST	EDR Hist Auto		TP
<a href="#">A4</a>	BARTHOLOMEW COUNTY R	801 SECOND ST	FINDS		TP
<a href="#">A5</a>	BOBS CAR WASH	711 2ND ST	FINDS		TP
<a href="#">A6</a>	BARTHOLOMEW COUNTY R	801 SECOND ST	FTTS, HIST FTTS		TP
<a href="#">A7</a>	BOB'S CAR WASH	711 2ND ST	IN RGA LUST		TP
<a href="#">A8</a>	COLUMBUS INDOOR SPOR	701-703 2ND ST	FINDS		TP
<a href="#">A9</a>		703 2ND ST	IN ASBESTOS		TP
<a href="#">A10</a>		801 2ND ST	IN SPILLS		TP
<a href="#">A11</a>	BOBS CAR WASH	711 2ND ST	IN LUST, IN UST, IN ASBESTOS		TP
<a href="#">Reg</a>	COLUMBUS OLD MUNICI	3RD ST BRIDGE AT WHI	Delisted NPL, SEMS, US ENG CONTROLS, ROD, ICIS,...	Same	1628, 0.308, SW
<a href="#">B12</a>	FORMER COLUMBUS WOOD	705 2ND STREET	US BROWNFIELDS, FINDS	Higher	1 ft.
<a href="#">B13</a>	LOT 2B	701 2ND ST	IN BROWNFIELDS	Higher	1 ft.
<a href="#">B14</a>	COLUMBUS WOOD TREATI	705 2ND ST	IN BROWNFIELDS	Higher	1 ft.
<a href="#">B15</a>	COLUMBUS WOOD TREATI	705 2ND STREET	IN VCP	Higher	1 ft.
<a href="#">B16</a>	SECOND STREET SAVE 1	610 2ND ST	IN UST	Higher	58, 0.011, WNW
<a href="#">C17</a>	PREMIER AG CO-OP INC	867 2ND ST	EDR Hist Auto	Higher	146, 0.028, ENE
<a href="#">C18</a>	TOMS FOOD & FUEL	867 E 2ND ST	IN UST	Higher	146, 0.028, ENE
<a href="#">19</a>	PAPA'S DELI	819 3RD STREET	US BROWNFIELDS	Higher	169, 0.032, NE
<a href="#">20</a>	FORMER COLUMBUS WOOD	53 LAFAYETTE AVE	RCRA-CESQG, FINDS, ECHO	Higher	281, 0.053, SW
<a href="#">D21</a>	GRAHAM TODD BUILDING	215 FRANKLIN ST	IN UST	Higher	372, 0.070, WNW
<a href="#">E22</a>	COLUMBUS WOOD PRESER	500 BLOCK OF 1ST ST	SEMS-ARCHIVE, IN BROWNFIELDS	Higher	383, 0.073, West
<a href="#">D23</a>	BARTHOLOMEW COUNTY C	500 2ND ST	IN SWRCY	Higher	387, 0.073, WNW
<a href="#">F24</a>	BARTHOLOMEW COUNTY F	901 THIRD ST	IN LUST	Higher	422, 0.080, NE
<a href="#">25</a>	MILLER OIL OF INDIAN	10 S FRANKLIN ST	IN LUST, IN UST	Higher	424, 0.080, WSW
<a href="#">E26</a>	MILLER OIL OF INDIAN	10 FRANKLIN ST	IN AUL, RCRA NonGen / NLR, FINDS, ECHO, IN...	Higher	459, 0.087, WSW
<a href="#">G27</a>	TRIANGLE SERVICE STA	600-02 3RD ST	EDR Hist Auto	Higher	481, 0.091, NW
<a href="#">G28</a>	NATIONAL ICE COMPANY	542 3RD ST	IN LUST, IN UST, IN AUL	Higher	488, 0.092, NW
<a href="#">G29</a>	ICE HOUSE COMMUNITY	540 3RD ST	IN MANIFEST	Higher	505, 0.096, NW
<a href="#">G30</a>	ICE HOUSE COMMUNITY	540 3RD ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	505, 0.096, NW
<a href="#">F31</a>	TAGGART RALPH	924 3RD ST	EDR Hist Auto	Higher	537, 0.102, NE
<a href="#">F32</a>	NATIONAL CAR RENTAL	924 3RD ST	IN LUST, IN UST	Higher	537, 0.102, NE
<a href="#">F33</a>	CRYSTAL FLASH	910 THIRD ST	EDR Hist Auto	Higher	561, 0.106, NE
<a href="#">F34</a>	JACKS PLACE 2	910 3RD ST	IN LUST, IN UST	Higher	561, 0.106, NE
<a href="#">35</a>	BARTHOLOMEW COUNTY H	440 3RD ST STE 303	IN OISC	Higher	720, 0.136, NW
<a href="#">36</a>	FIRST CHRISTIAN CHUR	541 4TH ST	IN SWRCY	Higher	774, 0.147, NW
<a href="#">H37</a>	ART'S CLEANERS	326 CALIFORNIA ST	IN DRYCLEANERS	Higher	778, 0.147, NE
<a href="#">H38</a>	ARTS CLEANERS	326 CALIFORNIA ST	IN UST	Higher	778, 0.147, NE



# MAPPED SITES SUMMARY

Target Property Address:  
703, 711, 801, & REAR LOT OF 2ND STREET  
COLUMBUS, IN 47201

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">H39</a>	ARTS CLEANERS INC	326 CALIFORNIA ST	RCRA-SQG, FINDS, ECHO, IN IND WASTE, IN MANIFEST,...	Higher	778, 0.147, NE
<a href="#">I40</a>	MARIAH FOODS	1333 INDIANA AVE	IN UST	Lower	1058, 0.200, ESE
<a href="#">I41</a>	MARIAH FOODS INCORPO	1333 INDIANA AVENUE	IN AUL, IN VCP, IN SPILLS, IN AIRS, IN NPDES, IN...	Lower	1058, 0.200, ESE
<a href="#">42</a>	COLUMBUS WASTE WATER	327 WATER ST	IN UST, FINDS, ECHO	Lower	1066, 0.202, SW
<a href="#">J43</a>	SEARS AUTO CENTER 61	222 COURTHOUSE CTR	IN UST	Higher	1122, 0.213, WNW
<a href="#">44</a>	E. COHN CO.	715 5TH ST	IN SWRCY	Higher	1157, 0.219, North
<a href="#">45</a>	FIRST CHRISTIAN CHUR	531 5TH ST	IN UST	Higher	1202, 0.228, NNW
<a href="#">J46</a>	COMMONS MALL	332 COMMONS MALL	IN AUL, IN BROWNFIELDS	Higher	1248, 0.236, WNW
<a href="#">47</a>		912 5TH ST	IN OISC	Higher	1250, 0.237, NNE
<a href="#">K48</a>	IND BELL TEL CO CUMM	1000 5TH ST	RCRA NonGen / NLR, IN MANIFEST	Higher	1270, 0.241, NNE
<a href="#">K49</a>	CUMMINS ENGINE PLANT	1000 5TH ST	IN LUST, IN UST, IN SPILLS	Higher	1270, 0.241, NNE
<a href="#">K50</a>	CUMMINS INCORPORATED	500 CENTRAL AVE	RCRA-CESQG, PADS, IN MANIFEST	Higher	1270, 0.241, NNE
<a href="#">K51</a>	CUMMINS ENGINE COMPA	1000 FIFTH ST	IN IND WASTE, IN TIER 2	Higher	1270, 0.241, NNE
<a href="#">52</a>	COLUMBUS CITY HALL	123 WASHINGTON ST	IN UST, FINDS	Lower	1283, 0.243, SW
<a href="#">53</a>	GRIFFIN INDUSTRIES,	345 WATER STREET, P.	IN SWRCY	Lower	1385, 0.262, WSW
<a href="#">54</a>	COLUMBUS FOOD MART 1	1521 STATE ST	IN LUST, IN UST	Higher	1683, 0.319, East
<a href="#">55</a>	CUMMINS INCORPORATED	500 JACKSON ST	IN LUST, IN UST	Higher	1876, 0.355, NW
<a href="#">56</a>	ST BARTHOLOMEWS	725-745 SYCAMORE	IN BROWNFIELDS	Higher	2115, 0.401, North
<a href="#">L57</a>	ROCKWELL AUTOMATION	1225 7TH ST	IN LUST, IN UST, IN AIRS, IN IND WASTE	Higher	2360, 0.447, NE
<a href="#">L58</a>	ROCKWELL AUTOMATION	1225 7TH ST	IN BROWNFIELDS, RCRA NonGen / NLR, IN MANIFEST	Higher	2360, 0.447, NE
<a href="#">M59</a>	CARL L WILLIAMS	333 8TH ST	IN LUST, IN UST	Higher	2478, 0.469, NNW
<a href="#">M60</a>	VACANT LOT	8TH & WASHINGTON ST	IN LUST	Higher	2499, 0.473, NNW
<a href="#">61</a>	FIRST UNITED METHODI	618 8TH ST	IN SWRCY	Higher	2515, 0.476, North
<a href="#">M62</a>	A & H SERVICE	803 WASHINGTON ST	IN LUST, IN UST	Higher	2561, 0.485, NNW
<a href="#">63</a>	INDIANA GAS/COLUMBUS	WEST STREET (PARK)	EDR MGP	Lower	3295, 0.624, WNW

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
PREMIER AGRICULTURAL 801 2ND ST COLUMBUS, IN 47201	IN UST Facility Id: 1848 Tank Status: Permanently Out of Service	N/A
801 2ND AVE 801 2ND AVE COLUMBUS, IN 47201	IN SPILLS Facility Id: 200806153	N/A
ROBO-WASH OF INDIANA 711 E 2ND ST COLUMBUS, IN 47201	EDR Hist Auto	N/A
BARTHOLOMEW COUNTY R 801 SECOND ST COLUMBUS, IN 47201	FINDS Registry ID:: 110011883747	N/A
BOBS CAR WASH 711 2ND ST COLUMBUS, IN 47201	FINDS Registry ID:: 110012127643	N/A
BARTHOLOMEW COUNTY R 801 SECOND ST COLUMBUS, IN 47201	FTTS Database: FTTS INSP, Date of Government Version: 04/09/2009 HIST FTTS Database: HIST FTTS INSP, Date of Government Version: 10/19/2006	N/A
BOB'S CAR WASH 711 2ND ST COLUMBUS, IN	IN RGA LUST Facility ID: 14812 Facility ID: 14812.0	N/A
COLUMBUS INDOOR SPOR 701-703 2ND ST COLUMBUS, IN 47201	FINDS Registry ID:: 110058601197	N/A
703 2ND ST 703 2ND ST COLUMBUS, IN	IN ASBESTOS	N/A
801 2ND ST 801 2ND ST COLUMBUS, IN 47201	IN SPILLS	N/A

## EXECUTIVE SUMMARY

Facility Id: 199307206

BOBS CAR WASH  
711 2ND ST  
COLUMBUS, IN 47201

IN LUST  
Facility Id: 14812  
Description: Discontinued (active)  
  
IN UST  
Facility Id: 14812  
Tank Status: Permanently Out of Service  
  
IN ASBESTOS

N/A

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

#### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US INST CONTROL..... Sites with Institutional Controls

#### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

## EXECUTIVE SUMMARY

### **State- and tribal - equivalent CERCLIS**

IN SHWS..... List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

### **State and tribal landfill and/or solid waste disposal site lists**

IN OPEN DUMPS..... Open Dump Waste Sites  
IN SWF/LF..... Permitted Solid Waste Facilities

### **State and tribal leaking storage tank lists**

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

FEMA UST..... Underground Storage Tank Listing  
IN AST..... Above Ground Storage Tanks  
INDIAN UST..... Underground Storage Tanks on Indian Land

### **State and tribal voluntary cleanup sites**

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

IN SWTIRE..... Waste Tire Sites Listing  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory  
IHS OPEN DUMPS..... Open Dumps on Indian Land

#### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL..... Delisted National Clandestine Laboratory Register  
IN CDL..... Clandestine Drug Lab Listing  
IN DEL SHWS..... Deleted Commissioner's Bulletin Sites List  
US CDL..... National Clandestine Laboratory Register

#### **Local Land Records**

LIENS 2..... CERCLA Lien Information

#### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
IN SPILLS 90..... SPILLS 90 data from FirstSearch  
IN SPILLS 80..... SPILLS 80 data from FirstSearch

#### **Other Ascertainable Records**

FUDS..... Formerly Used Defense Sites

## EXECUTIVE SUMMARY

DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
IN BULK.....	Registered Bulk Fertilizer and Pesticide Storage Facilities
IN CFO.....	Confined Feeding Operations
IN COAL ASH.....	Coal Ash Disposal Sites
IN Financial Assurance.....	Financial Assurance Information Listing
IN UIC.....	UIC Site Listing

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

IN RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List  
 IN RGA LF..... Recovered Government Archive Solid Waste Facilities List

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal Delisted NPL site list***

Delisted NPL: The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

A review of the Delisted NPL list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 Delisted NPL site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COLUMBUS OLD MUNICIPAL</b> EPA ID:: IND980607626 Site ID:: 501673	<b>3RD ST BRIDGE AT WHI</b>	<b>SW 1/4 - 1/2 (0.308 mi.)</b>	<b>0</b>	<b>13</b>

#### ***Federal CERCLIS list***

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COLUMBUS OLD MUNICIPAL</b> Site ID: 0501673 EPA ID: IND980607626	<b>3RD ST BRIDGE AT WHI</b>	<b>SW 1/4 - 1/2 (0.308 mi.)</b>	<b>0</b>	<b>13</b>

#### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 12/13/2018 has revealed that there

## EXECUTIVE SUMMARY

is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COLUMBUS WOOD PRESER</b> Site ID: 0502096 EPA Id: IND981957046	<b>500 BLOCK OF 1ST ST</b>	<b>W 0 - 1/8 (0.073 mi.)</b>	<b>E22</b>	<b>66</b>

### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ARTS CLEANERS INC</b> EPA ID:: IND016238586	<b>326 CALIFORNIA ST</b>	<b>NE 1/8 - 1/4 (0.147 mi.)</b>	<b>H39</b>	<b>87</b>

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FORMER COLUMBUS WOOD</b> EPA ID:: INR000138354	<b>53 LAFAYETTE AVE</b>	<b>SW 0 - 1/8 (0.053 mi.)</b>	<b>20</b>	<b>63</b>
<b>CUMMINS INCORPORATED</b> EPA ID:: IND990849770	<b>500 CENTRAL AVE</b>	<b>NNE 1/8 - 1/4 (0.241 mi.)</b>	<b>K50</b>	<b>124</b>

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 07/31/2018 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COLUMBUS OLD MUNICIP</b>	<b>3RD ST BRIDGE AT WHI</b>	<b>SW 1/4 - 1/2 (0.308 mi.)</b>	<b>0</b>	<b>13</b>

## EXECUTIVE SUMMARY

EPA ID:: IND980607626  
EPA ID:: IND980607626

### State and tribal leaking storage tank lists

IN LUST: Lust List.

A review of the IN LUST list, as provided by EDR, and dated 11/01/2018 has revealed that there are 12 IN LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BARTHOLOMEW COUNTY F Facility Id: 22650 Description: Deactivated (no release confirmed)	901 THIRD ST	NE 0 - 1/8 (0.080 mi.)	F24	69
<b>MILLER OIL OF INDIAN</b> Facility Id: 14956 Description: NFA-Conditional Closure	<b>10 S FRANKLIN ST</b>	<b>WSW 0 - 1/8 (0.080 mi.)</b>	<b>25</b>	<b>70</b>
<b>NATIONAL ICE COMPANY</b> Facility Id: 13761 Description: NFA-Conditional Closure	<b>542 3RD ST</b>	<b>NW 0 - 1/8 (0.092 mi.)</b>	<b>G28</b>	<b>75</b>
<b>NATIONAL CAR RENTAL</b> Facility Id: 7958 Description: NFA-Unconditional Closure	<b>924 3RD ST</b>	<b>NE 0 - 1/8 (0.102 mi.)</b>	<b>F32</b>	<b>80</b>
<b>JACKS PLACE 2</b> Facility Id: 3301 Description: NFA-Unconditional Closure	<b>910 3RD ST</b>	<b>NE 0 - 1/8 (0.106 mi.)</b>	<b>F34</b>	<b>81</b>
<b>CUMMINS ENGINE PLANT</b> Facility Id: 11666 Description: NFA-Unconditional Closure	<b>1000 5TH ST</b>	<b>NNE 1/8 - 1/4 (0.241 mi.)</b>	<b>K49</b>	<b>119</b>
<b>COLUMBUS FOOD MART 1</b> Facility Id: 223 Description: NFA-Unconditional Closure	<b>1521 STATE ST</b>	<b>E 1/4 - 1/2 (0.319 mi.)</b>	<b>54</b>	<b>144</b>
<b>CUMMINS INCORPORATED</b> Facility Id: 25601 Description: NFA-Unconditional Closure	<b>500 JACKSON ST</b>	<b>NW 1/4 - 1/2 (0.355 mi.)</b>	<b>55</b>	<b>146</b>
<b>ROCKWELL AUTOMATION</b> Facility Id: 8133 Description: NFA-Unconditional Closure	<b>1225 7TH ST</b>	<b>NE 1/4 - 1/2 (0.447 mi.)</b>	<b>L57</b>	<b>147</b>
<b>CARL L WILLIAMS</b> Facility Id: 13794 Description: NFA-Unconditional Closure	<b>333 8TH ST</b>	<b>NNW 1/4 - 1/2 (0.469 mi.)</b>	<b>M59</b>	<b>155</b>
VACANT LOT Facility Id: 18994 Description: NFA-Unconditional Closure	8TH & WASHINGTON ST	NNW 1/4 - 1/2 (0.473 mi.)	M60	155
<b>A &amp; H SERVICE</b> Facility Id: 3139 Description: NFA-Unconditional Closure	<b>803 WASHINGTON ST</b>	<b>NNW 1/4 - 1/2 (0.485 mi.)</b>	<b>M62</b>	<b>159</b>



## EXECUTIVE SUMMARY

### State and tribal registered storage tank lists

IN UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Management's Indiana Registered Underground Storage Tanks list.

A review of the IN UST list, as provided by EDR, and dated 11/01/2018 has revealed that there are 14 IN UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SECOND STREET SAVE 1 Facility Id: 7469 Tank Status: Permanently Out of Service	610 2ND ST	WNW 0 - 1/8 (0.011 mi.)	B16	53
TOMS FOOD & FUEL Facility Id: 18438 Tank Status: Currently in use	867 E 2ND ST	ENE 0 - 1/8 (0.028 mi.)	C18	54
GRAHAM TODD BUILDING Facility Id: 15889 Tank Status: Permanently Out of Service	215 FRANKLIN ST	WNW 0 - 1/8 (0.070 mi.)	D21	65
<b>MILLER OIL OF INDIAN</b> Facility Id: 14956 Tank Status: Unregulated (not billed) Tank Status: Permanently Out of Service	<b>10 S FRANKLIN ST</b>	<b>WSW 0 - 1/8 (0.080 mi.)</b>	<b>25</b>	<b>70</b>
<b>NATIONAL ICE COMPANY</b> Facility Id: 13761 Tank Status: Permanently Out of Service	<b>542 3RD ST</b>	<b>NW 0 - 1/8 (0.092 mi.)</b>	<b>G28</b>	<b>75</b>
<b>NATIONAL CAR RENTAL</b> Facility Id: 7958 Tank Status: Permanently Out of Service	<b>924 3RD ST</b>	<b>NE 0 - 1/8 (0.102 mi.)</b>	<b>F32</b>	<b>80</b>
<b>JACKS PLACE 2</b> Facility Id: 3301 Tank Status: Currently in use Tank Status: Permanently Out of Service	<b>910 3RD ST</b>	<b>NE 0 - 1/8 (0.106 mi.)</b>	<b>F34</b>	<b>81</b>
ARTS CLEANERS Facility Id: 1223 Facility Id: 826 Tank Status: Permanently Out of Service	326 CALIFORNIA ST	NE 1/8 - 1/4 (0.147 mi.)	H38	86
SEARS AUTO CENTER 61 Facility Id: 14021 Tank Status: Permanently Out of Service	222 COURTHOUSE CTR	WNW 1/8 - 1/4 (0.213 mi.)	J43	112
FIRST CHRISTIAN CHUR Facility Id: 1965 Tank Status: Permanently Out of Service	531 5TH ST	NNW 1/8 - 1/4 (0.228 mi.)	45	115
<b>CUMMINS ENGINE PLANT</b> Facility Id: 11666 Tank Status: Currently in use Tank Status: Permanently Out of Service	<b>1000 5TH ST</b>	<b>NNE 1/8 - 1/4 (0.241 mi.)</b>	<b>K49</b>	<b>119</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARIAH FOODS	1333 INDIANA AVE	ESE 1/8 - 1/4 (0.200 mi.)	I40	99

## EXECUTIVE SUMMARY

Facility Id: 17288  
 Tank Status: Unregulated (not billed)  
 Tank Status: Permanently Out of Service

**COLUMBUS WASTE WATER**      **327 WATER ST**      **SW 1/8 - 1/4 (0.202 mi.)**      **42**      **110**

Facility Id: 3398  
 Tank Status: Unregulated (not billed)  
 Tank Status: Permanently Out of Service

**COLUMBUS CITY HALL**      **123 WASHINGTON ST**      **SW 1/8 - 1/4 (0.243 mi.)**      **52**      **143**

Facility Id: 15891  
 Tank Status: Unregulated (not billed)

### **State and tribal institutional control / engineering control registries**

IN AUL: A listing of Comfort/Site Status Letter sites that have been issued with Institutional Controls.

A review of the IN AUL list, as provided by EDR, and dated 11/05/2018 has revealed that there are 4 IN AUL sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MILLER OIL OF INDIAN</b> Facility Id: 14956	<b>10 FRANKLIN ST</b>	<b>WSW 0 - 1/8 (0.087 mi.)</b>	<b>E26</b>	<b>71</b>
<b>NATIONAL ICE COMPANY</b> Facility Id: 13761	<b>542 3RD ST</b>	<b>NW 0 - 1/8 (0.092 mi.)</b>	<b>G28</b>	<b>75</b>
<b>COMMONS MALL</b> Facility Id: 4080902	<b>332 COMMONS MALL</b>	<b>WNW 1/8 - 1/4 (0.236 mi.)</b>	<b>J46</b>	<b>115</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MARIAH FOODS INCORPO</b> Facility Id: 6970606	<b>1333 INDIANA AVENUE</b>	<b>ESE 1/8 - 1/4 (0.200 mi.)</b>	<b>I41</b>	<b>100</b>

### **State and tribal voluntary cleanup sites**

IN VCP: Department of Environmental Management's current list of Voluntary Remediation Program sites that are no longer confidential.

A review of the IN VCP list, as provided by EDR, and dated 10/23/2018 has revealed that there are 2 IN VCP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COLUMBUS WOOD TREATI</b> Status: Inactive VRP Id Number: 6060703	<b>705 2ND STREET</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>B15</b>	<b>52</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MARIAH FOODS INCORPO</b>	<b>1333 INDIANA AVENUE</b>	<b>ESE 1/8 - 1/4 (0.200 mi.)</b>	<b>I41</b>	<b>100</b>

## EXECUTIVE SUMMARY

Status: Inactive  
VRP Id Number: 6970606

### State and tribal Brownfields sites

IN BROWNFIELDS: >A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redevelopment is complicated due to the actual or perceived environmental contamination.

A review of the IN BROWNFIELDS list, as provided by EDR, and dated 08/17/2018 has revealed that there are 6 IN BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOT 2B Facility Id: 4080515	701 2ND ST	0 - 1/8 (0.000 mi.)	B13	52
COLUMBUS WOOD TREATI Facility Id: 4100901	705 2ND ST	0 - 1/8 (0.000 mi.)	B14	52
<b>COLUMBUS WOOD PRESER</b> Facility Id: 4990007	<b>500 BLOCK OF 1ST ST</b>	<b>W 0 - 1/8 (0.073 mi.)</b>	<b>E22</b>	<b>66</b>
<b>COMMONS MALL</b> Facility Id: 4080902	<b>332 COMMONS MALL</b>	<b>WNW 1/8 - 1/4 (0.236 mi.)</b>	<b>J46</b>	<b>115</b>
ST BARTHOLOMEWS Facility Id: 4151010	725-745 SYCAMORE	N 1/4 - 1/2 (0.401 mi.)	56	146
<b>ROCKWELL AUTOMATION</b> Facility Id: 4030046	<b>1225 7TH ST</b>	<b>NE 1/4 - 1/2 (0.447 mi.)</b>	<b>L58</b>	<b>148</b>

### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/17/2018 has revealed that there are 2 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FORMER COLUMBUS WOOD</b> ACRES property ID: 161722	<b>705 2ND STREET</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>B12</b>	<b>24</b>
PAPA'S DELI ACRES property ID: 235682	819 3RD STREET	NE 0 - 1/8 (0.032 mi.)	19	55

## EXECUTIVE SUMMARY

### Local Lists of Landfill / Solid Waste Disposal Sites

IN SWRCY: A listing of recycling facilities located in the state of Indiana.

A review of the IN SWRCY list, as provided by EDR, and dated 01/15/2019 has revealed that there are 5 IN SWRCY sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BARTHOLOMEW COUNTY C	500 2ND ST	WNW 0 - 1/8 (0.073 mi.)	D23	67
FIRST CHRISTIAN CHUR	541 4TH ST	NW 1/8 - 1/4 (0.147 mi.)	36	84
E. COHN CO.	715 5TH ST	N 1/8 - 1/4 (0.219 mi.)	44	113
FIRST UNITED METHODIST	618 8TH ST	N 1/4 - 1/2 (0.476 mi.)	61	156
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GRIFFIN INDUSTRIES,	345 WATER STREET, P.	WSW 1/4 - 1/2 (0.262 mi.)	53	144

### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MILLER OIL OF INDIAN</b> EPA ID:: INR000106013	<b>10 FRANKLIN ST</b>	<b>WSW 0 - 1/8 (0.087 mi.)</b>	<b>E26</b>	<b>71</b>
<b>ICE HOUSE COMMUNITY</b> EPA ID:: INR000135798	<b>540 3RD ST</b>	<b>NW 0 - 1/8 (0.096 mi.)</b>	<b>G30</b>	<b>76</b>
<b>IND BELL TEL CO CUMM</b> EPA ID:: INT190014134	<b>1000 5TH ST</b>	<b>NNE 1/8 - 1/4 (0.241 mi.)</b>	<b>K48</b>	<b>117</b>

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COLUMBUS OLD MUNICIPAL</b> EPA ID:: IND980607626	<b>3RD ST BRIDGE AT WHI</b>	<b>SW 1/4 - 1/2 (0.308 mi.)</b>	<b>0</b>	<b>13</b>

## EXECUTIVE SUMMARY

### IN DRYCLEANERS: Drycleaner Facility Listing.

A review of the IN DRYCLEANERS list, as provided by EDR, and dated 10/17/2017 has revealed that there is 1 IN DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ART'S CLEANERS Facility Id: IN0503411	326 CALIFORNIA ST	NE 1/8 - 1/4 (0.147 mi.)	H37	85

### IN IND WASTE: The listing contains industrial waste site locations in Indiana, provided by personnel of Indiana Department of Environmental Management, Office of Land Quality.

A review of the IN IND WASTE list, as provided by EDR, and dated 08/04/2015 has revealed that there are 2 IN IND WASTE sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ARTS CLEANERS INC</b> Regulatory: IND016238586	<b>326 CALIFORNIA ST</b>	<b>NE 1/8 - 1/4 (0.147 mi.)</b>	<b>H39</b>	<b>87</b>
<b>CUMMINS ENGINE COMPA</b> Regulatory: IND990849770	<b>1000 FIFTH ST</b>	<b>NNE 1/8 - 1/4 (0.241 mi.)</b>	<b>K51</b>	<b>136</b>

### IN MANIFEST:

A review of the IN MANIFEST list, as provided by EDR, and dated 12/31/2016 has revealed that there are 5 IN MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MILLER OIL OF INDIAN</b> EPA ID: INR000106013	<b>10 FRANKLIN ST</b>	<b>WSW 0 - 1/8 (0.087 mi.)</b>	<b>E26</b>	<b>71</b>
ICE HOUSE COMMUNITY EPA ID: INR000135798	540 3RD ST	NW 0 - 1/8 (0.096 mi.)	G29	76
<b>ARTS CLEANERS INC</b> EPA ID: IND016238586	<b>326 CALIFORNIA ST</b>	<b>NE 1/8 - 1/4 (0.147 mi.)</b>	<b>H39</b>	<b>87</b>
<b>IND BELL TEL CO CUMM</b> EPA ID: INT190014134	<b>1000 5TH ST</b>	<b>NNE 1/8 - 1/4 (0.241 mi.)</b>	<b>K48</b>	<b>117</b>
<b>CUMMINS INCORPORATED</b> EPA ID: IND990849770	<b>500 CENTRAL AVE</b>	<b>NNE 1/8 - 1/4 (0.241 mi.)</b>	<b>K50</b>	<b>124</b>

### RI MANIFEST: Hazardous waste manifest information

A review of the RI MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there is 1 RI MANIFEST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ARTS CLEANERS INC</b> EPA Id: IND016238586 Manifest Document Number: 002660785SKS	<b>326 CALIFORNIA ST</b>	<b>NE 1/8 - 1/4 (0.147 mi.)</b>	<b>H39</b>	<b>87</b>

## EXECUTIVE SUMMARY

IN OISC: Restricted use pesticide dealers and pesticide & fertilizer applicators.

A review of the IN OISC list, as provided by EDR, and dated 09/18/2018 has revealed that there are 2 IN OISC sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BARTHOLOMEW COUNTY H	440 3RD ST STE 303	NW 1/8 - 1/4 (0.136 mi.)	35	83
Not reported	912 5TH ST	NNE 1/8 - 1/4 (0.237 mi.)	47	116

IN SCP: The goals for the State Cleanup Section are to mitigate risk to human health and the environment.

A review of the IN SCP list, as provided by EDR, and dated 08/29/2016 has revealed that there are 2 IN SCP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MILLER OIL OF INDIAN</b> Facility Id: 3983	<b>10 FRANKLIN ST</b>	<b>WSW 0 - 1/8 (0.087 mi.)</b>	<b>E26</b>	<b>71</b>
<b>ARTS CLEANERS INC</b> Facility Id: 853	<b>326 CALIFORNIA ST</b>	<b>NE 1/8 - 1/4 (0.147 mi.)</b>	<b>H39</b>	<b>87</b>

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INDIANA GAS/COLUMBUS	WEST STREET (PARK)	WNW 1/2 - 1 (0.624 mi.)	63	160

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past

## EXECUTIVE SUMMARY

sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PREMIER AG CO-OP INC	867 2ND ST	ENE 0 - 1/8 (0.028 mi.)	C17	53
TRIANGLE SERVICE STA	600-02 3RD ST	NW 0 - 1/8 (0.091 mi.)	G27	74
TAGGART RALPH	924 3RD ST	NE 0 - 1/8 (0.102 mi.)	F31	79
CRYSTAL FLASH	910 THIRD ST	NE 0 - 1/8 (0.106 mi.)	F33	81

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name

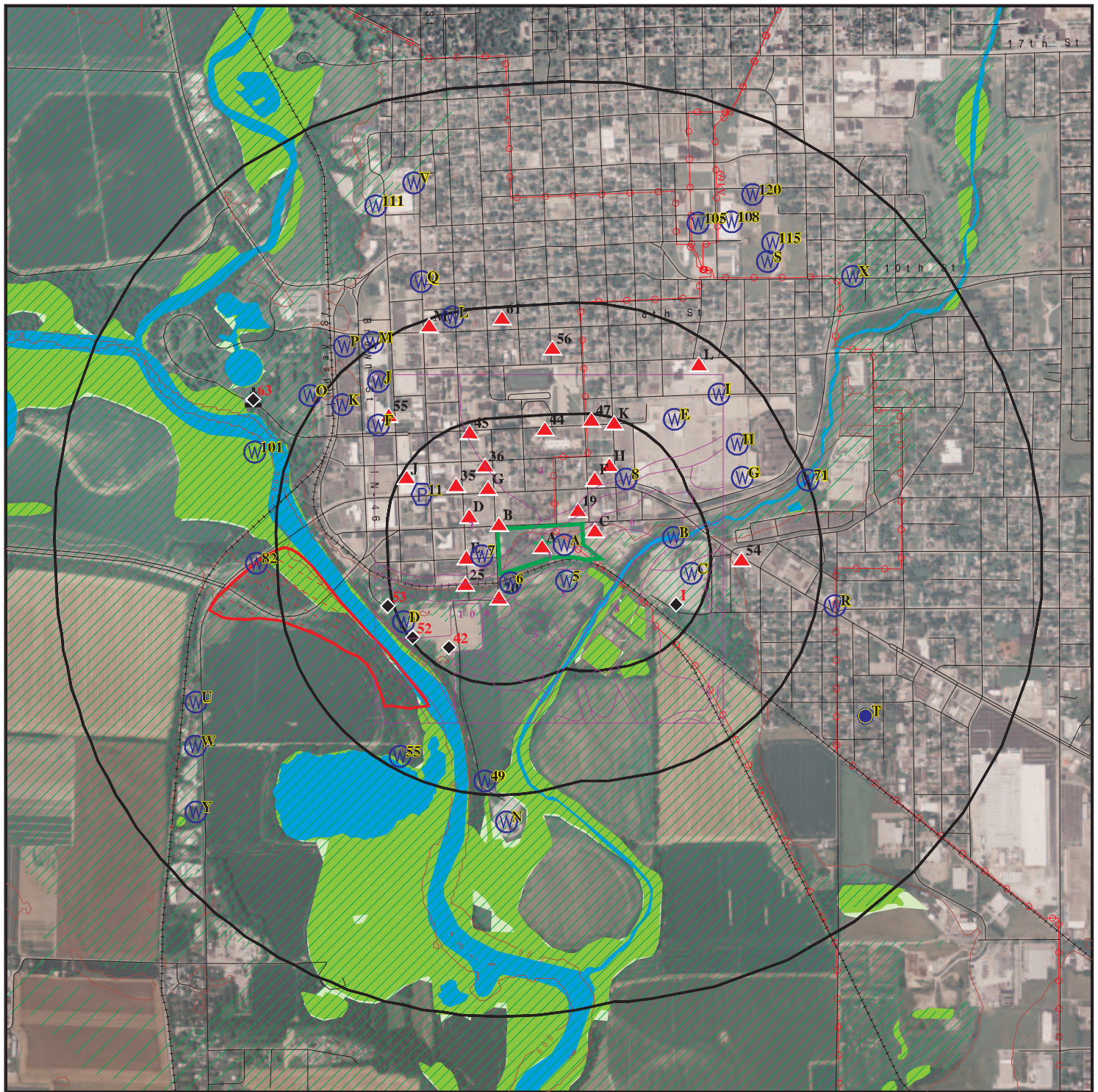
IRWIN UNION PARKING LOT

Database(s)

IN VCP



# OVERVIEW MAP - 05567149.2R



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

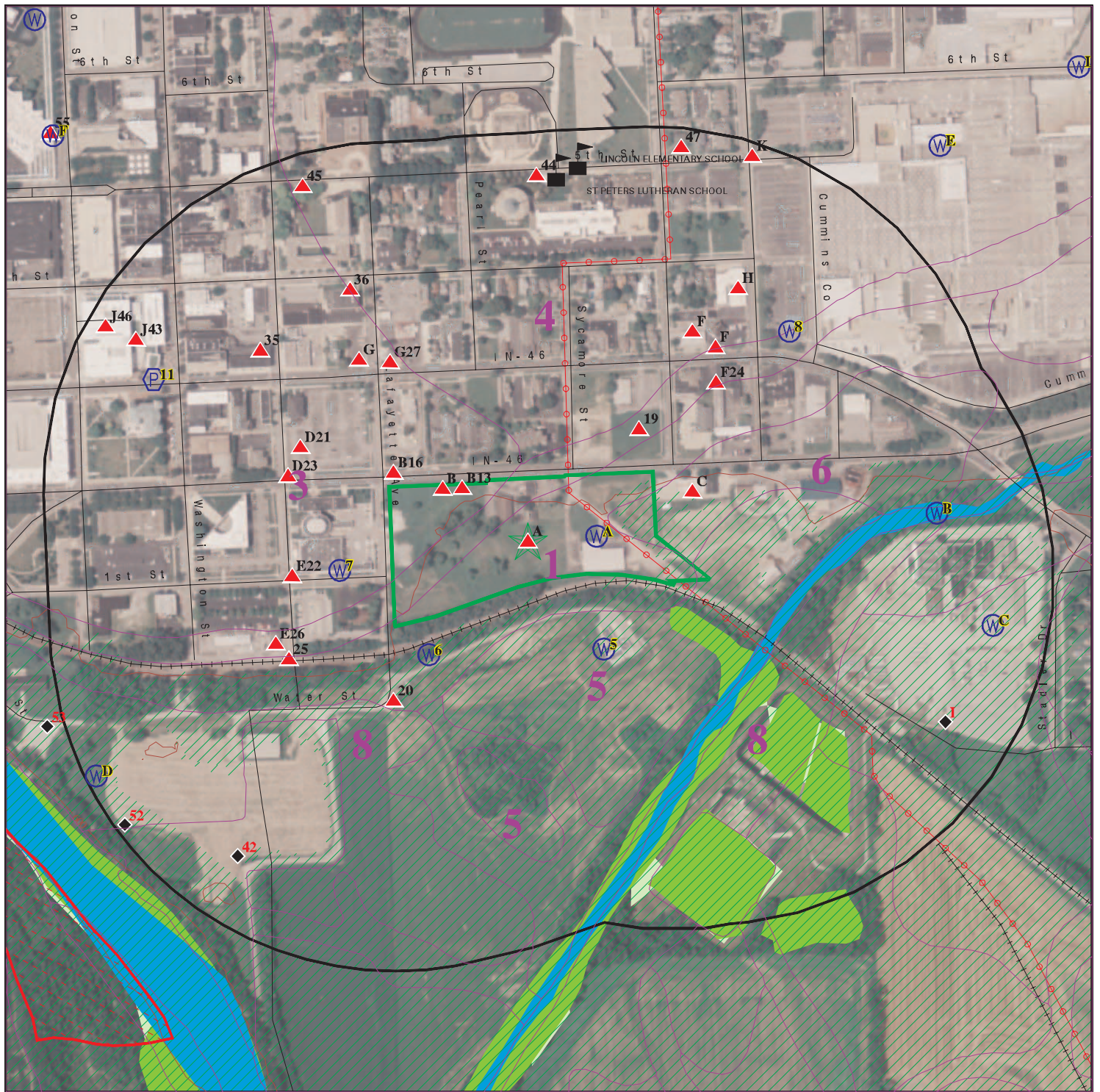
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: JT0460.710.0001  
 ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
 Columbus IN 47201  
 LAT/LONG: 39.199751 / 85.916329

CLIENT: August Mack Environmental, Inc  
 CONTACT: Elyse Baron  
 INQUIRY #: 05567149.2r  
 DATE: February 20, 2019 3:25 pm



# DETAIL MAP - 05567149.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

0 1/16 1/8 1/4 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: JT0460.710.0001  
ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
Columbus IN 47201  
LAT/LONG: 39.199751 / 85.916329

CLIENT: August Mack Environmental, Inc  
CONTACT: Elyse Baron  
INQUIRY #: 05567149.2r  
DATE: February 20, 2019 3:27 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	1	0	NR	1
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		1	0	0	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		1	1	NR	NR	NR	2
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	1	NR	NR	1
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
IN SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
IN OPEN DUMPS	0.500		0	0	0	NR	NR	0
IN SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
IN LUST	0.500	1	5	1	6	NR	NR	13
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
IN UST	0.250	2	7	7	NR	NR	NR	16
IN AST	0.125		0	NR	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
IN AUL	0.500		2	2	0	NR	NR	4
<b>State and tribal voluntary cleanup sites</b>								
IN VCP	0.500		1	1	0	NR	NR	2
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
IN BROWNFIELDS	0.500		3	1	2	NR	NR	6
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		2	0	0	NR	NR	2
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
IN SWTIRE	0.500		0	0	0	NR	NR	0
IN SWRCY	0.500		1	2	2	NR	NR	5
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
IN CDL	TP		NR	NR	NR	NR	NR	0
IN DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP	2	NR	NR	NR	NR	NR	0
IN SPILLS	TP		NR	NR	NR	NR	NR	2
IN SPILLS 90	TP		NR	NR	NR	NR	NR	0
IN SPILLS 80	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		2	1	NR	NR	NR	3
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	1	0	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP	1	NR	NR	NR	NR	NR	1
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP	1	NR	NR	NR	NR	NR	1
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	3	NR	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
IN AIRS	TP		NR	NR	NR	NR	NR	0
IN ASBESTOS	TP	2	NR	NR	NR	NR	NR	2
IN BULK	0.250		0	0	NR	NR	NR	0
IN CFO	TP		NR	NR	NR	NR	NR	0
IN COAL ASH	0.500		0	0	0	NR	NR	0
IN DRYCLEANERS	0.250		0	1	NR	NR	NR	1
IN Financial Assurance	TP		NR	NR	NR	NR	NR	0
IN IND WASTE	0.250		0	2	NR	NR	NR	2
IN MANIFEST	0.250		2	3	NR	NR	NR	5
RI MANIFEST	0.250		0	1	NR	NR	NR	1
IN NPDES	TP		NR	NR	NR	NR	NR	0
IN OISC	0.250		0	2	NR	NR	NR	2
IN SCP	0.500		1	1	0	NR	NR	2
IN TIER 2	TP		NR	NR	NR	NR	NR	0
IN UIC	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	1	NR	1
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125	1	4	NR	NR	NR	NR	5
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
IN RGA HWS	TP		NR	NR	NR	NR	NR	0
IN RGA LF	TP		NR	NR	NR	NR	NR	0
IN RGA LUST	TP	1	NR	NR	NR	NR	NR	1
- Totals --		14	32	27	14	1	0	88

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**  
**Target**  
**Property**  
**PREMIER AGRICULTURAL COOPERATIVE INCORPORATED**  
**801 2ND ST**  
**COLUMBUS, IN 47201**

**IN UST**  
**U004002347**  
**N/A**

**Site 1 of 11 in cluster A**

**Actual:**  
**619 ft.**

UST:  
Facility ID: 1848  
Owner Id: 1538  
Company Name: Premier Ag Coop Incorporated  
Mailing Address: 103 Community Dr P O Box 304  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Seymour, IN 47274

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 550  
Substance Desc: Gasoline  
Closed Date: 12/01/1988

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 550  
Substance Desc: Gasoline  
Closed Date: 12/01/1988

**A2**  
**Target**  
**Property**  
**801 2ND AVE**  
**COLUMBUS, IN 47201**

**IN SPILLS**  
**S109237461**  
**N/A**

**Site 2 of 11 in cluster A**

**Actual:**  
**619 ft.**

SPILL:  
Facility ID: 200806153  
Incident Date: 06/07/2008  
Report Date: 06/13/2008  
Material: unleaded gasoline  
Spill Source: Commercial  
Recovered Amount: Not reported  
Recovered Units: Not reported  
Spilled Amount: 400  
Spilled Units: G  
Contained: Not reported  
Water Affected: East Fork of White River  
Spill Type: Spill  
Area Affected: unknown  
Fish Killed: Not reported  
Water Supply Affected: Not reported  
Public Intake: N  
Incident Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A3**  
**Target**  
**Property**

**ROBO-WASH OF INDIANA INC**  
**711 E 2ND ST**  
**COLUMBUS, IN 47201**

**EDR Hist Auto**   **1022162993**  
**N/A**

**Site 3 of 11 in cluster A**

**Actual:**  
**619 ft.**

EDR Hist Auto

Year:	Name:	Type:
1969	ROBO-WASH OF INDIANA INC	Gasoline Service Stations
1970	ROBO-WASH OF INDIANA INC	Gasoline Service Stations

**A4**  
**Target**  
**Property**

**BARTHOLOMEW COUNTY REMC**  
**801 SECOND ST**  
**COLUMBUS, IN 47201**

**FINDS**   **1004496749**  
**N/A**

**Site 4 of 11 in cluster A**

**Actual:**  
**619 ft.**

FINDS:

Registry ID:                      110011883747

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**A5**  
**Target**  
**Property**

**BOBS CAR WASH**  
**711 2ND ST**  
**COLUMBUS, IN 47201**

**FINDS**   **1004499613**  
**N/A**

**Site 5 of 11 in cluster A**

**Actual:**  
**619 ft.**

FINDS:

Registry ID:                      110012127643

Environmental Interest/Information System

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOBS CAR WASH (Continued)**

**1004499613**

data exchange over the Network Node.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access  
additional FINDS: detail in the EDR Site Report.

**A6  
Target  
Property**

**BARTHOLOMEW COUNTY R.E.M.C.  
801 SECOND ST  
COLUMBUS, IN 47201**

**FTTS  
HIST FTTS**

**1007269897  
N/A**

**Site 6 of 11 in cluster A**

**Actual:  
619 ft.**

**FTTS INSP:**

Inspection Number: 19910827RV006 1  
Region: 05  
Inspection Date: 08/27/91  
Inspector: LEWIN  
Violation occurred: No  
Investigation Type: Section 6 PCB SEE Conducted  
Investigation Reason: Neutral Scheme, Region  
Legislation Code: TSCA  
Facility Function: User

**HIST FTTS INSP:**

Inspection Number: 19910827RV006 1  
Region: 05  
Inspection Date: Not reported  
Inspector: LEWIN  
Violation occurred: No  
Investigation Type: Section 6 PCB SEE Conducted  
Investigation Reason: Neutral Scheme, Region  
Legislation Code: TSCA  
Facility Function: User

**A7  
Target  
Property**

**BOB'S CAR WASH  
711 2ND ST  
COLUMBUS, IN**

**IN RGA LUST**

**S116000588  
N/A**

**Site 7 of 11 in cluster A**

**Actual:  
619 ft.**

**RGA LUST:**

2012	BOB'S CAR WASH	711 2ND ST
2011	BOB'S CAR WASH	711 2ND ST
2010	BOB'S CAR WASH	711 2ND ST
2009	BOB'S CAR WASH	711 2ND ST
2008	BOB'S CAR WASH	711 2ND ST
2007	BOB'S CAR WASH	711 2ND ST
2006	BOB'S CAR WASH	711 2ND ST
2005	BOB'S CAR WASH	711 2ND ST
2004	BOB'S CAR WASH	711 2ND ST
2003	BOB'S CAR WASH	711 2ND ST
2002	BOB'S CAR WASH	711 2ND ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOB'S CAR WASH (Continued)**

**S116000588**

2001 BOB'S CAR WASH 711 2ND ST  
2000 BOB'S CAR WASH 711 2ND ST

**A8**  
**Target** **COLUMBUS INDOOR SPORTS COMPLEX**  
**Property** **701-703 2ND ST**  
**COLUMBUS, IN 47201**

**FINDS** **1016807314**  
**N/A**

**Site 8 of 11 in cluster A**

**Actual:**  
**619 ft.**

**FINDS:**

Registry ID: 110058601197

Environmental Interest/Information System  
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access  
additional FINDS: detail in the EDR Site Report.

**A9**  
**Target** **703 2ND ST**  
**Property** **COLUMBUS, IN**

**IN ASBESTOS** **S121170716**  
**N/A**

**Site 9 of 11 in cluster A**

**Actual:**  
**619 ft.**

**ASBESTOS:**

Notification Number: 43641  
Removal Name: City of Columbus Dept of Public Works  
Demolition Name: City of Columbus Dept of Public Works  
Notice Type: Original  
Owner: City of Columbus  
Demolition Renovation Postmark: Demolition  
Fax Date: 21-AUG-17  
Start Date: 11-AUG-17  
End Date: 31-AUG-17  
Year: Not reported  
Inspection Date: Not reported  
Inspector: Not reported  
Warning Date: Not reported

**A10**  
**Target** **801 2ND ST**  
**Property** **COLUMBUS, IN 47201**

**IN SPILLS** **S105100489**  
**N/A**

**Site 10 of 11 in cluster A**

**Actual:**  
**619 ft.**

**SPILL:**

Facility ID: 199307206  
Incident Date: 07/21/1993  
Report Date: 07/21/1993  
Material: Non Pcb Transformer Oil  
Spill Source: Commercial  
Recovered Amount: G  
Recovered Units: 1  
Spilled Amount: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105100489

Spilled Units: G  
Contained: Y  
Water Affected: None  
Spill Type: Spill  
Area Affected: 5 Sq Ft  
Fish Killed: 0  
Water Supply Affected: Not reported  
Public Intake: N  
Incident Status: Not reported

A11  
Target BOBS CAR WASH  
Property 711 2ND ST  
COLUMBUS, IN 47201

IN LUST U001081755  
IN UST N/A  
IN ASBESTOS

Site 11 of 11 in cluster A

Actual:  
619 ft.

LUST:  
Facility ID: 14812  
Incident Number: 199207532  
Description: Discontinued (active)  
Priority: Low

UST:  
Facility ID: 14812  
Owner Id: 909  
Company Name: Custom Brushed Inc  
Mailing Address: 711 2nd St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 8000  
Substance Desc: Diesel  
Closed Date: 07/01/1992

Tank Number: 2  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: Not reported  
Substance Desc: Diesel  
Closed Date: 07/01/1992

ASBESTOS:  
Notification Number: 43639  
Removal Name: City of Columbus Dept of Public Works  
Demolition Name: City of Columbus Dept of Public Works  
Notice Type: Original  
Owner: City of Columbus  
Demolition Renovation Postmark: Demolition  
Fax Date: 21-AUG-17  
Start Date: 11-AUG-17  
End Date: 30-AUG-17  
Year: Not reported  
Inspection Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOBS CAR WASH (Continued)**

**U001081755**

Inspector: Not reported  
Warning Date: Not reported  
  
Notification Number: 43640  
Removal Name: City of Columbus Dept of Public Works  
Demolition Name: City of Columbus Dept of Public Works  
Notice Type: Original  
Owner: City of Columbus  
Demolition Renovation Postmark: Demolition  
Fax Date: 21-AUG-17  
Start Date: 11-AUG-17  
End Date: 31-AUG-17  
Year: Not reported  
Inspection Date: Not reported  
Inspector: Not reported  
Warning Date: Not reported

**NPL  
Region  
SW  
1/4-1/2  
1628 ft.**

**COLUMBUS OLD MUNICIPAL LANDFILL #1  
3RD ST BRIDGE AT WHITE RIVER  
COLUMBUS, IN 47201**

**Delisted NPL 1000426165  
SEMS IND980607626  
US ENG CONTROLS  
ROD  
ICIS  
FINDS  
ECHO**

Delisted NPL:  
EPA ID: IND980607626  
Site ID: 501673  
EPA Region: 5  
Federal: No  
Deleted Date: 2014-01-24 00:00:00  
Latitude: 39.197400000000002  
Longitude: -85.926000000000002

Category Details:  
NPL Status: Currently on the Final NPL  
Category Description: Depth To Aquifer-> 10 And <= 25 Feet  
Category Value: 12  
  
NPL Status: Currently on the Final NPL  
Category Description: Distance To Nearest Population-0 Miles (On Site)  
Category Value: 0

Site Details:  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
Site Status: Final  
Site Zip: 47201  
Site City: COLUMBUS  
Site State: IN  
Federal Site: No  
Site County: BARTHOLOMEW  
EPA Region: 05  
Date Proposed: 09/18/85  
Date Deleted: Not reported  
Date Finalized: 06/10/86

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

Substance Details:

NPL Status: Currently on the Final NPL  
Substance ID: Not reported  
Substance: Not reported  
CAS #: Not reported  
Pathway: Not reported  
Scoring: Not reported

NPL Status: Currently on the Final NPL  
Substance ID: A020  
Substance: CHROMIUM AND COMPOUNDS  
CAS #: Not reported  
Pathway: GROUND WATER PATHWAY  
Scoring: 3

NPL Status: Currently on the Final NPL  
Substance ID: A020  
Substance: CHROMIUM AND COMPOUNDS  
CAS #: Not reported  
Pathway: SURFACE WATER PATHWAY  
Scoring: 3

NPL Status: Currently on the Final NPL  
Substance ID: D008  
Substance: LEAD (PB)  
CAS #: 7439-92-1  
Pathway: GROUND WATER PATHWAY  
Scoring: 3

NPL Status: Currently on the Final NPL  
Substance ID: D008  
Substance: LEAD (PB)  
CAS #: 7439-92-1  
Pathway: SURFACE WATER PATHWAY  
Scoring: 3

Summary Details:

Conditions at proposal September 18, 1985): The Columbus Old Municipal Landfill 1 covers 10 to 12 acres on the East Fork of the White River in Columbus, Bartholomew County, Indiana. From the early 1950s through the late 1960s, the city operated the landfill, accepting municipal waste and about 3.5 million gallons of industrial wastes. It had no permits. According to a waste generator, Cummins Engine Co., the industrial wastes included solvents, acids, bases, paints, PCBs, and heavy metals. After closing the old landfill, Columbus opened a new landfill. The old landfill is unlined and in permeable soils. It is covered with a permeable layer of sand and gravel on which grass has grown. Wastes were deposited on the surface, and the site forms a low barrier between the surrounding farmlands and the river. Ground water is contaminated with lead and chromium, according to tests conducted by EPA in August 1985. The geology and location of the site are such that area surface water is threatened. About 31,000 people depend on wells within 3 miles of the site as a source of drinking water. The White River, 100 feet from the site, is a prime fishing stream. The land is privately owned and is now leased to an individual who operates waste oil storage tanks on the site. Status June 10, 1986): EPA is considering various alternatives for the site.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

Site Status Details:

NPL Status: Final  
Proposed Date: 09/18/1985  
Final Date: 06/10/1986  
Deleted Date: Not reported

Narratives Details:

NPL Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
City: COLUMBUS  
State: IN

SEMS:

Site ID: 0501673  
EPA ID: IND980607626  
Cong District: 6  
FIPS Code: 18005  
Latitude: +39.197400  
Longitude: -85.926000  
FF: N  
NPL: Deleted from the Final NPL  
Non NPL Status: Not reported

SEMS Detail:

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: FE  
Action Name: 5 YEAR  
SEQ: 3  
Start Date: 2010-05-18 05:00:00  
Finish Date: 5/18/2010  
Qual: Not reported  
Current Action Lead: EPA Perf In-Hse

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: SI  
Action Name: SI  
SEQ: 1  
Start Date: 1984-02-01 05:00:00  
Finish Date: 2/1/1984  
Qual: H  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0501673

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: RS  
Action Name: RV ASSESS  
SEQ: 2  
Start Date: 1991-09-28 04:00:00  
Finish Date: 8/30/1992  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: RS  
Action Name: RV ASSESS  
SEQ: 1  
Start Date: 1990-05-31 04:00:00  
Finish Date: 9/21/1990  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 01  
Action Code: RO  
Action Name: ROD  
SEQ: 1  
Start Date: 1992-03-31 05:00:00  
Finish Date: 3/31/1992  
Qual: R  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: CR  
Action Name: CI  
SEQ: 1  
Start Date: 1987-09-15 04:00:00  
Finish Date: Not reported  
Qual: Not reported  
Current Action Lead: EPA Perf

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: CM  
Action Name: PCOR  
SEQ: 1  
Start Date: 1994-09-15 04:00:00  
Finish Date: 9/15/1994  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: NP  
Action Name: PROPOSED  
SEQ: 1  
Start Date: 1985-09-18 05:00:00  
Finish Date: 9/18/1985  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: NF  
Action Name: NPL FINL  
SEQ: 1  
Start Date: 1986-06-10 04:00:00  
Finish Date: 6/10/1986  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: HR  
Action Name: HAZRANK  
SEQ: 1  
Start Date: 1984-02-10 05:00:00  
Finish Date: 2/10/1984



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	01
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1991-08-06 04:00:00
Finish Date:	Not reported
Qual:	E
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	00
Action Code:	CQ
Action Name:	CLSOUT R
SEQ:	1
Start Date:	2013-04-30 04:00:00
Finish Date:	4/30/2013
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	4
Start Date:	2015-03-04 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	00
Action Code:	CR
Action Name:	CI

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

SEQ:	2
Start Date:	2015-03-04 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-08-01 04:00:00
Finish Date:	8/1/1981
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	00
Action Code:	ND
Action Name:	DELETION
SEQ:	1
Start Date:	2014-01-24 05:00:00
Finish Date:	1/24/2014
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	1993-04-01 05:00:00
Finish Date:	10/19/1993
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	1
Start Date:	1993-10-22 04:00:00
Finish Date:	9/15/1994
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	1994-09-15 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	St Ovrsght
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	01
Action Code:	JF
Action Name:	ECO RISK
SEQ:	1
Start Date:	1990-06-04 04:00:00
Finish Date:	6/4/1990
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	05
Site ID:	0501673
EPA ID:	IND980607626
Site Name:	COLUMBUS OLD MUNICIPAL LANDFILL #1
NPL:	D
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1
Start Date:	1987-09-15 04:00:00
Finish Date:	3/31/1992
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	05
Site ID:	0501673
EPA ID:	IND980607626

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 01  
Action Code: ED  
Action Name: R/H ASMT  
SEQ: 1  
Start Date: 1990-06-04 04:00:00  
Finish Date: 6/4/1990  
Qual: Not reported  
Current Action Lead: EPA Ovrsght

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: 1983-05-01 04:00:00  
Finish Date: 5/1/1983  
Qual: H  
Current Action Lead: St Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: FE  
Action Name: 5 YEAR  
SEQ: 4  
Start Date: 2014-11-17 05:00:00  
Finish Date: 5/6/2015  
Qual: Not reported  
Current Action Lead: St Perf

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: FE  
Action Name: 5 YEAR  
SEQ: 2  
Start Date: 2005-09-23 04:00:00  
Finish Date: 9/23/2005  
Qual: Not reported  
Current Action Lead: St Perf

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

Region: 05  
Site ID: 0501673  
EPA ID: IND980607626  
Site Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
NPL: D  
FF: N  
OU: 00  
Action Code: FE  
Action Name: 5 YEAR  
SEQ: 1  
Start Date: 2000-09-22 04:00:00  
Finish Date: 9/22/2000  
Qual: Not reported  
Current Action Lead: St Perf

**US ENG CONTROLS:**

EPA ID: IND980607626  
Site ID: 0501673  
Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
Address: 3RD ST BRIDGE AT WHITE RIVER  
COLUMBUS, IN 47201  
EPA Region: 05  
County: BARTHOLOMEW  
Event Code: Not reported  
Actual Date: 03/31/1992  
Contact Name: Not reported  
Contact Phone and Ext: Not reported  
Event Code Description: Not reported

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 03/31/1992  
Operable Unit: 01  
Contaminated Media : Solid Waste  
Engineering Control: Monitoring  
Contact Name: Not reported  
Contact Phone and Ext: Not reported  
Event Code Description: Not reported

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 03/31/1992  
Operable Unit: 01  
Contaminated Media : Solid Waste  
Engineering Control: No Action  
Contact Name: Not reported  
Contact Phone and Ext: Not reported  
Event Code Description: Not reported

**ROD:**

Full-text of USEPA Record of Decision(s) is available from EDR.

**ICIS:**

Enforcement Action ID: 05-1987-0203

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

FRS ID: 110009284675  
Action Name: OLD CITY LANDFILL - CITY DUMP #1  
Facility Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
Facility Address: 3RD ST BRIDGE AT WHITE RIVER  
COLUMBUS, IN 47201  
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS  
Facility County: BARTHOLOMEW  
Program System Acronym: ICIS  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: 122/104  
Facility SIC Code: Not reported  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 39.1974  
Longitude in Decimal Degrees: -85.926  
Permit Type Desc: Not reported  
Program System Acronym: 19088  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Facility Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
Address: 3RD ST BRIDGE AT WHITE RIVER  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
Address: 3RD ST BRIDGE AT WHITE RIVER  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
Address: 3RD ST BRIDGE AT WHITE RIVER  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: COLUMBUS OLD MUNICIPAL LANDFILL #1  
Address: 3RD ST BRIDGE AT WHITE RIVER  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

**FINDS:**

Registry ID: 110009284675

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS OLD MUNICIPAL LANDFILL #1 (Continued)**

**1000426165**

program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

**SUPERFUND NPL**

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000426165  
Registry ID: 110009284675  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110009284675>

**B12**

**FORMER COLUMBUS WOOD TREATING PLANT**

**US BROWNFIELDS**

**1016403452**

**< 1/8  
1 ft.**

**705 2ND STREET  
COLUMBUS, IN 47621**

**FINDS**

**N/A**

**Site 1 of 5 in cluster B**

**Relative:  
Higher**

**US BROWNFIELDS:**

**Actual:  
623 ft.**

Property Name: FORMER COLUMBUS WOOD TREATING PLANT  
Recipient Name: Indiana Finance Authority  
Grant Type: BCRLF  
Property Number: 19-95-25.12-4900  
Parcel size: 1.24  
Latitude: 39.2004139  
Longitude: -85.9175922  
HCM Label: Address Matching-House Number  
Map Scale: Not reported  
Point of Reference: Entrance Point of a Facility or Station  
Highlights: Not reported  
Datum: North American Datum of 1983  
Acres Property ID: 161722  
IC Data Access: Not reported  
Start Date: 04/09/2012 00:00:00  
Redev Completion Date: Not reported  
Completed Date: Not reported  
Acres Cleaned Up: Not reported  
Cleanup Funding: 69567  
Cleanup Funding Source: Cost Share

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Assessment Funding:	2500
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission
Cleanup Funding Entity:	Indiana Finance Authority
Grant Type:	Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	12/01/2011 00:00:00
Ownership Entity:	Government
Completion Date:	12/12/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	785699
Cleanup Funding Source:	Brownfields RLF Grant Funds Loaned
Assessment Funding:	Not reported
Assessment Funding Source:	Not reported
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Not reported
Cleanup Funding Entity:	EPA
Grant Type:	Petroleum
Accomplishment Type:	Not reported
Accomplishment Count:	0
Cooperative Agreement Number:	00E96801
Start Date:	Not reported
Ownership Entity:	Government
Completion Date:	Not reported
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contaminants found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	300000
Cleanup Funding Source:	Other Federal Funding
Assessment Funding:	75000
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Cleanup Funding Entity:	HUD
Grant Type:	Petroleum
Accomplishment Type:	Cleanup Planning
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	09/23/2011 00:00:00
Ownership Entity:	Government
Completion Date:	12/31/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	32893
Cleanup Funding Source:	Brownfields RLF Program Income Loaned
Assessment Funding:	Not reported
Assessment Funding Source:	Not reported
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Not reported
Cleanup Funding Entity:	Indiana Finance Authority
Grant Type:	Petroleum
Accomplishment Type:	Not reported
Accomplishment Count:	0
Cooperative Agreement Number:	00E96801
Start Date:	Not reported
Ownership Entity:	Government
Completion Date:	Not reported
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	600000
Cleanup Funding Source:	State/Tribal Funding (non-section 128(a))
Assessment Funding:	75000
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission
Cleanup Funding Entity:	IFA SRF
Grant Type:	Petroleum
Accomplishment Type:	Cleanup Planning
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	09/23/2011 00:00:00
Ownership Entity:	Government

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Completion Date:	12/31/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	300000
Cleanup Funding Source:	Other Federal Funding
Assessment Funding:	35000
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission
Cleanup Funding Entity:	HUD
Grant Type:	Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	08/02/2011 00:00:00
Ownership Entity:	Government
Completion Date:	09/22/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contaminants found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	311839
Cleanup Funding Source:	Brownfields RLF Grant Funds Loaned
Assessment Funding:	35000
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission
Cleanup Funding Entity:	EPA
Grant Type:	Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	08/02/2011 00:00:00
Ownership Entity:	Government
Completion Date:	09/22/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported



Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	300000
Cleanup Funding Source:	Other Federal Funding
Assessment Funding:	2500
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission
Cleanup Funding Entity:	HUD
Grant Type:	Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	12/01/2011 00:00:00
Ownership Entity:	Government
Completion Date:	12/12/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225

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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	69567
Cleanup Funding Source:	Cost Share
Assessment Funding:	75000
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission
Cleanup Funding Entity:	Indiana Finance Authority
Grant Type:	Petroleum
Accomplishment Type:	Cleanup Planning
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	09/23/2011 00:00:00
Ownership Entity:	Government
Completion Date:	12/31/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contaminants found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%
Property Name:	FORMER COLUMBUS WOOD TREATING PLANT
Recipient Name:	Indiana Finance Authority
Grant Type:	BCRLF
Property Number:	19-95-25.12-4900
Parcel size:	1.24
Latitude:	39.2004139
Longitude:	-85.9175922
HCM Label:	Address Matching-House Number
Map Scale:	Not reported
Point of Reference:	Entrance Point of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	161722
IC Data Access:	Not reported
Start Date:	04/09/2012 00:00:00
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	600000
Cleanup Funding Source:	State/Tribal Funding (non-section 128(a))
Assessment Funding:	35000
Assessment Funding Source:	Local Funding
Redevelopment Funding:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Redev. Commission
Cleanup Funding Entity:	IFA SRF
Grant Type:	Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	00E48101
Start Date:	08/02/2011 00:00:00
Ownership Entity:	Government
Completion Date:	09/22/2011 00:00:00
Current Owner:	Columbus Redevelopment Commission
Did Owner Change:	Y
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Y
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	N
State/tribal program date:	01/01/2010 00:00:00
State/tribal program ID:	4100901
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Unemployed Percent: 2.6%

[Click this hyperlink](#) while viewing on your computer to access  
4 additional US BROWNFIELDS: record(s) in the EDR Site Report.

Property Name: FORMER COLUMBUS WOOD TREATING PLANT  
Recipient Name: Indiana Finance Authority  
Grant Type: BCRLF  
Property Number: 19-95-25.12-4900  
Parcel size: 1.24  
Latitude: 39.2004139  
Longitude: -85.9175922  
HCM Label: Address Matching-House Number  
Map Scale: Not reported  
Point of Reference: Entrance Point of a Facility or Station  
Highlights: Not reported  
Datum: North American Datum of 1983  
Acres Property ID: 161722  
IC Data Access: Not reported  
Start Date: 04/09/2012 00:00:00  
Redev Completion Date: Not reported  
Completed Date: Not reported  
Acres Cleaned Up: Not reported  
Cleanup Funding: 69567  
Cleanup Funding Source: Cost Share  
Assessment Funding: 35000  
Assessment Funding Source: Local Funding  
Redevelopment Funding: Not reported  
Redev. Funding Source: Not reported  
Redev. Funding Entity Name: Not reported  
Redevelopment Start Date: Not reported  
Assessment Funding Entity: Redev. Commission  
Cleanup Funding Entity: Indiana Finance Authority  
Grant Type: Petroleum  
Accomplishment Type: Phase II Environmental Assessment  
Accomplishment Count: 0  
Cooperative Agreement Number: 00E48101  
Start Date: 08/02/2011 00:00:00  
Ownership Entity: Government  
Completion Date: 09/22/2011 00:00:00  
Current Owner: Columbus Redevelopment Commission  
Did Owner Change: Y  
Cleanup Required: Y  
Video Available: N  
Photo Available: Y  
Institutional Controls Required: Y  
IC Category Proprietary Controls: Y  
IC Cat. Info. Devices: Y  
IC Cat. Gov. Controls: Not reported  
IC Cat. Enforcement Permit Tools: Not reported  
IC in place date: Not reported  
IC in place: N  
State/tribal program date: 01/01/2010 00:00:00  
State/tribal program ID: 4100901  
State/tribal NFA date: Not reported  
Air contaminated: Not reported  
Air cleaned: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contaminants found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.24
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.24
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING PLANT (Continued)**

**1016403452**

Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Miller & Co., 1986; City of Columbus, 1984; Bren Ent. 1983; Rex E Breeden, 1983; The Brex Corp 1982; and Southwest Forest Industries, 1976, unknown.
Below Poverty Number:	225
Below Poverty Percent:	19.8%
Meidan Income:	6555
Meidan Income Number:	435
Meidan Income Percent:	38.3%
Vacant Housing Number:	126
Vacant Housing Percent:	21.2%
Unemployed Number:	30
Unemployed Percent:	2.6%

[Click this hyperlink](#) while viewing on your computer to access  
4 additional US BROWNFIELDS: record(s) in the EDR Site Report.

**FINDS:**

Registry ID: 110055376640

**Environmental Interest/Information System**

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)  
is an federal online database for Brownfields Grantees to  
electronically submit data directly to EPA.

Registry ID: 110058855109

**Environmental Interest/Information System**

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access  
additional FINDS: detail in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

**B13** **LOT 2B** **IN BROWNFIELDS** **S110325484**  
**701 2ND ST**  
**< 1/8** **COLUMBUS, IN 47201** **N/A**  
**1 ft.**

**Site 2 of 5 in cluster B**

**Relative:** IN BROWNFIELD:  
**Higher** Facility ID: 4080515  
**Actual:** Project Manager: Lynette Schrowe  
**622 ft.** AI Id: 6272  
Financial Assistance: Not reported  
Other Assistance: Comfort Letter 10/14/2009  
ERC Not Required: Yes  
Land Use Restriction: No residential, agricultural, wells; excavation limitations  
Recordation Date or Letter: Not Recorded

**B14** **COLUMBUS WOOD TREATING** **IN BROWNFIELDS** **S109844742**  
**705 2ND ST**  
**< 1/8** **COLUMBUS, IN 47201** **N/A**  
**1 ft.**

**Site 3 of 5 in cluster B**

**Relative:** IN BROWNFIELD:  
**Higher** Facility ID: 4100901  
**Actual:** Project Manager: Lynette Schrowe  
**623 ft.** AI Id: 7148  
Financial Assistance: RLF Loan 12/29/11  
Other Assistance: Petroleum Determination Letter 10/19/2011  
ERC Not Required: NR  
Land Use Restriction: Not reported  
Recordation Date or Letter: Not reported

**B15** **COLUMBUS WOOD TREATING PLANT** **IN VCP** **S108646295**  
**705 2ND STREET**  
**< 1/8** **COLUMBUS, IN 47201** **N/A**  
**1 ft.**

**Site 4 of 5 in cluster B**

**Relative:** VCP:  
**Higher** Status: Inactive  
**Actual:** VRP Id Number: 6060703  
**623 ft.** Applicant Name: Not reported  
LandUse Restrictions/Institutional Controls: Not reported  
Project Manager: Holland  
Covenant Not To Sue Date: Not reported  
Certificate of Completion Date: Not reported  
New Coding Number: V60JJ  
App# Date: 07/26/2006  
App# Acceptance: Not reported  
VRA executed: 12/08/2006  
RWP Received: Not reported  
RWP Approved: Not reported  
Comp Date: Not reported  
Comments: Not reported  
Contamination: Not reported  
Media: Not reported  
Project Description: Not reported  
Past Actions: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS WOOD TREATING PLANT (Continued)**

**S108646295**

Issues and Impacts: Not reported  
Future Actions: Not reported  
Additional Comments: Not reported

**B16**  
**WNW**  
**< 1/8**  
**0.011 mi.**  
**58 ft.**  
**SECOND STREET SAVE 117**  
**610 2ND ST**  
**COLUMBUS, IN 47201**  
**Site 5 of 5 in cluster B**

**IN UST** **U003093792**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**625 ft.**

UST:  
Facility ID: 7469  
Owner Id: 21305  
Company Name: Toms Commercials LLC  
Mailing Address: 2300 Washington St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 472014185  
  
Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: 09/01/1972  
Tank Capacity: 12000  
Substance Desc: Gasoline  
Closed Date: 05/26/2005  
  
Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: 09/01/1972  
Tank Capacity: 12000  
Substance Desc: Gasoline  
Closed Date: 05/26/2005  
  
Tank Number: 3  
**Tank Status: Permanently Out of Service**  
Install Date: 09/01/1972  
Tank Capacity: 12000  
Substance Desc: Gasoline  
Closed Date: 05/26/2005

**C17**  
**ENE**  
**< 1/8**  
**0.028 mi.**  
**146 ft.**  
**PREMIER AG CO-OP INC**  
**867 2ND ST**  
**COLUMBUS, IN 47201**  
**Site 1 of 2 in cluster C**

**EDR Hist Auto** **1020976912**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**619 ft.**

EDR Hist Auto

Year:	Name:	Type:
1993	PREMIER AG CO-OP INC	Gasoline Service Stations, NEC
1994	PREMIER AG CO-OP INC	Gasoline Service Stations, NEC
1995	PREMIER AG CO-OP INC	Gasoline Service Stations, NEC
1996	PREMIER AG CO-OP INC	Gasoline Service Stations, NEC
1997	PREMIER AG CO-OP INC	Gasoline Service Stations, NEC
1998	PREMIER AG CO-OP INC	Gasoline Service Stations, NEC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C18**  
**ENE**  
**< 1/8**  
**0.028 mi.**  
**146 ft.**

**TOMS FOOD & FUEL**  
**867 E 2ND ST**  
**COLUMBUS, IN 47201**

**Site 2 of 2 in cluster C**

**IN UST**    **U003142154**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**619 ft.**

UST:

Facility ID: 18438  
Owner Id: 47419  
Company Name: Patel 867 Realty LLC  
Mailing Address: 1447 E Main St Ste A  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Brownsburg, IN 46112

Tank Number: 1  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Gasoline  
Closed Date: Not reported

Tank Number: 10  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 2  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 10000  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 3  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 6000  
Substance Desc: Kerosene  
Closed Date: Not reported

Tank Number: 4  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Gasoline  
Closed Date: Not reported

Tank Number: 5  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Gasoline

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TOMS FOOD & FUEL (Continued)**

**U003142154**

Closed Date: Not reported

Tank Number: 6  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 7  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 8  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 9  
**Tank Status:** **Currently in use**  
Install Date: 08/13/1992  
Tank Capacity: 20000  
Substance Desc: Diesel  
Closed Date: Not reported

19  
NE  
< 1/8  
0.032 mi.  
169 ft.

**PAPA'S DELI**  
**819 3RD STREET**  
**COLUMBUS, IN 47201**

**US BROWNFIELDS** **1024247261**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**624 ft.**

**US BROWNFIELDS:**

Property Name: PAPA'S DELI  
Recipient Name: City of Columbus  
Grant Type: Assessment  
Property Number: 03-95-24-440-006.400-005; 03-95-25-110-000.700-005  
Parcel size: 1.39  
Latitude: 39.2009301  
Longitude: -85.91482489999999  
HCM Label: Not reported  
Map Scale: Not reported  
Point of Reference: Not reported  
Highlights: Not reported  
Datum: Not reported  
Acres Property ID: 235682  
IC Data Access: Not reported  
Start Date: Not reported  
Redev Completion Date: Not reported  
Completed Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAPA'S DELI (Continued)**

**1024247261**

Acres Cleaned Up:	Not reported
Cleanup Funding:	Not reported
Cleanup Funding Source:	Not reported
Assessment Funding:	29650
Assessment Funding Source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	Not reported
Grant Type:	Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	00E01534
Start Date:	02/01/2018 00:00:00
Ownership Entity:	Private
Completion Date:	03/22/2018 00:00:00
Current Owner:	Not reported
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Not reported
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contaminants found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAPA'S DELI (Continued)**

**1024247261**

Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	1.39
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.39
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Former railroad depot and bulk petroleum plant
Below Poverty Number:	297
Below Poverty Percent:	17.1%
Meidan Income:	1479
Meidan Income Number:	696



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAPA'S DELI (Continued)**

**1024247261**

Meidan Income Percent:	40.0%
Vacant Housing Number:	193
Vacant Housing Percent:	21.2%
Unemployed Number:	45
Unemployed Percent:	2.6%
Property Name:	PAPA'S DELI
Recipient Name:	City of Columbus
Grant Type:	Assessment
Property Number:	03-95-24-440-006.400-005; 03-95-25-110-000.700-005
Parcel size:	1.39
Latitude:	39.2009301
Longitude:	-85.91482489999999
HCM Label:	Not reported
Map Scale:	Not reported
Point of Reference:	Not reported
Highlights:	Not reported
Datum:	Not reported
Acres Property ID:	235682
IC Data Access:	Not reported
Start Date:	Not reported
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	Not reported
Cleanup Funding Source:	Not reported
Assessment Funding:	3500
Assessment Funding Source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	Not reported
Grant Type:	Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	1
Cooperative Agreement Number:	00E01534
Start Date:	11/13/2017 00:00:00
Ownership Entity:	Private
Completion Date:	12/07/2017 00:00:00
Current Owner:	Not reported
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Not reported
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAPA'S DELI (Continued)**

**1024247261**

Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	1.39
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.39
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAPA'S DELI (Continued)**

**1024247261**

Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Former railroad depot and bulk petroleum plant
Below Poverty Number:	297
Below Poverty Percent:	17.1%
Meidan Income:	1479
Meidan Income Number:	696
Meidan Income Percent:	40.0%
Vacant Housing Number:	193
Vacant Housing Percent:	21.2%
Unemployed Number:	45
Unemployed Percent:	2.6%
Property Name:	PAPA'S DELI
Recipient Name:	City of Columbus
Grant Type:	Assessment
Property Number:	03-95-24-440-006.400-005; 03-95-25-110-000.700-005
Parcel size:	1.39
Latitude:	39.2009301
Longitude:	-85.91482489999999
HCM Label:	Not reported
Map Scale:	Not reported
Point of Reference:	Not reported
Highlights:	Not reported
Datum:	Not reported
Acres Property ID:	235682
IC Data Access:	Not reported
Start Date:	Not reported
Redev Completion Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	Not reported
Cleanup Funding Source:	Not reported
Assessment Funding:	29850
Assessment Funding Source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAPA'S DELI (Continued)**

**1024247261**

Grant Type:	Petroleum
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	00E01534
Start Date:	03/30/2018 00:00:00
Ownership Entity:	Private
Completion Date:	Not reported
Current Owner:	Not reported
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Not reported
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controlled substance found:	Not reported
Controlled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Y
Other cleaned up:	Not reported
Other metals found:	Y
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Y
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAPA'S DELI (Continued)**

**1024247261**

Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	1.39
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	1.39
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Y
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Former railroad depot and bulk petroleum plant
Below Poverty Number:	297
Below Poverty Percent:	17.1%
Meidan Income:	1479
Meidan Income Number:	696
Meidan Income Percent:	40.0%
Vacant Housing Number:	193
Vacant Housing Percent:	21.2%
Unemployed Number:	45
Unemployed Percent:	2.6%

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

20  
SW  
< 1/8  
0.053 mi.  
281 ft.

**FORMER COLUMBUS WOOD TREATING SITE**  
**53 LAFAYETTE AVE**  
**COLUMBUS, IN 47201**

**RCRA-CESQG**  
**FINDS**  
**ECHO**

**1017786572**  
**INR000138354**

**Relative:**  
**Higher**

**Actual:**  
**619 ft.**

**RCRA-CESQG:**

Date form received by agency: 03/25/2015  
Facility name: FORMER COLUMBUS WOOD TREATING SITE  
Facility address: 53 LAFAYETTE AVE  
COLUMBUS, IN 47201  
EPA ID: INR000138354  
Mailing address: WASHINGTON ST  
COLUMBUS, IN 47201  
Contact: HEATHER POPE  
Contact address: WASHINGTON ST  
COLUMBUS, IN 47201  
Contact country: US  
Contact telephone: 812-376-2547  
Contact email: HPOPE@COLUMBUS.IN.GOV  
EPA Region: 05  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: COLUMBUS REDEVELOPMENT COMMISSION  
Owner/operator address: WASHINGTON ST  
COLUMBUS, IN 47201  
Owner/operator country: US  
Owner/operator telephone: 812-376-2547  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Municipal  
Owner/Operator Type: Owner  
Owner/Op start date: 04/19/2012  
Owner/Op end date: Not reported

Owner/operator name: COLUMBUS REDEVELOPMENT COMMISSION  
Owner/operator address: WASHINGTON ST  
COLUMBUS, IN 47201  
Owner/operator country: US  
Owner/operator telephone: 812-376-2547  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING SITE (Continued)**

**1017786572**

Legal status: Municipal  
Owner/Operator Type: Operator  
Owner/Op start date: 04/19/2012  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D037  
. Waste name: PENTRACHLOROPHENOL

. Waste code: F032  
. Waste name: WASTEWATERS, PROCESS RESIDUALS, PRESERVATIVE DRIPPAGE, AND SPENT FORMULATIONS FROM WOOD PRESERVING PROCESSES GENERATED AT PLANTS THAT CURRENTLY USE OR HAVE PREVIOUSLY USED CHLOROPHENOLIC FORMULATIONS (EXCEPT POTENTIALLY CROSS-CONTAMINATED WASTES THAT HAVE HAD THE F032 WASTE CODE DELETED IN ACCORDANCE WITH SECTION 261.35 OF THIS CHAPTER AND WHERE THE GENERATOR DOES NOT RESUME OR INITIATE USE OF CHLOROPHENOLIC FORMULATIONS). THIS LISTING DOES NOT INCLUDE K001 BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATER FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL. (NOTE: THE LISTING OF WASTEWATERS THAT HAVE NOT COME INTO CONTACT WITH PROCESS CONTAMINANTS IS STAYED ADMINISTRATIVELY. THE LISTING FOR PLANTS THAT HAVE PREVIOUSLY USED CHLOROPHENOLIC FORMULATIONS IS ADMINISTRATIVELY STAYED WHENEVER THESE WASTES ARE COVERED BY THE F034 OR F035 LISTINGS. THESE STAYS WILL REMAIN IN EFFECT UNTIL FURTHER ADMINISTRATIVE ACTION IS TAKEN.)

. Waste code: F034  
. Waste name: WASTEWATERS, PROCESS RESIDUALS, PRESERVATIVE DRIPPAGE, AND SPENT FORMULATIONS FROM WOOD PRESERVING PROCESS GENERATED AT PLANTS THAT USE CREOSOTE FORMULATIONS. THIS LISTING DOES NOT INCLUDE K001 BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATER FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL. (NOTE: THE LISTING OF WASTEWATERS THAT HAVE NOT COME INTO CONTACT WITH PROCESS CONTAMINANTS IS STAYED ADMINISTRATIVELY. THE STAY WILL REMAIN IN EFFECT UNTIL FURTHER ADMINISTRATIVE ACTION IS TAKEN.)

Violation Status: No violations found

**FINDS:**

Registry ID: 110064018959

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER COLUMBUS WOOD TREATING SITE (Continued)**

**1017786572**

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1017786572  
Registry ID: 110064018959  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110064018959>

**D21  
WNW  
< 1/8  
0.070 mi.  
372 ft.**

**GRAHAM TODD BUILDING  
215 FRANKLIN ST  
COLUMBUS, IN 47201**

**IN UST U000194423  
N/A**

**Site 1 of 2 in cluster D**

**Relative:  
Higher**

UST:

**Actual:  
628 ft.**

Facility ID: 15889  
Owner Id: 8046  
Company Name: Bartholomew County Commissioners  
Mailing Address: 440 3rd St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Used Oil  
Closed Date: 07/06/1989

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Other  
Closed Date: 07/06/1989

Tank Number: 3  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Other  
Closed Date: 07/06/1989



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

	Site	Database(s)	EPA ID Number
<b>E22</b> <b>West</b> <b>&lt; 1/8</b> <b>0.073 mi.</b> <b>383 ft.</b> <b>Relative:</b> <b>Higher</b> <b>Actual:</b> <b>625 ft.</b>	<b>COLUMBUS WOOD PRESERVING CO</b> <b>500 BLOCK OF 1ST ST</b> <b>COLUMBUS, IN 47201</b>  <b>Site 1 of 2 in cluster E</b>  SEMS Archive: Site ID: 0502096 EPA ID: IND981957046 Cong District: 02 FIPS Code: 18005 FF: N NPL: Not on the NPL Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information Latitude: +39.215000 Longitude: -085.910000  SEMS Archive Detail: Region: 05 Site ID: 0502096 EPA ID: IND981957046 Site Name: COLUMBUS WOOD PRESERVING CO NPL: N FF: N OU: 00 Action Code: VS Action Name: ARCH SITE SEQ: 1 Start Date: Not reported Finish Date: 1992-09-16 04:00:00 Qual: Not reported Current Action Lead: EPA Perf In-Hse  Region: 05 Site ID: 0502096 EPA ID: IND981957046 Site Name: COLUMBUS WOOD PRESERVING CO NPL: N FF: N OU: 00 Action Code: OO Action Name: SITE REASS SEQ: 1 Start Date: 2011-10-23 04:00:00 Finish Date: 2015-11-03 05:00:00 Qual: N Current Action Lead: EPA Perf  Region: 05 Site ID: 0502096 EPA ID: IND981957046 Site Name: COLUMBUS WOOD PRESERVING CO NPL: N FF: N OU: 00 Action Code: SI Action Name: SI SEQ: 1 Start Date: 1989-02-14 05:00:00 Finish Date: 1989-02-14 05:00:00	<b>SEMS-ARCHIVE</b> <b>IN BROWNFIELDS</b>	<b>1003870975</b> <b>IND981957046</b>

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS WOOD PRESERVING CO (Continued)**

**1003870975**

Qual: N  
Current Action Lead: St Perf  
  
Region: 05  
Site ID: 0502096  
EPA ID: IND981957046  
Site Name: COLUMBUS WOOD PRESERVING CO  
NPL: N  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: 1988-08-02 04:00:00  
Finish Date: 1988-08-02 04:00:00  
Qual: H  
Current Action Lead: St Perf

Region: 05  
Site ID: 0502096  
EPA ID: IND981957046  
Site Name: COLUMBUS WOOD PRESERVING CO  
NPL: N  
FF: N  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1987-04-27 04:00:00  
Finish Date: 1987-04-27 04:00:00  
Qual: Not reported  
Current Action Lead: St Perf

**IN BROWNFIELD:**

Facility ID: 4990007  
Project Manager: Lynette Schrowe  
AI Id: 6964  
Financial Assistance: Assessment Grant awarded 4/5/1999  
Other Assistance: Comment Letter 10/5/2004  
ERC Not Required: NR  
Land Use Restriction: Not reported  
Recordation Date or Letter: Not reported

**D23  
WNW  
< 1/8  
0.073 mi.  
387 ft.**

**BARTHOLOMEW COUNTY COMMISSIONERS  
500 2ND ST  
COLUMBUS, IN 47201  
  
Site 2 of 2 in cluster D**

**IN SWRCY S109949479  
N/A**

**Relative:  
Higher  
  
Actual:  
627 ft.**

SWRCY:  
Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARTHOLOMEW COUNTY COMMISSIONERS (Continued)**

**S109949479**

Contact Phone:	Not reported
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Not reported
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	Not reported
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Newspaper, Magazines, Mixed Residential
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARTHOLOMEW COUNTY COMMISIONERS (Continued)**

**S109949479**

Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

**F24  
NE  
< 1/8  
0.080 mi.  
422 ft.**

**BARTHOLOMEW COUNTY FARM BUREAU  
901 THIRD ST  
COLUMBUS, IN 47201**

**IN LUST S106350902  
N/A**

**Site 1 of 5 in cluster F**

**Relative:  
Higher**

**LUST:**

**Actual:  
628 ft.**

Facility ID: 22650  
Incident Number: 199606517  
Description: Deactivated (no release confirmed)  
Priority: Medium

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

25  
WSW  
< 1/8  
0.080 mi.  
424 ft.

MILLER OIL OF INDIANA  
10 S FRANKLIN ST  
COLUMBUS, IN 47201

IN LUST  
IN UST  
1000760757  
N/A

Relative:  
Higher  
Actual:  
621 ft.

LUST:  
Facility ID: 14956  
Incident Number: 200308508  
Description: NFA-Conditional Closure  
Priority: Medium

UST:  
Facility ID: 14956  
Owner Id: 8386  
Company Name: Miller Oil Corp  
Mailing Address: 10 Franklin St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1974  
Tank Capacity: 8000  
Substance Desc: Diesel  
Closed Date: 12/01/1988

Tank Number: 2  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1967  
Tank Capacity: 5000  
Substance Desc: Gasoline  
Closed Date: 12/01/1988

Tank Number: 3  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1967  
Tank Capacity: 1000  
Substance Desc: Gasoline  
Closed Date: 12/01/1988

Tank Number: 4  
**Tank Status:** Unregulated (not billed)  
Install Date: 01/01/1943  
Tank Capacity: 1000  
Substance Desc: Other  
Closed Date: 12/01/1988

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E26**  
**WSW**  
**< 1/8**  
**0.087 mi.**  
**459 ft.**  
**Miller Oil of Indiana Inc**  
**10 Franklin St**  
**Columbus, IN 47201**  
**Site 2 of 2 in cluster E**

**IN AUL**  
**RCRA NonGen / NLR**  
**FINDS**  
**ECHO**  
**IN MANIFEST**  
**IN SCP**  
**1005416105**  
**INR000106013**

**Relative:**  
**Higher**

**Actual:**  
**622 ft.**

AUL:

IC TYPE:	Environmental Restrictive Covenant
Facility Id:	14956
Program Area:	UST
Affected Media:	Ground Water; Subsurface Soil
Date Ic Recorded:	07/24/2013
Description:	Not reported
Control Method A:	Ground Water Use Restriction
Coverage A:	Entire Property
Chemicals Of Concern A:	Petroleum
Comments A:	Not reported
Control Method B:	Residential Use Restriction
Coverage B:	Entire Property
Chemicals Of Concern B:	Petroleum
Comments B:	Not reported
Control Method C:	Restricted Excavation Area
Coverage C:	Entire Property
Chemicals Of Concern C:	Petroleum
Comments C:	Shall not construct or allow the occupancy of any dwelling or work space with a sub-surface space unless there has been an assessment of soil-gas (benzene); if soil-gas levels above screening levels, use vapor barrier or active mitigation system.
Control Method D:	Not reported
Coverage D:	Not reported
Chemicals Of Concern D:	Not reported
Comments D:	Not reported
Control Method E:	Not reported
Coverage E:	Not reported
Chemicals Of Concern E:	Not reported
Comments E:	Not reported
Control Method F:	Not reported
Coverage F:	Not reported
Chemicals Of Concern F:	Not reported
Comments F:	Not reported
Control Method G:	Not reported
Coverage G:	Not reported
Chemicals Of Concern G:	Not reported
Comments G:	Not reported
Control Method H:	Not reported
Coverage H:	Not reported
Chemicals Of Concern H:	Not reported
Comments H:	Not reported
Control Method I:	Not reported
Coverage I:	Not reported
Chemicals Of Concern I:	Not reported
Comments I:	Not reported

RCRA NonGen / NLR:

Date form received by agency: 02/20/2003  
Facility name: MILLER OIL OF INDIANA INC  
Facility address: 10 FRANKLIN ST  
COLUMBUS, IN 47201-6747

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER OIL OF INDIANA INC (Continued)**

**1005416105**

EPA ID: INR000106013  
Contact: WILLIAM MAJESKE  
Contact address: 1751 W RAYMOND ST  
INDIANAPOLIS, IN 46221-2025  
Contact country: US  
Contact telephone: 317-634-7300  
Contact email: Not reported  
EPA Region: 05  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: WILLIAM MAJESKE/GARY S JOHNSON  
Owner/operator address: 1751 W RAYMOND ST  
INDIANAPOLIS, IN 46221  
Owner/operator country: Not reported  
Owner/operator telephone: 317-634-7300  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: MILLER OIL OF INDIANA INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 02/20/2003  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: Yes

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER OIL OF INDIANA INC (Continued)**

**1005416105**

Historical Generators:

Date form received by agency: 02/19/2002  
Site name: MILLER OIL OF INDIANA INC  
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110012139033

Environmental Interest/Information System

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1005416105  
Registry ID: 110012139033  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110012139033>

IN MANIFEST:

Year: Not reported  
EPA ID: INR000106013  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Manifest Handler:

EPA Id #: INR000106013  
Generator Type: Not reported  
Generator Status: Not reported  
Transporter Type: Code no longer valid  
Transporter Status: Non Active



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER OIL OF INDIANA INC (Continued)**

**1005416105**

TSD Type: Not reported  
TSD Status: Not reported  
Handler Mailing Address: 10 FRANKLIN ST  
Handler Mailing City/State/Zip: COLUMBUS, IN 47201-6747  
Contact Name: WILLIAM MAJESKE  
Contact Telephone: 317-634-7300  
Contact Type: A

Year: Not reported  
EPA ID: INR000106013  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: Not reported  
EPA ID: INR000106013  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

SCP:

Facility Id: 3983  
Facility Type: Not reported  
Indicator Name: Not reported  
Doc Number: 63752849  
Date: 10/03/2011  
Program: State Cleanup  
Document Type: Monitoring  
Size: 1 M

**G27  
NW  
< 1/8  
0.091 mi.  
481 ft.**

**TRIANGLE SERVICE STATION  
600-02 3RD ST  
COLUMBUS, IN 47201**

**Site 1 of 4 in cluster G**

**EDR Hist Auto 1020131904  
N/A**

**Relative:  
Higher**

EDR Hist Auto

**Actual:  
629 ft.**

Year:	Name:	Type:
1969	TRIANGLE SERVICE STATION	Gasoline Service Stations
1970	TRIANGLE SERVICE STATION	Gasoline Service Stations
1971	TRIANGLE SERVICE STATION	Gasoline Service Stations
1972	TRIANGLE SERVICE STATION	Gasoline Service Stations
1973	TRIANGLE SERVICE STATION	Gasoline Service Stations

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TRIANGLE SERVICE STATION (Continued)**

**1020131904**

1974 TRIANGLE SERVICE STATION

Gasoline Service Stations

**G28**  
**NW**  
**< 1/8**  
**0.092 mi.**  
**488 ft.**

**NATIONAL ICE COMPANY**  
**542 3RD ST**  
**COLUMBUS, IN 47201**

**IN LUST** **1000762534**  
**IN UST** **N/A**  
**IN AUL**

**Site 2 of 4 in cluster G**

**Relative:**  
**Higher**  
**Actual:**  
**630 ft.**

**LUST:**  
Facility ID: 13761  
Incident Number: 200404506  
Description: NFA-Conditional Closure  
Priority: Low

**UST:**  
Facility ID: 13761  
Owner Id: 931  
Company Name: National Ice Co  
Mailing Address: 542 3rd St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 200  
Substance Desc: Gasoline  
Closed Date: 07/01/1988

**AUL:**  
IC TYPE: Environmental Restrictive Covenant  
Facility Id: 13761  
Program Area: UST  
Affected Media: Subsurface Soil  
Date Ic Recorded: 10/21/2009  
Description: 2009-13155 - Covenant Book. Parcel Report from county GIS shows IHCD the current owner. pc 3/9/11. Source: Website-GIS  
Control Method A: Agricultural or Food Crop  
Coverage A: Entire Property  
Chemicals Of Concern A: TPH - Total Petroleum Hydrocarbons  
Comments A: Not reported  
Control Method B: Excavation Notice Required  
Coverage B: Portion of Property  
Chemicals Of Concern B: TPH - Total Petroleum Hydrocarbons  
Comments B: Not reported  
Control Method C: Ground Water Use Restriction  
Coverage C: Entire Property  
Chemicals Of Concern C: TPH - Total Petroleum Hydrocarbons  
Comments C: Not reported  
Control Method D: Residential Use Restriction  
Coverage D: Entire Property  
Chemicals Of Concern D: TPH - Total Petroleum Hydrocarbons  
Comments D: Not reported  
Control Method E: Not reported  
Coverage E: Not reported  
Chemicals Of Concern E: Not reported  
Comments E: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL ICE COMPANY (Continued)**

**1000762534**

Control Method F:	Not reported
Coverage F:	Not reported
Chemicals Of Concern F:	Not reported
Comments F:	Not reported
Control Method G:	Not reported
Coverage G:	Not reported
Chemicals Of Concern G:	Not reported
Comments G:	Not reported
Control Method H:	Not reported
Coverage H:	Not reported
Chemicals Of Concern H:	Not reported
Comments H:	Not reported
Control Method I:	Not reported
Coverage I:	Not reported
Chemicals Of Concern I:	Not reported
Comments I:	Not reported

**G29**  
**NW**  
**< 1/8**  
**0.096 mi.**  
**505 ft.**

**ICE HOUSE COMMUNITY DEVELOPMENT INCORPORATED**  
**540 3RD ST**  
**COLUMBUS, IN 47201**  
**Site 3 of 4 in cluster G**

**IN MANIFEST** **S117068697**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**630 ft.**

IN MANIFEST:	
Year:	2013
EPA ID:	INR000135798
Tons Generated:	80.71
Tons Shipped OffSite:	80.71
Report Type:	Not reported
Page No:	Not reported
Waste Desc:	Not reported
UOM:	Not reported
TSDF EPAID:	Not reported
Management code:	Not reported
Management Desc:	Not reported

**G30**  
**NW**  
**< 1/8**  
**0.096 mi.**  
**505 ft.**

**ICE HOUSE COMMUNITY DEVELOPMENT INC**  
**540 3RD ST**  
**COLUMBUS, IN 47201**  
**Site 4 of 4 in cluster G**

**RCRA NonGen / NLR** **1016168697**  
**FINDS** **INR000135798**  
**ECHO**

**Relative:**  
**Higher**  
**Actual:**  
**630 ft.**

RCRA NonGen / NLR:	
Date form received by agency:	05/02/2014
Facility name:	ICE HOUSE COMMUNITY DEVELOPMENT INC
Facility address:	540 3RD ST COLUMBUS, IN 47201
EPA ID:	INR000135798
Mailing address:	5TH ST COLUMBUS, IN 47201
Contact:	JON REYNOLDS
Contact address:	5TH ST COLUMBUS, IN 47201
Contact country:	US
Contact telephone:	812-225-6799
Contact email:	JREYNOLDS47@COMCAST.NET

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ICE HOUSE COMMUNITY DEVELOPMENT INC (Continued)**

**1016168697**

EPA Region: 05  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: ICE HOUSE COMMUNITY DEVELOPMENT INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/2009  
Owner/Op end date: Not reported

Owner/operator name: ICE HOUSE COMMUNITY DEVELOPMENT INC  
Owner/operator address: 5TH ST  
COLUMBUS, IN 47201  
Owner/operator country: US  
Owner/operator telephone: 812-379-4491  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2009  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ICE HOUSE COMMUNITY DEVELOPMENT INC (Continued)**

**1016168697**

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008  
. Waste name: LEAD

Historical Generators:

Date form received by agency: 05/01/2014

Site name: ICE HOUSE COMMUNITY DEVELOPMENT INC

Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008  
. Waste name: LEAD

Date form received by agency: 07/25/2013

Site name: ICE HOUSE COMMUNITY DEVELOPMENT INCORPORATED

Classification: Large Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ICE HOUSE COMMUNITY DEVELOPMENT INC (Continued)**

**1016168697**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE  
DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008  
. Waste name: LEAD

Violation Status: No violations found

**FINDS:**

Registry ID: 110055525070

**Environmental Interest/Information System**

RCRAInfo is a national information system that supports the Resource  
Conservation and Recovery Act (RCRA) program through the tracking of  
events and activities related to facilities that generate, transport,  
and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA  
program staff to track the notification, permit, compliance, and  
corrective action activities required under RCRA.

**HAZARDOUS WASTE BIENNIAL REPORTER**

[Click this hyperlink](#) while viewing on your computer to access  
additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1016168697  
Registry ID: 110055525070  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110055525070>

**F31**  
**NE**  
**< 1/8**  
**0.102 mi.**  
**537 ft.**

**TAGGART RALPH**  
**924 3RD ST**  
**COLUMBUS, IN 47201**

**EDR Hist Auto** **1020906650**  
**N/A**

**Site 2 of 5 in cluster F**

**Relative:**  
**Higher**

EDR Hist Auto

**Actual:**  
**625 ft.**

Year:	Name:	Type:
1969	TAGGART RALPH	Gasoline Service Stations
1970	TAGGART RALPH	Gasoline Service Stations
1971	TAGGART RALPH	Gasoline Service Stations
1972	TAGGART RALPH	Gasoline Service Stations
1973	TAGGART RALPH	Gasoline Service Stations
1974	TAGGART RALPH	Gasoline Service Stations
1975	TAGGART RALPH	Gasoline Service Stations
1987	TAGS MARATHON	Not reported
1988	TAGGART RALPH	Gasoline Service Stations
1988	TAGS MARATHON	Not reported
1989	TAGGART RALPH	Gasoline Service Stations
1990	TAGGART RALPH	Gasoline Service Stations
1991	TAGGART RALPH	Gasoline Service Stations
1992	TAGGART RALPH	Gasoline Service Stations
1993	TAGGART RALPH	Gasoline Service Stations
1994	TAGGART RALPH	Gasoline Service Stations

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

F32  
NE  
< 1/8  
0.102 mi.  
537 ft.

NATIONAL CAR RENTAL  
924 3RD ST  
COLUMBUS, IN 47201

IN LUST  
IN UST

U001321780  
N/A

Relative:  
Higher  
Actual:  
625 ft.

LUST:

Facility ID: 7958  
Incident Number: 199003560  
Description: NFA-Unconditional Closure  
Priority: Low

UST:

Facility ID: 7958  
Owner Id: 2553  
Company Name: A E J Corp  
Mailing Address: 326 California St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Gasoline  
Closed Date: 03/27/1990

Tank Number: 2  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Gasoline  
Closed Date: 03/27/1990

Tank Number: 3  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Gasoline  
Closed Date: 03/27/1990

Tank Number: 4  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Gasoline  
Closed Date: 03/27/1990

Tank Number: 5  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 550  
Substance Desc: Used Oil  
Closed Date: 03/27/1990

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F33**  
**NE**  
**< 1/8**  
**0.106 mi.**  
**561 ft.**

**CRYSTAL FLASH**  
**910 THIRD ST**  
**COLUMBUS, IN 47201**

**Site 4 of 5 in cluster F**

**EDR Hist Auto**    **1020528204**  
**N/A**

**Relative:**  
**Higher**

EDR Hist Auto

**Actual:**  
**625 ft.**

Year:	Name:	Type:
1986	CRYSTAL FLASH	Gasoline Service Stations
1987	CRYSTAL FLASH	Gasoline Service Stations
1988	CRYSTAL FLASH	Gasoline Service Stations
1989	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1990	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1991	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1992	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1993	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1994	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1995	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1996	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1997	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1998	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
1999	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2000	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2001	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2002	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2003	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2004	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2005	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2006	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2007	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2008	CRYSTAL FLASH PETROLEUM CORP	Gasoline Service Stations, NEC
2009	CRYSTAL FLASH PETROLEUM LLC	Gasoline Service Stations, NEC
2010	CRYSTAL FLASH PETROLEUM LLC	Gasoline Service Stations, NEC
2012	JACKS PLACE TWO INC	Gasoline Service Stations
2013	JACKS PLACE TWO INC	Gasoline Service Stations
2014	JACKS PLACE TWO INC	Gasoline Service Stations

**F34**  
**NE**  
**< 1/8**  
**0.106 mi.**  
**561 ft.**

**JACKS PLACE 2**  
**910 3RD ST**  
**COLUMBUS, IN 47201**

**Site 5 of 5 in cluster F**

**IN LUST**    **U001077191**  
**IN UST**    **N/A**

**Relative:**  
**Higher**

LUST:

**Actual:**  
**625 ft.**

Facility ID: 3301  
Incident Number: 199903541  
Description: NFA-Unconditional Closure  
Priority: Medium

UST:

Facility ID: 3301  
Owner Id: 47444  
Company Name: Jacks Place Two Incorporated  
Mailing Address: 6640 Silverthorne Way  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Indianapolis, IN 46259

Tank Number: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACKS PLACE 2 (Continued)**

**U001077191**

**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1971  
Tank Capacity: 3000  
Substance Desc: Kerosene  
Closed Date: 12/30/1998

Tank Number: 10  
**Tank Status:** Currently in use  
Install Date: 01/13/1999  
Tank Capacity: 4000  
Substance Desc: Kerosene  
Closed Date: Not reported

Tank Number: 2  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1971  
Tank Capacity: 8000  
Substance Desc: Gasoline  
Closed Date: 12/30/1998

Tank Number: 3  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1971  
Tank Capacity: 8000  
Substance Desc: Gasoline  
Closed Date: 12/30/1998

Tank Number: 4  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1971  
Tank Capacity: 3000  
Substance Desc: Gasoline  
Closed Date: 12/30/1998

Tank Number: 5  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1971  
Tank Capacity: 3000  
Substance Desc: Diesel  
Closed Date: 12/30/1998

Tank Number: 6  
**Tank Status:** Permanently Out of Service  
Install Date: 01/01/1971  
Tank Capacity: 10000  
Substance Desc: Diesel  
Closed Date: 12/30/1998

Tank Number: 7  
**Tank Status:** Currently in use

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACKS PLACE 2 (Continued)**

**U001077191**

Install Date: 01/13/1999  
Tank Capacity: 15000  
Substance Desc: Gasoline  
Closed Date: Not reported

Tank Number: 8  
**Tank Status: Currently in use**  
Install Date: 01/13/1999  
Tank Capacity: 8000  
Substance Desc: Gasoline  
Closed Date: Not reported

Tank Number: 9  
**Tank Status: Currently in use**  
Install Date: 01/13/1999  
Tank Capacity: 8000  
Substance Desc: Gasoline  
Closed Date: Not reported

**35  
NW  
1/8-1/4  
0.136 mi.  
720 ft.**

**BARTHOLOMEW COUNTY HEALTH DEPT  
440 3RD ST STE 303  
COLUMBUS, IN 47201**

**IN OISC S112253612  
N/A**

**Relative:  
Higher**

OISC:  
Name: OISC  
Physical Address: Not reported  
Mailing Address: 440 3RD ST STE 303  
Phone: 812-379-1550  
EMail: Not reported  
Applicator Name: AARON B. SANDERS

Name: OISC  
Physical Address: Not reported  
Mailing Address: 440 3RD ST STE 303  
Phone: 812-379-1550  
EMail: Not reported  
Applicator Name: LINK T. FULP

Name: OISC  
Physical Address: Not reported  
Mailing Address: 440 3RD ST STE 303  
Phone: 812-379-1550  
EMail: Not reported  
Applicator Name: SCOTT BRIAN STRIETELMEIER

Name: OISC  
Physical Address: Not reported  
Mailing Address: 440 3RD ST STE 303  
Phone: 812-379-1550  
EMail: Not reported  
Applicator Name: MATTHEW L. GALBRAITH

Name: OISC  
Physical Address: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BARTHOLOMEW COUNTY HEALTH DEPT (Continued)**

**S112253612**

Mailing Address: 440 3RD ST STE 303  
Phone: 812-379-1550  
EMail: Not reported  
Applicator Name: SCOTT E. MURRAY

**36  
NW  
1/8-1/4  
0.147 mi.  
774 ft.**

**FIRST CHRISTIAN CHURCH  
541 4TH ST  
COLUMBUS, IN 47201**

**IN SWRCY S121116804  
N/A**

**Relative:  
Higher**

**Actual:  
630 ft.**

SWRCY:  
Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIRST CHRISTIAN CHURCH (Continued)**

**S121116804**

Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

**H37  
NE  
1/8-1/4  
0.147 mi.  
778 ft.**

**ART'S CLEANERS  
326 CALIFORNIA ST  
COLUMBUS, IN 47201**

**IN DRYCLEANERS**

**S108162297  
N/A**

**Site 1 of 3 in cluster H**

**Relative:  
Higher**

IN Dryclean:

**Actual:  
625 ft.**

Facility ID: IN0503411  
Alias Name: Not reported  
Facility Telephone: 812/372-2522  
Contact Name: JIM POORE  
Contact Phone: Not reported  
Address: 326 CALIFORNIA ST  
City: COLUMBUS  
State: IN  
Zip Code: 47201  
Zip4: 6827  
Comment: UPDATED ON 10/96  
Violation: 323(D); 324(D). (D)(3)(5)  
Perc Gallons: 240  
Estimated Perc Gallons: Not reported  
RMEN Closed: No  
Other: No  
Int Received Date: 09/11/96  
Prev Received Date: 09/11/96  
Cntrl Received Date: 09/11/96  
Class/Mach: 2-LNA/DRC  
Five Star: NA  
Cmpl Action: VL/IS  
Inspection Date: 11/17/97;1/8/01  
Inspector: DTR  
Mailed Date: 1/24/01  
Status: Not reported  
Cause: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ART'S CLEANERS (Continued)

S108162297

Date Response: 2/1/01  
PO Notes: Not reported

H38  
NE  
1/8-1/4  
0.147 mi.  
778 ft.

ARTS CLEANERS  
326 CALIFORNIA ST  
COLUMBUS, IN 47201

IN UST U004020621  
N/A

Site 2 of 3 in cluster H

Relative:  
Higher

UST:

Actual:  
625 ft.

Facility ID: 826  
Owner Id: 885  
Company Name: Art's Cleaners Inc  
Mailing Address: 326 California St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Other  
Closed Date: 03/01/1980

Tank Number: 1  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 2  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 2  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Other  
Closed Date: 03/01/1980

Tank Number: 3  
**Tank Status:** Permanently Out of Service  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS (Continued)**

**U004020621**

**Tank Status:** Permanently Out of Service  
**Install Date:** Not reported  
**Tank Capacity:** 500  
**Substance Desc:** Other  
**Closed Date:** 03/01/1980

**H39**  
**NE**  
**1/8-1/4**  
**0.147 mi.**  
**778 ft.**

**ARTS CLEANERS INC**  
**326 CALIFORNIA ST**  
**COLUMBUS, IN 47201**

**Site 3 of 3 in cluster H**

**Relative:**  
**Higher**

**Actual:**  
**625 ft.**

**RCRA-SQG:**

Date form received by agency: 03/03/2017  
Facility name: EASYJACKS INC DBA ARTS CLEANERS  
Facility address: 326 CALIFORNIA ST  
COLUMBUS, IN 47201  
EPA ID: IND016238586  
Mailing address: CALIFORNIA ST  
COLUMBUS, IN 47201  
Contact: BRIAN KLEM  
Contact address: CALIFORNIA ST  
COLUMBUS, IN 47201  
Contact country: US  
Contact telephone: 812-372-2522  
Contact email: ARTSCLEANERS@SBCGLOBAL.NET  
EPA Region: 05  
Land type: Private  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: BRIAN KLEM  
Owner/operator address: 326 CALIFORNIA ST  
COLUMBUS, IN 47201  
Owner/operator country: US  
Owner/operator telephone: 812-372-2522  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 04/30/2005  
Owner/Op end date: Not reported  
  
Owner/operator name: BRIAN KLEM  
Owner/operator address: 326 CALIFORNIA ST  
COLUMBUS, IN 47201  
Owner/operator country: US  
Owner/operator telephone: 812-372-2522  
Owner/operator email: Not reported

**RCRA-SQG**  
**FINDS**  
**ECHO**  
**IN IND WASTE**  
**IN MANIFEST**  
**RI MANIFEST**  
**IN SCP**

**1000463917**  
**IND016238586**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 04/30/2005  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

**Historical Generators:**

Date form received by agency: 02/18/2016  
Site name: EASYJACKS INC DBA ARTS CLEANERS  
Classification: Small Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 03/02/2015  
Site name: EASYJACKS INC DBA ARTS CLEANERS  
Classification: Small Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Date form received by agency: 05/08/2006

Site name: EASYJACKS INC DBA ARTS CLEANERS

Classification: Small Quantity Generator

Date form received by agency: 12/09/1992

Site name: ARTS CLEANERS INC

Classification: Small Quantity Generator

Date form received by agency: 08/22/1986

Site name: ARTS CLEANERS INC

Classification: Small Quantity Generator

. Waste code: D000

. Waste name: Not Defined

. Waste code: F002

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - Pre-transport

Date violation determined: 08/26/2009

Date achieved compliance: 09/08/2009

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/08/2009

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: Not reported

Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 09/24/2014

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 08/26/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - Pre-transport

Date achieved compliance: 09/08/2009



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Evaluation lead agency: State  
  
Evaluation date: 09/13/2001  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110003075261

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**STATE MASTER**

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000463917  
Registry ID: 110003075261  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003075261>

**IND WASTE:**

Regulatory: IND016238586  
Program: HW  
Reference: Access Point  
Date Data Collect: Not reported  
Object ID: 222803

**IN MANIFEST:**

Year: 2016  
EPA ID: IND016238586  
Tons Generated: 0.25  
Tons Shipped OffSite: Not reported  
Report Type: Annual  
Page No: 1  
Waste Desc: UN2810 WASTE TOXIC LIQUID, ORGANIC N.O.S. (TETRACHLOROETHYLENE, TRICHLOROETHYLENE) 6.1 PGIII RQ (F002)  
UOM: Short Tons

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

TSDF EPAID: TXD055141378  
Management code: 47201  
Management Desc: Not reported

Manifest Handler:

EPA Id #: IND016238586  
Generator Type: SQG  
Generator Status: Active Handler  
Transporter Type: Code no longer valid  
Transporter Status: Non Active  
TSD Type: Not reported  
TSD Status: Not reported  
Handler Mailing Address: 326 CALIFORNIA ST  
Handler Mailing City/State/Zip: COLUMBUS, IN 47201  
Contact Name: BRIAN KLEM  
Contact Telephone: 812-372-2522  
Contact Type: Environmental Coordinator

Shipment Records:

Generator EPA Id: IND016238586  
Actual Generator Type: 2  
Waste Description Shipped: TETRACHLOROETHYLENE & FILTERS  
Shipped File Page Number: 1  
Number Of TSD Facilities: 1  
Waste Codes on Page Number: 2  
Waste Code: D040  
Tons Of Waste Shipped Year: 0.18075  
TSD Facility EPA ID: OHD980587364  
TSD Name: SAFETY KLEEN SYSTEMS INC

Generator EPA Id: IND016238586  
Actual Generator Type: 2  
Waste Description Shipped: TETRACHLOROETHYLENE & FILTERS  
Shipped File Page Number: 1  
Number Of TSD Facilities: 1  
Waste Codes on Page Number: 1  
Waste Code: D039  
Tons Of Waste Shipped Year: 0.18075  
TSD Facility EPA ID: OHD980587364  
TSD Name: SAFETY KLEEN SYSTEMS INC

Transporter Records:

Report Year: 2006  
Generator EPA ID: IND016238586  
Page Number of Report: 1  
TSD EPA Id: TXR000050930  
Num Of Transporters Used: 1

Submitted Records:

EPA Id: IND016238586  
Report Type: Annual report  
Contact Name: BRIAN KLEM  
Phone: 812-372-2522  
Contact Address: 326 CALIFORNIA ST  
Contact Address2: Not reported  
Contact City/State/Zip: COLUMBUS, IN 47201

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Waste Report:

EPA Id: IND016238586  
Report Type: Annual report  
Page #: 1  
Amount Generated: 0  
Generated Unit Of Measure: Not reported  
Amount Shipped: 4290  
Shipped Unit Of Measure: pounds  
TSD Id: OHD980587364  
TSD Name: SAFETY KLEEN SYSTEMS INC  
System Type: H020  
Source Code: Not reported  
Form Code: Not reported  
Description: WASTE TOXIC LIQUID, ORGANIC, NOS, TETRACHLOROETHYLENE

Year: 2014  
EPA ID: IND016238586  
Tons Generated: 0.00  
Tons Shipped OffSite: 0.70  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: 2014  
EPA ID: IND016238586  
Tons Generated: 0.00  
Tons Shipped OffSite: 0.35  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: 2013  
EPA ID: IND016238586  
Tons Generated: 0.00  
Tons Shipped OffSite: 0.96  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: 2012  
EPA ID: IND016238586  
Tons Generated: 0.00  
Tons Shipped OffSite: 0.71  
Report Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDf EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
10 additional IN MANIFEST: record(s) in the EDR Site Report.

**RI MANIFEST:**

EPA Id: IND016238586  
GEN Cert Date: 2/17/2011  
Manifest Document Number: 002660785SKS  
Waste Description: TOXIC LIQUIDS ORGANIC NOS  
TSDf Id: RID084802842  
TSDf Name: SAFETY KLEEN  
Qty: 372  
WT/Vol Units: P  
TSDf Date: 2/25/2011  
Transporter 2 Id: NJD071629976  
Item Number: 1  
Transporter 2 Name: 2/25/2011  
Transporter Name 2: SAFETY KLEEN  
Transporter EPAID: TXR000050930  
Transporter Receipt Date: 2/17/2011  
Number Of Containers: 3  
Container Type: DF  
Waste Code1: D007  
Waste Code2: D029  
Waste Code3: D039  
Waste Code4: Not reported  
Waste Code5: Not reported  
Waste Code6: Not reported  
Fee Exempt Code: Not reported  
Comment: Not reported  
Transporter Name 2: SJ TRANSPORTATION CO INC  
Company Permit Number: Not reported  
Year: Not reported  
Quarter: Not reported  
Transporter Contact Name: Not reported  
Transporter Contact Email: Not reported  
Filing Date: Not reported  
Total Fee: Not reported  
Billing Name: Not reported  
Paid Date: Not reported  
Paid Time: Not reported  
Facility Receipt Date: Not reported  
Fee: Not reported  
Manifest Created Date: Not reported  
Manifest Updated Date: Not reported

**RI MANIFEST:**

Transporter Receipt Date: 8/4/2011  
Number Of Containers: 6  
Container Type: DF  
Waste Code1: D007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Waste Code2:	D029
Waste Code3:	D039
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSD Name:	SAFETY KLEEN
TSD ID:	RID084802842
Transporter Name 2:	SJ TRANSPORTATION CO INC
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	IND016238586
Manifest Docket Number:	002865145SKS
Quarter:	Not reported
Waste Description:	TOXIC LIQUIDS ORGANIC NOS
Transporter Contact Name:	Not reported
Quantity:	744
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	SAFETY KLEEN
Billing Name:	Not reported
Transporter EPA ID:	TXR000050930
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	8/4/2011
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	8/19/2011
Manifest Created Date:	Not reported
TSD Receipt Date:	8/19/2011
Transporter 2 ID:	NJD071629976
Manifest Updated Date:	Not reported
Transporter Receipt Date:	8/4/2011
Number Of Containers:	6
Container Type:	DF
Waste Code1:	D007
Waste Code2:	D029
Waste Code3:	D039
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSD Name:	SAFETY KLEEN
TSD ID:	RID084802842
Transporter Name 2:	SJ TRANSPORTATION CO INC
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	IND016238586
Manifest Docket Number:	002865145SKS
Quarter:	Not reported
Waste Description:	TOXIC LIQUIDS ORGANIC NOS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Transporter Contact Name:	Not reported
Quantity:	744
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	SAFETY KLEEN
Billing Name:	Not reported
Transporter EPA ID:	TXR000050930
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	8/4/2011
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	8/19/2011
Manifest Created Date:	Not reported
TSDf Receipt Date:	8/19/2011
Transporter 2 ID:	NJD071629976
Manifest Updated Date:	Not reported
Transporter Receipt Date:	2/17/2011
Number Of Containers:	3
Container Type:	DF
Waste Code1:	D007
Waste Code2:	D029
Waste Code3:	D039
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	SAFETY KLEEN
TSDf Id:	RID084802842
Transporter Name 2:	SJ TRANSPORTATION CO INC
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	IND016238586
Manifest Docket Number:	002660785SKS
Quarter:	Not reported
Waste Description:	TOXIC LIQUIDS ORGANIC NOS
Transporter Contact Name:	Not reported
Quantity:	372
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	SAFETY KLEEN
Billing Name:	Not reported
Transporter EPA ID:	TXR000050930
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	2/17/2011
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	2/25/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Manifest Created Date:	Not reported
TSDf Receipt Date:	2/25/2011
Transporter 2 ID:	NJD071629976
Manifest Updated Date:	Not reported
Transporter Receipt Date:	2/17/2011
Number Of Containers:	3
Container Type:	DF
Waste Code1:	D007
Waste Code2:	D029
Waste Code3:	D039
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	SAFETY KLEEN
TSDf Id:	RID084802842
Transporter Name 2:	SJ TRANSPORTATION CO INC
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	IND016238586
Manifest Docket Number:	002660785SKS
Quarter:	Not reported
Waste Description:	TOXIC LIQUIDS ORGANIC NOS
Transporter Contact Name:	Not reported
Quantity:	372
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	SAFETY KLEEN
Billing Name:	Not reported
Transporter EPA ID:	TXR000050930
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	2/17/2011
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	2/25/2011
Manifest Created Date:	Not reported
TSDf Receipt Date:	2/25/2011
Transporter 2 ID:	NJD071629976
Manifest Updated Date:	Not reported
Transporter Receipt Date:	11/16/2010
Number Of Containers:	6
Container Type:	DF
Waste Code1:	D007
Waste Code2:	D029
Waste Code3:	D039
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

TSD Name:	SAFETY KLEEN
TSD ID:	RID084802842
Transporter Name 2:	SJ TRANSPORTATION CO INC
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	IND016238586
Manifest Docket Number:	003878758FLE
Quarter:	Not reported
Waste Description:	TOXIC LIQUIDS ORGANIC NOS
Transporter Contact Name:	Not reported
Quantity:	820
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	SAFETY KLEEN
Billing Name:	Not reported
Transporter EPA ID:	TXR000050930
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	11/16/2010
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	12/3/2010
Manifest Created Date:	Not reported
TSD Receipt Date:	12/3/2010
Transporter 2 ID:	NJD071629976
Manifest Updated Date:	Not reported
Transporter Receipt Date:	11/16/2010
Number Of Containers:	6
Container Type:	DF
Waste Code1:	D007
Waste Code2:	D029
Waste Code3:	D039
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSD Name:	SAFETY KLEEN
TSD ID:	RID084802842
Transporter Name 2:	SJ TRANSPORTATION CO INC
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	IND016238586
Manifest Docket Number:	003878758FLE
Quarter:	Not reported
Waste Description:	TOXIC LIQUIDS ORGANIC NOS
Transporter Contact Name:	Not reported
Quantity:	820
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Transporter Name:	SAFETY KLEEN
Billing Name:	Not reported
Transporter EPA ID:	TXR000050930
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	11/16/2010
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	12/3/2010
Manifest Created Date:	Not reported
TSDf Receipt Date:	12/3/2010
Transporter 2 ID:	NJD071629976
Manifest Updated Date:	Not reported

**SCP:**

Facility Id:	853
Facility Type:	Not reported
Indicator Name:	Not reported
Doc Number:	80336209
Date:	07/06/2016
Program:	State Cleanup
Document Type:	Site Characterization
Size:	106 K

Facility Id:	853
Facility Type:	Not reported
Indicator Name:	Not reported
Doc Number:	80299721
Date:	05/26/2016
Program:	State Cleanup
Document Type:	Site Characterization
Size:	3 M

Facility Id:	853
Facility Type:	Not reported
Indicator Name:	Not reported
Doc Number:	80079261
Date:	08/06/2014
Program:	State Cleanup
Document Type:	Enforcement
Size:	21 K

Facility Id:	853
Facility Type:	Not reported
Indicator Name:	Not reported
Doc Number:	80059382
Date:	01/16/2015
Program:	State Cleanup
Document Type:	Site Characterization
Size:	5 M

Facility Id:	853
Facility Type:	Not reported
Indicator Name:	Not reported
Doc Number:	80015336
Date:	02/03/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARTS CLEANERS INC (Continued)**

**1000463917**

Program: State Cleanup  
Document Type: Site Characterization  
Size: 2 M

Facility Id: 853  
Facility Type: Not reported  
Indicator Name: Not reported  
Doc Number: 70484908  
Date: 10/14/2014  
Program: State Cleanup  
Document Type: Enforcement  
Size: 958 K

Facility Id: 853  
Facility Type: Not reported  
Indicator Name: Not reported  
Doc Number: 70279202  
Date: 08/04/2014  
Program: State Cleanup  
Document Type: Enforcement  
Size: 81 K

**I40  
ESE  
1/8-1/4  
0.200 mi.  
1058 ft.**

**MARIAH FOODS  
1333 INDIANA AVE  
COLUMBUS, IN 47201**

**IN UST U003969031  
N/A**

**Site 1 of 2 in cluster I**

**Relative:  
Lower  
Actual:  
614 ft.**

UST:  
Facility ID: 17288  
Owner Id: 9734  
Company Name: Mariah Packing  
Mailing Address: 1333 Indiana Ave  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status: Unregulated (not billed)**  
Install Date: Not reported  
Tank Capacity: 5000  
Substance Desc: Gasoline  
Closed Date: Not reported

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Gasoline  
Closed Date: Not reported

Tank Number: 3  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Gasoline  
Closed Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

EDR ID Number  
EPA ID Number

**I41**  
**ESE**  
**1/8-1/4**  
**0.200 mi.**  
**1058 ft.**  
**Site 2 of 2 in cluster I**

**IN AUL**  
**IN VCP**  
**IN SPILLS**  
**IN AIRS**  
**IN NPDES**  
**IN TIER 2**  
**S107705921**  
**N/A**

**Relative:**  
**Lower**

**Actual:**  
**614 ft.**

**AUL:**

IC TYPE: Environmental Restrictive Covenant  
Facility Id: 6970606  
Program Area: Voluntary Remediation Program  
Affected Media: Ground Water; Subsurface Soil; Surface Soil  
Date Ic Recorded: 09/17/2008  
Description: Not reported  
Control Method A: Agricultural or Food Crop  
Coverage A: Entire Property  
Chemicals Of Concern A: Metals; SVOCs - Semi Volatile Organic Compounds; VOCs - Volatile Organic Compounds  
Comments A: Not reported  
Control Method B: Excavation Notice Required  
Coverage B: Portion of Property  
Chemicals Of Concern B: SVOCs - Semi Volatile Organic Compounds; VOCs - Volatile Organic Compounds; Metals  
Comments B: Do not excavate soil below 4 feet deep in the Affected Areas without submitting a work plan to IDEM for approval at least 30 days prior to beginning work.  
Control Method C: Ground Water Use Restriction  
Coverage C: Entire Property  
Chemicals Of Concern C: SVOCs - Semi Volatile Organic Compounds ;VOCs - Volatile Organic Compounds; Metals  
Comments C: Not reported  
Control Method D: Residential Use Restriction  
Coverage D: Entire Property  
Chemicals Of Concern D: Metals; SVOCs - Semi Volatile Organic Compounds; VOCs - Volatile Organic Compounds  
Comments D: Not reported  
Control Method E: Not reported  
Coverage E: Not reported  
Chemicals Of Concern E: Not reported  
Comments E: Not reported  
Control Method F: Not reported  
Coverage F: Not reported  
Chemicals Of Concern F: Not reported  
Comments F: Not reported  
Control Method G: Not reported  
Coverage G: Not reported  
Chemicals Of Concern G: Not reported  
Comments G: Not reported  
Control Method H: Not reported  
Coverage H: Not reported  
Chemicals Of Concern H: Not reported  
Comments H: Not reported  
Control Method I: Not reported  
Coverage I: Not reported  
Chemicals Of Concern I: Not reported  
Comments I: Not reported

**VCP:**

Status: Inactive

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

VRP Id Number: 6970606  
Applicant Name: Not reported  
LandUse Restrictions/Institutional Controls: Bartholomew County ERC #200800011453. See footnote #20 below  
Project Manager: Holland  
Covenant Not To Sue Date: 07/13/2010  
Certificate of Completion Date: 11/20/2008  
New Coding Number: VM0GU  
App# Date: 06/26/1997  
App# Acceptance: Not reported  
VRA executed: 11/25/1997  
RWP Received: 10/10/2002  
RWP Approved: 11/04/2005  
Comp Date: Not reported  
Comments: Not reported  
Contamination: 1,1,1-Trichloroethane  
Media: Groundwater  
Project Description: The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.  
  
Past Actions: Not reported  
Issues and Impacts: Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.  
  
Future Actions: Not reported  
Additional Comments: Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.

Status: Inactive  
VRP Id Number: 6970606  
Applicant Name: Not reported  
LandUse Restrictions/Institutional Controls: Bartholomew County ERC #200800011453. See footnote #20 below  
Project Manager: Holland  
Covenant Not To Sue Date: 07/13/2010  
Certificate of Completion Date: 11/20/2008  
New Coding Number: VM0GU  
App# Date: 06/26/1997  
App# Acceptance: Not reported  
VRA executed: 11/25/1997  
RWP Received: 10/10/2002  
RWP Approved: 11/04/2005  
Comp Date: Not reported  
Comments: Not reported  
Contamination: Arsenic  
Media: Groundwater  
Project Description: The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.  
  
Past Actions: Not reported  
Issues and Impacts: Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.  
  
Future Actions: Not reported  
Additional Comments: Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.

Status: Inactive  
VRP Id Number: 6970606  
Applicant Name: Not reported  
LandUse Restrictions/Institutional Controls: Bartholomew County ERC #200800011453. See footnote #20 below

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

Project Manager:	Holland
Covenant Not To Sue Date:	07/13/2010
Certificate of Completion Date:	11/20/2008
New Coding Number:	VM0GU
App# Date:	06/26/1997
App# Acceptance:	Not reported
VRA executed:	11/25/1997
RWP Received:	10/10/2002
RWP Approved:	11/04/2005
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Benzene
Media:	Groundwater
Project Description:	The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.
Past Actions:	Not reported
Issues and Impacts:	Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.
Future Actions:	Not reported
Additional Comments:	Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.
Status:	Inactive
VRP Id Number:	6970606
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Bartholomew County ERC #200800011453. See footnote #20 below
Project Manager:	Holland
Covenant Not To Sue Date:	07/13/2010
Certificate of Completion Date:	11/20/2008
New Coding Number:	VM0GU
App# Date:	06/26/1997
App# Acceptance:	Not reported
VRA executed:	11/25/1997
RWP Received:	10/10/2002
RWP Approved:	11/04/2005
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Benzo [a] anthracene
Media:	Groundwater
Project Description:	The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.
Past Actions:	Not reported
Issues and Impacts:	Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.
Future Actions:	Not reported
Additional Comments:	Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.
Status:	Inactive
VRP Id Number:	6970606
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Bartholomew County ERC #200800011453. See footnote #20 below
Project Manager:	Holland
Covenant Not To Sue Date:	07/13/2010
Certificate of Completion Date:	11/20/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

New Coding Number:	VM0GU
App# Date:	06/26/1997
App# Acceptance:	Not reported
VRA executed:	11/25/1997
RWP Received:	10/10/2002
RWP Approved:	11/04/2005
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Ethyl benzene
Media:	Groundwater
Project Description:	The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.
Past Actions:	Not reported
Issues and Impacts:	Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.
Future Actions:	Not reported
Additional Comments:	Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.
Status:	Inactive
VRP Id Number:	6970606
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Bartholomew County ERC #200800011453. See footnote #20 below
Project Manager:	Holland
Covenant Not To Sue Date:	07/13/2010
Certificate of Completion Date:	11/20/2008
New Coding Number:	VM0GU
App# Date:	06/26/1997
App# Acceptance:	Not reported
VRA executed:	11/25/1997
RWP Received:	10/10/2002
RWP Approved:	11/04/2005
Comp Date:	Not reported
Comments:	Not reported
Contamination:	Lead
Media:	Groundwater
Project Description:	The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.
Past Actions:	Not reported
Issues and Impacts:	Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.
Future Actions:	Not reported
Additional Comments:	Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.
Status:	Inactive
VRP Id Number:	6970606
Applicant Name:	Not reported
LandUse Restrictions/Institutional Controls:	Bartholomew County ERC #200800011453. See footnote #20 below
Project Manager:	Holland
Covenant Not To Sue Date:	07/13/2010
Certificate of Completion Date:	11/20/2008
New Coding Number:	VM0GU
App# Date:	06/26/1997
App# Acceptance:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

VRA executed: 11/25/1997  
RWP Received: 10/10/2002  
RWP Approved: 11/04/2005  
Comp Date: Not reported  
Comments: Not reported  
Contamination: Pyrene  
Media: Groundwater  
Project Description: The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.  
  
Past Actions: Not reported  
Issues and Impacts: Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.  
  
Future Actions: Not reported  
Additional Comments: Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.

Status: Inactive  
VRP Id Number: 6970606  
Applicant Name: Not reported  
LandUse Restrictions/Institutional Controls: Bartholomew County ERC #200800011453. See footnote #20 below  
Project Manager: Holland  
Covenant Not To Sue Date: 07/13/2010  
Certificate of Completion Date: 11/20/2008  
New Coding Number: VM0GU  
App# Date: 06/26/1997  
App# Acceptance: Not reported  
VRA executed: 11/25/1997  
RWP Received: 10/10/2002  
RWP Approved: 11/04/2005  
Comp Date: Not reported  
Comments: Not reported  
Contamination: Toluene  
Media: Groundwater  
Project Description: The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.  
  
Past Actions: Not reported  
Issues and Impacts: Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.  
  
Future Actions: Not reported  
Additional Comments: Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.

Status: Inactive  
VRP Id Number: 6970606  
Applicant Name: Not reported  
LandUse Restrictions/Institutional Controls: Bartholomew County ERC #200800011453. See footnote #20 below  
Project Manager: Holland  
Covenant Not To Sue Date: 07/13/2010  
Certificate of Completion Date: 11/20/2008  
New Coding Number: VM0GU  
App# Date: 06/26/1997  
App# Acceptance: Not reported  
VRA executed: 11/25/1997  
RWP Received: 10/10/2002  
RWP Approved: 11/04/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

Comp Date:	Not reported
Comments:	Not reported
Contamination:	Xylenes
Media:	Groundwater
Project Description:	The project goals listed in the application are to attain Tier 2 Residential Cleanup Goals.
Past Actions:	Not reported
Issues and Impacts:	Whether lagoon area will be included. August Mack is now the applicant's consultant. They are preparing a combined Phase II / RWP for submittal.
Future Actions:	Not reported
Additional Comments:	Spoke with Tim DeWitt from August Mack on 8/6/2001. They conducted a groundwater sampling last week on the existing wells at the facility.

**SPILL:**

Facility ID:	200012180
Incident Date:	12/25/2000
Report Date:	12/29/2000
Material:	Diesel Fuel
Spill Source:	Industrial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	80
Spilled Units:	G
Contained:	Not reported
Water Affected:	NONE
Spill Type:	Spill
Area Affected:	200 sq ft
Fish Killed:	0
Water Supply Affected:	Not reported
Public Intake:	N
Incident Status:	Not reported
Facility ID:	200406187
Incident Date:	06/22/2004
Report Date:	06/22/2004
Material:	ANHYDROUS AMMONIA
Spill Source:	Industrial
Recovered Amount:	Not reported
Recovered Units:	Not reported
Spilled Amount:	300
Spilled Units:	P
Contained:	Not reported
Water Affected:	Not reported
Spill Type:	Air
Area Affected:	ATMOSPHERE
Fish Killed:	Not reported
Water Supply Affected:	Not reported
Public Intake:	N
Incident Status:	Not reported
Facility ID:	200410001
Incident Date:	10/01/2004
Report Date:	10/01/2004
Material:	BIOSOLIDS
Spill Source:	Not reported
Recovered Amount:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

Recovered Units: Not reported  
Spilled Amount: Not reported  
Spilled Units: Not reported  
Contained: Not reported  
Water Affected: HAW CREEK  
Spill Type: Spill  
Area Affected: SEVERAL HUNDRED YARDS  
Fish Killed: Not reported  
Water Supply Affected: NA  
Public Intake: Y  
Incident Status: Not reported

Facility ID: 199703098  
Incident Date: 03/18/1997  
Report Date: 03/18/1997  
Material: Anhydrous Ammonia  
Spill Source: Industrial  
Recovered Amount: U  
Recovered Units: 0  
Spilled Amount: 125  
Spilled Units: P  
Contained: N  
Water Affected: None  
Spill Type: Air  
Area Affected: Compressor Room  
Fish Killed: 0  
Water Supply Affected: Not reported  
Public Intake: N  
Incident Status: Not reported

**AIRS:**

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Brooke Haldeman  
Responsible Official Phone: 317-234-5176  
SIC Code: 2011  
Permit ID: 005-37006-00076  
Permit Level: MSOP  
Subtype Qualifier: Administrative Amendment  
Issue Date: 05/11/2016  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 03/28/2016  
Application Received End Date: Not reported  
Public Notice Begins Start Date: Not reported  
Public Notice Begins End Date: Not reported  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Curtis Taylor  
Responsible Official Phone: 317-234-5176  
SIC Code: 2011  
Permit ID: 005-34654-00076  
Permit Level: MSOP  
Subtype Qualifier: Administrative Amendment

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

Issue Date: 07/21/2014  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 06/20/2014  
Application Received End Date: Not reported  
Public Notice Begins Start Date: Not reported  
Public Notice Begins End Date: Not reported  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Marcia Earl  
Responsible Official Phone: 317-233-0863  
SIC Code: 2011  
Permit ID: 005-32020-00076  
Permit Level: MSOP  
Subtype Qualifier: Minor Permit Revision  
Issue Date: 08/02/2012  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 06/15/2012  
Application Received End Date: Not reported  
Public Notice Begins Start Date: Not reported  
Public Notice Begins End Date: Not reported  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Sarah Conner  
Responsible Official Phone: 317-234-6555  
SIC Code: 2011  
Permit ID: 005-28816-00076  
Permit Level: MSOP  
Subtype Qualifier: Minor Permit Revision  
Issue Date: 01/22/2010  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 12/28/2009  
Application Received End Date: Not reported  
Public Notice Begins Start Date: Not reported  
Public Notice Begins End Date: Not reported  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Pam Way  
Responsible Official Phone: 317-233-6878  
SIC Code: 2011  
Permit ID: 005-25837-00076  
Permit Level: MSOP  
Subtype Qualifier: Notice-Only Change - Permit Term Extension  
Issue Date: 02/01/2008  
End Date: Not reported  
Source Contact: Mr. Bill Jones

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

Application Received Start Date: 01/03/2008  
Application Received End Date: Not reported  
Public Notice Begins Start Date: Not reported  
Public Notice Begins End Date: Not reported  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Janet Mobley  
Responsible Official Phone: 317-234-5373  
SIC Code: 2011  
Permit ID: 005-23545-00076  
Permit Level: MSOP  
Subtype Qualifier: Renewal  
Issue Date: 06/22/2007  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 08/23/2006  
Application Received End Date: Not reported  
Public Notice Begins Start Date: 05/08/2007  
Public Notice Begins End Date: 06/07/2007  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Eastern Research Group  
Responsible Official Phone: 919-468-7800  
SIC Code: 2011  
Permit ID: 005-18868-00076  
Permit Level: MSOP  
Subtype Qualifier: Notice-Only Change  
Issue Date: 06/11/2004  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 04/16/2004  
Application Received End Date: Not reported  
Public Notice Begins Start Date: Not reported  
Public Notice Begins End Date: Not reported  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Eastern Research Group  
Responsible Official Phone: 919-468-7800  
SIC Code: 2011  
Permit ID: 005-16742-00076  
Permit Level: MSOP  
Subtype Qualifier: Significant Permit Revision (Minor PSD/EO) (120)  
Issue Date: 05/16/2003  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 01/30/2003  
Application Received End Date: Not reported  
Public Notice Begins Start Date: 04/05/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

Public Notice Begins End Date: 05/05/2003  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported  
  
Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Eastern Research Group  
Responsible Official Phone: 919-468-7800  
SIC Code: 2011  
Permit ID: 005-14899-00076  
Permit Level: MSOP  
Subtype Qualifier: New Construction MSOP (Minor PSD/EO) (120)  
Issue Date: 03/05/2002  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 09/11/2001  
Application Received End Date: Not reported  
Public Notice Begins Start Date: 01/25/2002  
Public Notice Begins End Date: 02/25/2002  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

Status: Issued  
Source ID: 005-00076  
Responsible Official Name: Yan Ting Yang  
Responsible Official Phone: 800-451-6027  
SIC Code: 2011  
Permit ID: 005-5885-00076 (No Electronic File Exists)  
Permit Level: Construction  
Subtype Qualifier: State  
Issue Date: 09/11/1996  
End Date: Not reported  
Source Contact: Mr. Bill Jones  
Application Received Start Date: 05/15/1996  
Application Received End Date: Not reported  
Public Notice Begins Start Date: 07/02/1996  
Public Notice Begins End Date: 08/01/1996  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

**NPDES:**

Permit Number: INRM00518  
Primary Facility Sic Code: 2011  
Major/Minor: Minor  
Primary Facility Sic Desc: Meat Packing Plants  
Facility Type Desc: Privately Owned Facility  
Permit Status Desc: Effective  
Issue Date: 03/12/2017  
Expired Date: 03/11/2022  
Effective Date: 03/12/2017  
Terminated Date: Not reported  
DMR Cognizant Official: Not reported  
DMR Cognizant Telephone: Not reported  
Waterbody: Not reported  
Total Actual Average Flow (MGD): Not reported  
Total App. Design Flow (MGD): Not reported  
FRS HUC Code: 05120205

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIAH FOODS INCORPORATED (Continued)**

**S107705921**

Latitude In Decimal Degrees: 39.197521  
Longitude In Decimal Degrees: -85.909096

**NPDES:**

Permit Number: INRM00518  
Permit Name: Mariah Foods Inc  
Physical Address Line 1: 1333 Indiana Ave  
Physical Address Line 2: Not reported  
Address City: Columbus  
Address State: IN  
Address Zip: 47201  
Address County: Bartholomew  
Master Facility Name: Not reported  
Permit Group: NPDES - GP Industrial Storm Water  
Comments: IN-NPDES

**TIER 2:**

Facility Id: Not reported  
SIC Code: Not reported  
Chemical Name: Not reported  
Chemical Info: CAS Num: Chemical Id: Submission Code:  
More Chemical Info: Max Daily Amt: Quantity: Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt:

Facility Id: Not reported  
SIC Code: Not reported  
Chemical Name: Not reported  
Chemical Info: CAS Num: Chemical Id: Submission Code:  
More Chemical Info: Max Daily Amt: Quantity: Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt:

Facility Id: Not reported

**42**  
**SW**  
**1/8-1/4**  
**0.202 mi.**  
**1066 ft.**

**COLUMBUS WASTE WATER TREATMENT PLANT**  
**327 WATER ST**  
**COLUMBUS, IN 47201**

**IN UST** **1004486968**  
**FINDS** **N/A**  
**ECHO**

**Relative:**  
**Lower**  
**Actual:**  
**615 ft.**

**UST:**

Facility ID: 3398  
Owner Id: 954  
Company Name: Columbus City Utilities  
Mailing Address: 1111 McClure Rd Po Box 1987  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 472021987

Tank Number: 1  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 1000  
Substance Desc: Diesel  
Closed Date: 01/01/1992

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS WASTE WATER TREATMENT PLANT (Continued)**

**1004486968**

Tank Number: 2  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 4000  
Substance Desc: Gasoline  
Closed Date: 01/01/1992

Tank Number: 3  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 8000  
Substance Desc: Gasoline  
Closed Date: 01/01/1992

Tank Number: 4  
**Tank Status:** **Unregulated (not billed)**  
Install Date: Not reported  
Tank Capacity: 8000  
Substance Desc: Hazardous Petro  
Closed Date: Not reported

Tank Number: 5  
**Tank Status:** **Unregulated (not billed)**  
Install Date: Not reported  
Tank Capacity: 20000  
Substance Desc: Hazardous Petro  
Closed Date: Not reported

**FINDS:**

Registry ID: 110000569590

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

**STATE MASTER**

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS WASTE WATER TREATMENT PLANT (Continued)**

**1004486968**

certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1004486968  
Registry ID: 110000569590  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000569590>

**J43**  
**WNW**  
**1/8-1/4**  
**0.213 mi.**  
**1122 ft.**

**SEARS AUTO CENTER 6160**  
**222 COURTHOUSE CTR**  
**COLUMBUS, IN 47201**

**IN UST** **U004124117**  
**N/A**

**Site 1 of 2 in cluster J**

**Relative:**  
**Higher**  
**Actual:**  
**629 ft.**

**UST:**  
Facility ID: 14021  
Owner Id: 907  
Company Name: Courthouse Center Shopping Mall  
Mailing Address: 332 Courthouse Center  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201  
  
Tank Number: 1  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Used Oil  
Closed Date: 06/27/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

44  
North  
1/8-1/4  
0.219 mi.  
1157 ft.

E. COHN CO.  
715 5TH ST  
COLUMBUS, IN 47201

IN SWRCY

S121116734  
N/A

Relative:  
Higher

Actual:  
630 ft.

SWRCY:

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: 706 322-6567  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E. COHN CO. (Continued)**

**S121116734**

Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: ,Metals  
Hours of Operation: 7-4:30, M-F  
Hazardous Waste: Not reported  
E Scrap: Not reported

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

45  
NNW  
1/8-1/4  
0.228 mi.  
1202 ft.

**FIRST CHRISTIAN CHURCH**  
**531 5TH ST**  
**COLUMBUS, IN 47201**

**IN UST** **U003950732**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**630 ft.**

UST:

Facility ID: 1965  
Owner Id: 959  
Company Name: First Christian Church  
Mailing Address: Po Box 404  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47202

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 8000  
Substance Desc: Unknown  
Closed Date: 05/01/1989

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 5000  
Substance Desc: Diesel  
Closed Date: 12/31/1970

J46  
WNW  
1/8-1/4  
0.236 mi.  
1248 ft.

**COMMONS MALL**  
**332 COMMONS MALL**  
**COLUMBUS, IN 47201**

**IN AUL** **S109408569**  
**IN BROWNFIELDS** **N/A**

**Site 2 of 2 in cluster J**

**Relative:**  
**Higher**  
**Actual:**  
**628 ft.**

AUL:

IC TYPE: Environmental Restrictive Covenant  
Facility Id: 4080902  
Program Area: Brownfields  
Affected Media: Subsurface Soil  
Date Ic Recorded: 07/15/2009  
Description: Document number: 200800008965 Source: Website-GIS  
Control Method A: Agricultural or Food Crop  
Coverage A: Portion of Property  
Chemicals Of Concern A: PAH - Polynuclear Aromatic Hydrocarbons; TPH - Total Petroleum Hydrocarbons  
Comments A: Not reported  
Control Method B: Excavation Notice Required  
Coverage B: Portion of Property  
Chemicals Of Concern B: PAH - Polynuclear Aromatic Hydrocarbons; TPH - Total Petroleum Hydrocarbons  
Comments B: Not reported  
Control Method C: Not reported  
Coverage C: Not reported  
Chemicals Of Concern C: Not reported  
Comments C: Not reported  
Control Method D: Not reported  
Coverage D: Not reported  
Chemicals Of Concern D: Not reported  
Comments D: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COMMONS MALL (Continued)**

**S109408569**

Control Method E:	Not reported
Coverage E:	Not reported
Chemicals Of Concern E:	Not reported
Comments E:	Not reported
Control Method F:	Not reported
Coverage F:	Not reported
Chemicals Of Concern F:	Not reported
Comments F:	Not reported
Control Method G:	Not reported
Coverage G:	Not reported
Chemicals Of Concern G:	Not reported
Comments G:	Not reported
Control Method H:	Not reported
Coverage H:	Not reported
Chemicals Of Concern H:	Not reported
Comments H:	Not reported
Control Method I:	Not reported
Coverage I:	Not reported
Chemicals Of Concern I:	Not reported
Comments I:	Not reported

**IN BROWNFIELD:**

Facility ID:	4080902
Project Manager:	Kyle Hendrix
AI Id:	9754
Financial Assistance:	Not reported
Other Assistance:	Site Status Letter 2/27/2009
ERC Not Required:	Yes
Land Use Restriction:	No residential, agriculture, excavation in the affected area (TPH-ERO and PAHs in soils)
Recordation Date or Letter:	7/15/2009

47  
NNE  
1/8-1/4  
0.237 mi.  
1250 ft.

912 5TH ST  
COLUMBUS, IN 47201

IN OISC S121317166  
N/A

Relative:  
Higher  
Actual:  
628 ft.

OISC:	
Name:	OISC
Physical Address:	Not reported
Mailing Address:	912 5TH ST
Phone:	812-371-9315
EMail:	Not reported
Applicator Name:	TIMOTHY SHAWN MCNEALY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**K48**      **IND BELL TEL CO CUMMINS ENGINE CO**  
**NNE**      **1000 5TH ST**  
**1/8-1/4**      **COLUMBUS, IN 47201**  
**0.241 mi.**  
**1270 ft.**      **Site 1 of 4 in cluster K**

**RCRA NonGen / NLR**      **1000104348**  
**IN MANIFEST**      **INT190014134**

**Relative:**  
**Higher**

RCRA NonGen / NLR:

**Actual:**  
**627 ft.**

Date form received by agency: 05/19/1981  
Facility name: IND BELL TEL CO CUMMINS ENGINE CO  
Facility address: 1000 5TH ST  
COLUMBUS, IN 47201  
EPA ID: INT190014134  
Mailing address: 220 N MERIDIAN ST RM 890  
INDIANAPOLIS, IN 46204  
Contact: JOHN OSBORN  
Contact address: 220 N MERIDIAN ST RM 890  
INDIANAPOLIS, IN 46204  
Contact country: US  
Contact telephone: 317-265-7893  
Contact email: Not reported  
EPA Region: 05  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: INDIANA BELL TELEPHONE CO INC  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998  
Owner/operator country: Not reported  
Owner/operator telephone: 312-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NAME NOT REPORTED  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998  
Owner/operator country: Not reported  
Owner/operator telephone: 312-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IND BELL TEL CO CUMMINS ENGINE CO (Continued)**

**1000104348**

On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**IN MANIFEST:**

Year: Not reported  
EPA ID: INT190014134  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

**Manifest Handler:**

EPA Id #: INT190014134  
Generator Type: Not reported  
Generator Status: No longer a generator of hazardous wastes  
Transporter Type: Code no longer valid  
Transporter Status: Non Active  
TSD Type: Not reported  
TSD Status: Not reported  
Handler Mailing Address: 220 N MERIDIAN ST RM 890  
Handler Mailing City/State/Zip: INDIANAPOLIS, IN 46204  
Contact Name: JOHN R OSBORN  
Contact Telephone: 317-265-7893  
Contact Type: A

Year: Not reported  
EPA ID: INT190014134  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: Not reported  
EPA ID: INT190014134  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IND BELL TEL CO CUMMINS ENGINE CO (Continued)

1000104348

Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

K49  
NNE  
1/8-1/4  
0.241 mi.  
1270 ft.

CUMMINS ENGINE PLANT  
1000 5TH ST  
COLUMBUS, IN 47201

IN LUST  
IN UST  
IN SPILLS

1000300152  
N/A

Site 2 of 4 in cluster K

Relative:  
Higher

LUST:

Actual:  
627 ft.

Facility ID: 11666  
Incident Number: 199008548  
Description: NFA-Unconditional Closure  
Priority: Medium

Facility ID: 11666  
Incident Number: 198910067  
Description: NFA-Unconditional Closure  
Priority: Low

Facility ID: 11666  
Incident Number: 198904019  
Description: NFA-Unconditional Closure  
Priority: Medium

Facility ID: 11666  
Incident Number: 199501536  
Description: NFA-Unconditional Closure  
Priority: Medium

Facility ID: 11666  
Incident Number: 199607525  
Description: NFA-Unconditional Closure  
Priority: Low

Facility ID: 11666  
Incident Number: 199609507  
Description: NFA-Unconditional Closure  
Priority: Low

UST:

Facility ID: 11666  
Owner Id: 956  
Company Name: Cummins Incorporated  
Mailing Address: PO Box 3005 M/C 60113  
Mailing Address 2: Not reported  
Mailing City, St, Zip: Columbus, IN 472023005

Tank Number: 1  
Tank Status: Permanently Out of Service  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: 12/15/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE PLANT (Continued)**

**1000300152**

Tank Number: 10  
**Tank Status:** **Permanently Out of Service**  
Install Date: 06/01/1960  
Tank Capacity: 20000  
Substance Desc: Diesel  
Closed Date: 11/29/1990

Tank Number: 11  
**Tank Status:** **Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: 06/15/1994

Tank Number: 12  
**Tank Status:** **Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 13  
**Tank Status:** **Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 14  
**Tank Status:** **Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 15  
**Tank Status:** **Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 16  
**Tank Status:** **Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 17

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE PLANT (Continued)**

**1000300152**

**Tank Status:** Permanently Out of Service  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Used Oil  
Closed Date: 12/15/1994

Tank Number: 18  
**Tank Status:** Permanently Out of Service  
Install Date: 06/01/1972  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 19  
**Tank Status:** Permanently Out of Service  
Install Date: 06/01/1972  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 2  
**Tank Status:** Permanently Out of Service  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 20  
**Tank Status:** Currently in use  
Install Date: 08/15/1991  
Tank Capacity: 10500  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 21  
**Tank Status:** Currently in use  
Install Date: 10/15/1991  
Tank Capacity: 5000  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 22  
**Tank Status:** Currently in use  
Install Date: 10/15/1991  
Tank Capacity: 15800  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 23  
**Tank Status:** Currently in use



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE PLANT (Continued)**

**1000300152**

Install Date: 10/15/1991  
Tank Capacity: 40000  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 24  
**Tank Status: Currently in use**  
Install Date: 10/15/1991  
Tank Capacity: 9600  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 25  
**Tank Status: Currently in use**  
Install Date: 10/15/1991  
Tank Capacity: 6100  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 26  
**Tank Status: Currently in use**  
Install Date: 10/15/1991  
Tank Capacity: 15800  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 27  
**Tank Status: Currently in use**  
Install Date: 10/15/1991  
Tank Capacity: 15900  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 28  
**Tank Status: Currently in use**  
Install Date: 10/15/1991  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 29  
**Tank Status: Currently in use**  
Install Date: 10/15/1991  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 3  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1972

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE PLANT (Continued)**

**1000300152**

Tank Capacity: 10000  
Substance Desc: Used Oil  
Closed Date: 11/29/1990

Tank Number: 30  
**Tank Status: Currently in use**  
Install Date: 08/15/1991  
Tank Capacity: 8000  
Substance Desc: Diesel  
Closed Date: Not reported

Tank Number: 31  
**Tank Status: Currently in use**  
Install Date: 08/15/1991  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: Not reported

Tank Number: 4  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1963  
Tank Capacity: 2000  
Substance Desc: Gasoline  
Closed Date: 05/20/1996

Tank Number: 5  
**Tank Status: Permanently Out of Service**  
Install Date: 04/01/1959  
Tank Capacity: 10000  
Substance Desc: Diesel  
Closed Date: 01/29/1990

Tank Number: 6  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 8000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 7  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1972  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: 12/15/1994

Tank Number: 8  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1960  
Tank Capacity: 10000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE PLANT (Continued)**

**1000300152**

Substance Desc: Other  
Closed Date: 11/29/1990

Tank Number: 9  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1960  
Tank Capacity: 5000  
Substance Desc: Other  
Closed Date: 11/29/1990

**SPILL:**

Facility ID: 199012031  
Incident Date: 12/06/1990  
Report Date: 12/07/1990  
Material: Fuel Oils And Waste Oils  
Spill Source: Industrial  
Recovered Amount: G  
Recovered Units: 0  
Spilled Amount: 0  
Spilled Units: G  
Contained: Y  
Water Affected: Ground  
Spill Type: Spill  
Area Affected: Undetermined  
Fish Killed: 0  
Water Supply Affected: Not reported  
Public Intake: N  
Incident Status: Not reported

**K50**  
**NNE**  
**1/8-1/4**  
**0.241 mi.**  
**1270 ft.**

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT**  
**500 CENTRAL AVE**  
**COLUMBUS, IN 47201**  
  
**Site 3 of 4 in cluster K**

**RCRA-CESQG 1015757548**  
**PADS IND990849770**  
**IN MANIFEST**

**Relative:**  
**Higher**

**RCRA-CESQG:**

**Actual:**  
**627 ft.**

Date form received by agency: 12/14/2012  
Facility name: CUMMINS INCORPORATED COLUMBUS ENGINE PLANT  
Facility address: 500 CENTRAL AVE  
COLUMBUS, IN 47201  
EPA ID: IND990849770  
Mailing address: PO BOX 3005 MC 16003  
COLUMBUS, IN 47202-3005  
Contact: MARK SLATON  
Contact address: CENTRAL AVE  
COLUMBUS, IN 47201  
Contact country: US  
Contact telephone: 812-377-8867  
Contact email: MARK.J.SLATON@CUMMINS.COM  
EPA Region: 05  
Land type: Private  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: CUMMINS INC  
Owner/operator address: PO BOX 3005  
COLUMBUS, IN 47202  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/1900  
Owner/Op end date: Not reported

Owner/operator name: CUMMINS INC  
Owner/operator address: PO BOX 3005  
COLUMBUS, IN 47202  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/01/1900  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: Yes  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Waste code: D009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

. Waste name: MERCURY

Historical Generators:

Date form received by agency: 10/12/2012

Site name: CUMMINS INC COLUMBUS ENGINE PLANT

Classification: Large Quantity Generator

. Waste code: D009

. Waste name: MERCURY

Date form received by agency: 10/08/2009

Site name: CUMMINS INC COLUMBUS ENGINE PLANT

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/01/2008

Site name: CUMMINS INC COLUMBUS ENGINE PLANT

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/07/2008

Site name: CUMMINS INC COLUMBUS ENGINE PLT ONE

Classification: Large Quantity Generator

Date form received by agency: 03/26/2004

Site name: CUMMINS INC COLUMBUS ENGINE PLT ONE

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/21/2003

Site name: CUMMINS INC COLUMBUS ENGINE (PLT ONE)

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/29/2003

Site name: CUMMINS INC COLUMBUS ENGINE (PLT ONE)

Classification: Large Quantity Generator

Date form received by agency: 01/30/2002

Site name: CUMMINS INC COLUMBUS ENGINE (PLT ONE)

Classification: Large Quantity Generator

. Waste code: D000

. Waste name: Not Defined

. Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: F001

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE  
SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F017  
. Waste name: Not Defined

Date form received by agency: 01/30/2002  
Site name: CUMMINS INC COLUMBUS ENGINE PLT ONE  
Classification: Large Quantity Generator

Date form received by agency: 03/23/2001  
Site name: CUMMINS ENGINE COMPANY, INC. PLT. 1  
Classification: Large Quantity Generator

Date form received by agency: 04/17/2000  
Site name: CUMMINS INC COLUMBUS ENGINE (PLT ONE)  
Classification: Large Quantity Generator

Date form received by agency: 05/11/1998  
Site name: CUMMINS ENGINE CO PLT 1  
Classification: Large Quantity Generator

Date form received by agency: 02/28/1996  
Site name: CUMMINS ENGINE CO.,INC.PLT.# 1  
Classification: Large Quantity Generator

Date form received by agency: 02/21/1994  
Site name: CUMMINS ENGINE CO INC  
Classification: Large Quantity Generator

Date form received by agency: 02/10/1992  
Site name: CUMMINS ENGINE COMPANY INC  
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990  
Site name: CUMMINS ENGINE COMPANY, INC.  
Classification: Large Quantity Generator

**Facility Has Received Notices of Violations:**

Regulation violated: Not reported  
Area of violation: Used Oil - Generators  
Date violation determined: 12/15/2016  
Date achieved compliance: 01/20/2017  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/20/2017  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 01/20/2017  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 04/15/1997  
Date achieved compliance: 07/24/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 07/24/1997  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 11/29/1995  
Date achieved compliance: 12/15/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/15/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 02/20/1995  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/15/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Manifest  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/17/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 9625  
Paid penalty amount: 9625

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/17/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 09/17/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 9625  
Final penalty amount: 19975  
Paid penalty amount: 19975

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Enforcement action date: 09/17/1991  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 9625  
Paid penalty amount: 9625

Regulation violated: Not reported  
Area of violation: Generators - Manifest  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 9625  
Final penalty amount: 19975  
Paid penalty amount: 19975

Regulation violated: Not reported  
Area of violation: Generators - Pre-transport  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 9625  
Paid penalty amount: 9625

Regulation violated: Not reported  
Area of violation: Generators - Records/Reporting  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/01/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 9625  
Final penalty amount: 19975  
Paid penalty amount: 19975

Regulation violated: FR - 40 cfr 268.7  
Area of violation: LDR - General  
Date violation determined: 12/14/1990  
Date achieved compliance: 03/17/1992  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General Facility Standards  
Date violation determined: 12/14/1990  
Date achieved compliance: 09/05/1995  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 02/01/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 9625  
Final penalty amount: 19975  
Paid penalty amount: 19975

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 11/20/1984  
Date achieved compliance: 07/10/1986  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 01/17/1985  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 14300  
Final penalty amount: 14300  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 11/20/1984  
Date achieved compliance: 07/10/1986  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 03/19/1985  
Enf. disposition status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 12/15/2016  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Used Oil - Generators  
Date achieved compliance: 01/20/2017  
Evaluation lead agency: State

Evaluation date: 09/18/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/07/2002  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 02/17/2000  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 07/24/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 07/24/1997  
Evaluation lead agency: State

Evaluation date: 06/10/1997  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 07/24/1997  
Evaluation lead agency: State

Evaluation date: 04/15/1997  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 07/24/1997  
Evaluation lead agency: State

Evaluation date: 11/29/1995  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 11/29/1995  
Evaluation: FOCUSED COMPLIANCE INSPECTION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Area of violation:	Generators - Pre-transport
Date achieved compliance:	12/15/1995
Evaluation lead agency:	State
Evaluation date:	08/17/1995
Evaluation:	COMPLIANCE SCHEDULE EVALUATION
Area of violation:	Generators - Pre-transport
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	06/13/1995
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Generators - Pre-transport
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	06/13/1995
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Generators - Records/Reporting
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	06/13/1995
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Generators - Manifest
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	06/13/1995
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	TSD - General Facility Standards
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	02/20/1995
Evaluation:	COMPLIANCE SCHEDULE EVALUATION
Area of violation:	Generators - Manifest
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	02/20/1995
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - Pre-transport
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	10/29/1994
Evaluation:	CASE DEVELOPMENT INSPECTION
Area of violation:	Generators - Manifest
Date achieved compliance:	09/05/1995
Evaluation lead agency:	State
Evaluation date:	12/14/1990
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	LDR - General
Date achieved compliance:	03/17/1992
Evaluation lead agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Evaluation date: 12/14/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 09/05/1995  
Evaluation lead agency: State

Evaluation date: 12/14/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General Facility Standards  
Date achieved compliance: 09/05/1995  
Evaluation lead agency: State

Evaluation date: 12/14/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 09/05/1995  
Evaluation lead agency: State

Evaluation date: 12/14/1990  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Manifest  
Date achieved compliance: 09/05/1995  
Evaluation lead agency: State

Evaluation date: 11/20/1984  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 07/10/1986  
Evaluation lead agency: State

**PADS:**

EPAID: IND990849770  
Facility name: PLANT ONE  
Facility Address: 1000 FIFTH STREET  
COLUMBUS, IN 47201  
Facility country: US  
Generator: Yes  
Storer: No  
Transporter: No  
Disposer: No  
Research facility: No  
Smelter: No  
Facility owner name: CUMMINS ENGINE COMPANY, INC  
Contact title: Not reported  
Contact name: MARK SLATON  
Contact tel: 812-377-8867  
Contact extension: Not reported  
Contact Email: Not reported  
Mailing address: PO BOX 3005  
COLUMBUS, IN 47202-3005  
Mailing country: US  
Cert. date: 12/11/1998

**IN MANIFEST:**

Year: Not reported  
EPA ID: IND990849770  
Tons Generated: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

**Manifest Handler:**

EPA Id #: IND990849770  
Generator Type: CEG  
Generator Status: Active Handler  
Transporter Type: Code no longer valid  
Transporter Status: Non Active  
TSD Type: Not reported  
TSD Status: Not reported  
Handler Mailing Address: PO BOX 3005 MC 16003  
Handler Mailing City/State/Zip: COLUMBUS, IN 47202-3005  
Contact Name: MARK SLATON  
Contact Telephone: 812-377-8887  
Contact Type: Fees Contact

EPA Id #: IND990849770  
Generator Type: CEG  
Generator Status: Active Handler  
Transporter Type: Code no longer valid  
Transporter Status: Non Active  
TSD Type: Not reported  
TSD Status: Not reported  
Handler Mailing Address: PO BOX 3005 MC 16003  
Handler Mailing City/State/Zip: COLUMBUS, IN 47202-3005  
Contact Name: MARK SLATON-MC16003  
Contact Telephone: 812-377-8867  
Contact Type: Environmental Coordinator

Year: Not reported  
EPA ID: IND990849770  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: Not reported  
EPA ID: IND990849770  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS INCORPORATED COLUMBUS ENGINE PLANT (Continued)**

**1015757548**

Management code: Not reported  
Management Desc: Not reported

**K51  
NNE  
1/8-1/4  
0.241 mi.  
1270 ft.**

**CUMMINS ENGINE COMPANY INCORPORATED  
1000 FIFTH ST  
COLUMBUS, IN 47201**

**IN IND WASTE  
IN TIER 2**

**S108531805  
N/A**

**Site 4 of 4 in cluster K**

**Relative:  
Higher**

IND WASTE:

**Actual:  
627 ft.**

Regulatory: IND990849770  
Program: HW  
Reference: Access Point  
Date Data Collect: 06/18/2002  
Object ID: 221953

TIER 2:

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 29  
Chemical Info: CAS Num:999029 Chemical Id:6317 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in cylinders Storage Loc2:recv'd in drums Storage  
Loc3:chillers, bldg 60B Storage Loc4refrigerants Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 16  
Chemical Info: CAS Num:999016 Chemical Id:6231 Submission Code:312  
More Chemical Info: Max Daily Amt: 02 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:received in 55 gal drums Storage Loc2:used in boiler/lines  
Storage Loc3: Storage Loc4 Max Daily Amt: 02

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Propane  
Chemical Info: CAS Num:74986 Chemical Id:5001 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:outside storage, fork truck fuel Storage Loc2: Storage  
Loc3: Storage Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 14  
Chemical Info: CAS Num:999014 Chemical Id:6229 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:tote outside boiler room Storage Loc2:boiler lines Storage  
Loc3:Drew- Advantage Plus 1400 Storage Loc4 Max Daily Amt: 03

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE COMPANY INCORPORATED (Continued)**

**S108531805**

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Fuel Oil no. 2-D  
Chemical Info: CAS Num:68476346 Chemical Id:5086 Submission Code:312  
More Chemical Info: Max Daily Amt: 05 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd in bulk, tank 2 Storage Loc2:engine testing process  
Storage Loc3: Storage Loc4 Max Daily Amt: 05

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 28  
Chemical Info: CAS Num:999028 Chemical Id:6316 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd 55 gal drums Storage Loc2: Storage Loc3: Storage  
Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 37  
Chemical Info: CAS Num:999037 Chemical Id:6381 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc: Storage Loc2:tank 8 Storage Loc3:used oil Storage Loc4  
Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 13  
Chemical Info: CAS Num:999013 Chemical Id:6228 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:delivered in55 gal drums Storage Loc2:used in Apex Block  
and Head lines Storage Loc3:Crescent 2153 Storage Loc4 Max Daily Amt:  
03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 27  
Chemical Info: CAS Num:999027 Chemical Id:6315 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd 55 gal drums Storage Loc2:various machines Storage  
Loc3:Misc Oils and Greases Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Sodium Hydroxide  
Chemical Info: CAS Num:1310732 Chemical Id:5006 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE COMPANY INCORPORATED (Continued)**

**S108531805**

Storage Info: Storage Loc:recv'd in bulk, tanks 52,53 Storage Loc2: Storage Loc3:  
Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 25  
Chemical Info: CAS Num:999025 Chemical Id:6287 Submission Code:312  
More Chemical Info: Max Daily Amt: 06 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in tanks 33,34,35,36 Storage Loc2:Industrial  
wastewater Storage Loc3: Storage Loc4 Max Daily Amt: 06

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 22  
Chemical Info: CAS Num:999022 Chemical Id:6250 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:bldg 30/61 area Storage Loc2:lg. coolant pits for heads  
and blocks Storage Loc3:Henkel Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 33  
Chemical Info: CAS Num:999033 Chemical Id:6321 Submission Code:312  
More Chemical Info: Max Daily Amt: 02 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:apex head line Storage Loc2:Rustek 262 Storage Loc3:  
Storage Loc4 Max Daily Amt: 02

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 15  
Chemical Info: CAS Num:999015 Chemical Id:6230 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:received in 55 gal drums Storage Loc2:300 gal tote Storage  
Loc3:used in Process and HVAC tower ce Storage Loc4Drew- 2305 Max  
Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 24  
Chemical Info: CAS Num:999024 Chemical Id:6286 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in drums Storage Loc2:hydraulic tanks Storage  
Loc3:Humble 68 Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE COMPANY INCORPORATED (Continued)**

**S108531805**

Chemical Name: Perlite  
Chemical Info: CAS Num:93763703 Chemical Id:5028 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 18  
Chemical Info: CAS Num:999018 Chemical Id:6246 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd in 55 gal drums Storage Loc2:tank by dyno Storage Loc3:dyno water supply Storage Loc4Drew- Drewsphere 739 Antifoulant Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Sodium Hypo Chloride  
Chemical Info: CAS Num:7681529 Chemical Id:5002 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd 300 gal totes, stored in tower pump Storage Loc2:cooling tower water Storage Loc3:clean DAF Storage Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 30  
Chemical Info: CAS Num:999030 Chemical Id:6318 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd 55 gal drums Storage Loc2:NEI- 1883 WWT Anionic Polymer Storage Loc3: Storage Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 35  
Chemical Info: CAS Num:999035 Chemical Id:6358 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd 300 gal totes Storage Loc2:apex wash area Storage Loc3:Producto Soap Storage Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 17  
Chemical Info: CAS Num:999017 Chemical Id:6235 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:rcv'd in 55 gal drums Storage Loc2:tank by dyno Storage

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE COMPANY INCORPORATED (Continued)**

**S108531805**

Loc3:dyno water supply Storage Loc4Glutaraldehyde Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Gasoline  
Chemical Info: CAS Num:8006619 Chemical Id:5059 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd bulk Storage Loc2:tank 8 Storage Loc3: Storage Loc4  
Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 23  
Chemical Info: CAS Num:999023 Chemical Id:6285 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in refillable totes Storage Loc2:hydraulic tanks  
Storage Loc3:Humble 46 oil Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Ethylene glycol  
Chemical Info: CAS Num:107211 Chemical Id:406 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd 55 gal drums Storage Loc2:recv'd 55 gal drums  
Storage Loc3: Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 20  
Chemical Info: CAS Num:999020 Chemical Id:6248 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in 55 gal drums Storage Loc2:tank by dyno Storage  
Loc3:dyno system water Storage Loc4Drew-Permax 2021A Max Daily Amt:  
03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 21  
Chemical Info: CAS Num:999021 Chemical Id:6249 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd 55 gal drums Storage Loc2:boilers/lines Storage  
Loc3:Drew Amercor Storage Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Lead

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE COMPANY INCORPORATED (Continued)**

**S108531805**

Chemical Info: CAS Num:7439921 Chemical Id:4658 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:batteries in vehicles Storage Loc2: Storage Loc3: Storage  
Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 19  
Chemical Info: CAS Num:999019 Chemical Id:6247 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in 55 gal drums Storage Loc2:pumped/recirculated in  
chilled loop Storage Loc3:Drew- Environmaz CS Storage Loc4 Max Daily  
Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 51  
Chemical Info: CAS Num:999051 Chemical Id:6395 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in 55 gal drums Storage Loc2:tank by dyno Storage  
Loc3:dyno water supply Storage Loc4Drew- Biosphere 535 Max Daily Amt:  
03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Natural Gas  
Chemical Info: CAS Num:8006142 Chemical Id:5472 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:pipework, dry off ovens, fuel Storage Loc2: Storage Loc3:  
Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 39  
Chemical Info: CAS Num:999039 Chemical Id:6383 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc: Storage Loc2:wastewater sludge Storage Loc3: Storage Loc4  
Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 31  
Chemical Info: CAS Num:999031 Chemical Id:6319 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in bulk Storage Loc2:NEI- 1734 WWT Catatonic  
Polymer Storage Loc3: Storage Loc4 Max Daily Amt: 04

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE COMPANY INCORPORATED (Continued)**

**S108531805**

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 32  
Chemical Info: CAS Num:999032 Chemical Id:6320 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc: Storage Loc2:Penetrate Ultra Liquid and Solids Storage  
Loc3: Storage Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 38  
Chemical Info: CAS Num:999038 Chemical Id:6382 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in drums Storage Loc2:apex area, bldg 55 Storage  
Loc3:Vactra 2 Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 34  
Chemical Info: CAS Num:999034 Chemical Id:6330 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in bulk, stored in tanks Storage Loc2:processed and  
stored Storage Loc3:engine testing Storage Loc4Premium Blue Lube Oil  
Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 26  
Chemical Info: CAS Num:999026 Chemical Id:6314 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd in drums Storage Loc2:soap solution in wash tanks  
Storage Loc3:International 2440 Storage Loc4 Max Daily Amt: 04

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Glutaraldehyde  
Chemical Info: CAS Num:111308 Chemical Id:5880 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:small tank in dyno area Storage Loc2:drums, chillers, bldg  
60B Storage Loc3: Storage Loc4 Max Daily Amt: 03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Other Chemical 36  
Chemical Info: CAS Num:999036 Chemical Id:6380 Submission Code:312  
More Chemical Info: Max Daily Amt: 03 Quantity: 0 Container Type:  
Location Description: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMMINS ENGINE COMPANY INCORPORATED (Continued)**

**S108531805**

Storage Info: Storage Loc:recv'd in bulk, tank 10 Storage Loc2:parts  
cleaner/degreaser Storage Loc3:Solvent 142 Storage Loc4 Max Daily Amt:  
03

Facility Id: 286  
SIC Code: 3519  
Chemical Name: Sulfuric acid  
Chemical Info: CAS Num:7664939 Chemical Id:719 Submission Code:312  
More Chemical Info: Max Daily Amt: 04 Quantity: 0 Container Type:  
Location Description: Not reported  
Storage Info: Storage Loc:recv'd 55 gal drums Storage Loc2:tank 27 Storage  
Loc3:cooling tower Storage Loc4vehicle batteries Max Daily Amt: 04

Facility Id: 286

**52**  
**SW**  
**1/8-1/4**  
**0.243 mi.**  
**1283 ft.**

**COLUMBUS CITY HALL**  
**123 WASHINGTON ST**  
**COLUMBUS, IN 47201**

**IN UST** **1004490613**  
**FINDS** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**614 ft.**

UST:  
Facility ID: 15891  
Owner Id: 897  
Company Name: City Of Columbus  
Mailing Address: 123 Washington St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status: Unregulated (not billed)**  
Install Date: Not reported  
Tank Capacity: 6000  
Substance Desc: Other  
Closed Date: Not reported

**FINDS:**

Registry ID: 110012056684

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**53**  
**WSW**  
**1/4-1/2**  
**0.262 mi.**  
**1385 ft.**

**GRIFFIN INDUSTRIES, INC.**  
**345 WATER STREET, P.O. BOX 301**  
**COLUMBUS, IN 47201**

**IN SWRCY** **S116766210**  
**N/A**

**Relative:**  
**Lower**

SWRCY:

**Actual:**  
**612 ft.**

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: (812) 379-5531  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

**54**  
**East**  
**1/4-1/2**  
**0.319 mi.**  
**1683 ft.**

**COLUMBUS FOOD MART 1**  
**1521 STATE ST**  
**COLUMBUS, IN 47201**

**IN LUST** **U004002991**  
**IN UST** **N/A**

**Relative:**  
**Higher**

LUST:

**Actual:**  
**623 ft.**

Facility ID: 223  
Incident Number: 201311515  
Description: NFA-Unconditional Closure  
Priority: Unknown

UST:

Facility ID: 223  
Owner Id: 39943  
Company Name: Black Gold Ventures Indiana LLC  
Mailing Address: 409 N Main St PO Box 476

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS FOOD MART 1 (Continued)**

**U004002991**

Mailing Address 2: Not reported  
Mailing City,St,Zip: Bluffton, IN 46714

Tank Number: 1  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 10000  
Substance Desc: Unknown  
Closed Date: 05/01/1990

Tank Number: 2  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Unknown  
Closed Date: 05/01/1990

Tank Number: 3  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 3000  
Substance Desc: Unknown  
Closed Date: 05/01/1990

Tank Number: 4  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 2000  
Substance Desc: Unknown  
Closed Date: 05/01/1990

Tank Number: 5  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 2000  
Substance Desc: Unknown  
Closed Date: 05/01/1990

Tank Number: 6  
**Tank Status:** **Currently in use**  
Install Date: 06/29/1990  
Tank Capacity: 6000  
Substance Desc: Kerosene  
Closed Date: Not reported

Tank Number: 7  
**Tank Status:** **Currently in use**  
Install Date: 06/29/1990  
Tank Capacity: 10000  
Substance Desc: Gasoline  
Closed Date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COLUMBUS FOOD MART 1 (Continued)**

**U004002991**

Tank Number: 8  
**Tank Status:** **Currently in use**  
Install Date: 06/29/1990  
Tank Capacity: 10000  
Substance Desc: Gasoline  
Closed Date: Not reported

Tank Number: 9  
**Tank Status:** **Currently in use**  
Install Date: 06/29/1990  
Tank Capacity: 10000  
Substance Desc: Gasoline  
Closed Date: Not reported

**55**  
**NW**  
**1/4-1/2**  
**0.355 mi.**  
**1876 ft.**

**CUMMINS INCORPORATED**  
**500 JACKSON ST**  
**COLUMBUS, IN 47201**

**IN LUST** **U004276287**  
**IN UST** **N/A**

**Relative:**  
**Higher**

**LUST:**  
Facility ID: 25601  
Incident Number: 201712507  
Description: NFA-Unconditional Closure  
Priority: Unknown

**Actual:**  
**626 ft.**

**UST:**  
Facility ID: 25601  
Owner Id: 956  
Company Name: Cummins Incorporated  
Mailing Address: PO Box 3005 M/C 60113  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 472023005

Tank Number: 1  
**Tank Status:** **Permanently Out of Service**  
Install Date: 01/01/1984  
Tank Capacity: 25000  
Substance Desc: Diesel  
Closed Date: 01/10/2018

**56**  
**North**  
**1/4-1/2**  
**0.401 mi.**  
**2115 ft.**

**ST BARTHOLOMEWS**  
**725-745 SYCAMORE**  
**COLUMBUS, IN 47201**

**IN BROWNFIELDS** **S118360032**  
**N/A**

**Relative:**  
**Higher**

**IN BROWNFIELD:**  
Facility ID: 4151010  
Project Manager: Andrea Robertson-Habeck  
AI Id: 111035  
Financial Assistance: Not reported  
Other Assistance: Brownfield Determination Letter 11/4/2016; Brownfield Determination Letter 10/26/2015  
ERC Not Required: NR

**Actual:**  
**631 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ST BARTHOLOMEWS (Continued)**

**S118360032**

Land Use Restriction: Not reported  
Recordation Date or Letter: Not reported

**L57**  
**NE**  
**1/4-1/2**  
**0.447 mi.**  
**2360 ft.**

**ROCKWELL AUTOMATION**  
**1225 7TH ST**  
**COLUMBUS, IN 47201**

**Site 1 of 2 in cluster L**

**IN LUST**  
**IN UST**  
**IN AIRS**  
**IN IND WASTE**

**U001079928**  
**N/A**

**Relative:**  
**Higher**

**LUST:**

**Actual:**  
**628 ft.**

Facility ID: 8133  
Incident Number: 199508536  
Description: NFA-Unconditional Closure  
Priority: Medium

Facility ID: 8133  
Incident Number: 199408504  
Description: NFA-Unconditional Closure  
Priority: Low

**UST:**

Facility ID: 8133  
Owner Id: 936  
Company Name: Reliance Electric Co  
Mailing Address: 1225 7th St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: 07/01/1981  
Tank Capacity: 2000  
Substance Desc: Other  
Closed Date: 07/28/1994

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: 01/01/1981  
Tank Capacity: 5000  
Substance Desc: Other  
Closed Date: 08/21/1995

Tank Number: 3  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 10000  
Substance Desc: Used Oil  
Closed Date: Not reported

**AIRS:**

Status: Withdrawn  
Source ID: 005-00004  
Responsible Official Name: Enviroplan Consulting  
Responsible Official Phone: 973-575-2555  
SIC Code: 3568

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**U001079928**

Permit ID: 005-14956-00004 (No Electronic File Exists)  
Permit Level: Registration  
Subtype Qualifier: Not reported  
Issue Date: Not reported  
End Date: Not reported  
Source Contact: Jason Koester  
Application Received Start Date: 10/24/2001  
Application Received End Date: Not reported  
Public Notice Begins Start Date: Not reported  
Public Notice Begins End Date: Not reported  
Proposed Internet Upload Start Date: Not reported  
Proposed Internet Upload End Date: Not reported

**IND WASTE:**

Regulatory: IND004454906  
Program: HW  
Reference: Access Point  
Date Data Collect: Not reported  
Object ID: 223145

**L58  
NE  
1/4-1/2  
0.447 mi.  
2360 ft.**

**ROCKWELL AUTOMATION  
1225 7TH ST  
COLUMBUS, IN 47201**

**IN BROWNFIELDS  
RCRA NonGen / NLR  
IN MANIFEST**

**1000245972  
IND004454906**

**Site 2 of 2 in cluster L**

**Relative:  
Higher  
Actual:  
628 ft.**

**IN BROWNFIELD:**

Facility ID: 4030046  
Project Manager: Andrea Robertson-Habeck  
AI Id: 624  
Financial Assistance: Assessment Grant applicant 10/1/2003  
Other Assistance: Not reported  
ERC Not Required: NR  
Land Use Restriction: Not reported  
Recordation Date or Letter: Not reported

**RCRA NonGen / NLR:**

Date form received by agency: 02/24/2005  
Facility name: ROCKWELL AUTOMATION  
Facility address: 1225 7TH ST  
COLUMBUS, IN 47201  
EPA ID: IND004454906  
Contact: WILLIAM F SCHULENBERG  
Contact address: 3300 E 10TH ST  
COLUMBUS, IN 47201  
Contact country: US  
Contact telephone: 812-376-1318  
Contact email: Not reported  
EPA Region: 05  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: RELIANCE ELECTRIC CO INC  
Owner/operator address: 1225 7TH ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**1000245972**

COLUMBUS, IN 47201  
Owner/operator country: Not reported  
Owner/operator telephone: 812-378-2473  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: ROCKWELL AUTOMATION  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 02/28/2003  
Owner/Op end date: Not reported

Owner/operator name: ROCKWELL AUTOMATION  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 02/28/2003  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 07/21/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**1000245972**

Site name: ROCKWELL AUTOMATION  
Classification: Not a generator, verified

Date form received by agency: 03/02/2004

Site name: ROCKWELL AUTOMATION  
Classification: Small Quantity Generator

Date form received by agency: 02/28/2003

Site name: ROCKWELL AUTOMATION  
Classification: Small Quantity Generator

Date form received by agency: 11/27/1995

Site name: RELIANCE ELECTRIC INDUSTRIAL CO  
Classification: Small Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: F001

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F017

. Waste name: Not Defined

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**1000245972**

Date form received by agency: 02/20/1994

Site name: RELIANCE ELECTRIC

Classification: Large Quantity Generator

Date form received by agency: 12/07/1993

Site name: RELIANCE ELECTRIC INDUSTRIAL CO

Classification: Small Quantity Generator

Date form received by agency: 02/24/1992

Site name: RELIANCE ELECTRIC

Classification: Large Quantity Generator

Date form received by agency: 03/01/1990

Site name: RELIANCE ELECTRIC COMPANY, INC.

Classification: Large Quantity Generator

**Facility Has Received Notices of Violations:**

Regulation violated: Not reported

Area of violation: Generators - Pre-transport

Date violation determined: 09/28/1994

Date achieved compliance: 12/10/1996

Violation lead agency: State

Enforcement action: INITIAL 3008(A) COMPLIANCE

Enforcement action date: 10/17/1995

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: 57250

Final penalty amount: 57250

Paid penalty amount: 15104

Regulation violated: Not reported

Area of violation: Generators - Pre-transport

Date violation determined: 09/28/1994

Date achieved compliance: 12/10/1996

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 01/09/1995

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: Not reported

Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 09/28/1994

Date achieved compliance: 12/10/1996

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 01/09/1995

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**1000245972**

Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 09/28/1994  
Date achieved compliance: 12/10/1996  
Violation lead agency: State  
Enforcement action: INITIAL 3008(A) COMPLIANCE  
Enforcement action date: 10/17/1995  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: 57250  
Final penalty amount: 57250  
Paid penalty amount: 15104

**Evaluation Action Summary:**

Evaluation date: 12/14/1995  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 12/14/1995  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 12/06/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 12/06/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 12/02/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 12/02/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 07/05/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**1000245972**

Evaluation lead agency: State

Evaluation date: 07/05/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 04/25/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 04/25/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 03/09/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 03/09/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 02/13/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 02/13/1995  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 09/28/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

Evaluation date: 09/28/1994  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 12/10/1996  
Evaluation lead agency: State

IN MANIFEST:  
Year: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**1000245972**

EPA ID: IND004454906  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Manifest Handler:  
EPA Id #: IND004454906  
Generator Type: Not reported  
Generator Status: 7  
Transporter Type: Code no longer valid  
Transporter Status: Non Active  
TSD Type: Not reported  
TSD Status: Not reported  
Handler Mailing Address: 3300 E 10TH ST  
Handler Mailing City/State/Zip: COLUMBUS, IN 47201  
Contact Name: WILLIAM F SCHULENBERG  
Contact Telephone: 812-376-1318  
Contact Type: Environmental Coordinator

Year: Not reported  
EPA ID: IND004454906  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: Not reported  
EPA ID: IND004454906  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported  
TSDF EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

Year: Not reported  
EPA ID: IND004454906  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Report Type: Not reported  
Page No: Not reported  
Waste Desc: Not reported  
UOM: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROCKWELL AUTOMATION (Continued)**

**1000245972**

TSDf EPAID: Not reported  
Management code: Not reported  
Management Desc: Not reported

**M59**  
**NNW**  
**1/4-1/2**  
**0.469 mi.**  
**2478 ft.**

**CARL L WILLIAMS**  
**333 8TH ST**  
**COLUMBUS, IN 47201**

**IN LUST** **U000192591**  
**IN UST** **N/A**

**Site 1 of 3 in cluster M**

**Relative:**  
**Higher**

**LUST:**

**Actual:**  
**626 ft.**

Facility ID: 13794  
Incident Number: 201102508  
Description: NFA-Unconditional Closure  
Priority: Medium

**UST:**

Facility ID: 13794  
Owner Id: 894  
Company Name: Carl L Williams  
Mailing Address: 333 8th St  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 4000  
Substance Desc: Unknown  
Closed Date: Not reported

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 4000  
Substance Desc: Unknown  
Closed Date: Not reported

**M60**  
**NNW**  
**1/4-1/2**  
**0.473 mi.**  
**2499 ft.**

**VACANT LOT**  
**8TH & WASHINGTON ST**  
**COLUMBUS, IN 47201**

**IN LUST** **1000940274**  
**N/A**

**Site 2 of 3 in cluster M**

**Relative:**  
**Higher**

**LUST:**

**Actual:**  
**627 ft.**

Facility ID: 18994  
Incident Number: 199406527  
Description: NFA-Unconditional Closure  
Priority: Low

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

61  
North  
1/4-1/2  
0.476 mi.  
2515 ft.

**FIRST UNITED METHODIST CHURCH**  
**618 8TH ST**  
**COLUMBUS, IN 47201**

**IN SWRCY** **S121116813**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**630 ft.**

SWRCY:  
Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: (317) 631-2838  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIRST UNITED METHODIST CHURCH (Continued)**

**S121116813**

Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	Not reported
Hours of Operation:	Not reported
Hazardous Waste:	Not reported
E Scrap:	Not reported
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported
State:	Not reported
Zip:	Not reported
Contact Phone:	Not reported
County:	Not reported
Entity Type:	Not reported
Sites Notes:	Not reported
Customers:	Not reported
Materials Accepted:	Not reported
Website:	Not reported
Contact Name:	Not reported
Manufacturer:	Not reported
Processor:	Not reported
Broker:	Not reported
Other:	Not reported
Automotive Fluids:	Not reported
Batteries:	Not reported
Construction/Related Products:	Not reported
Electronics/Related Products:	Not reported
Glass:	Not reported
Industrial Materials:	Not reported
Metals:	Not reported
Paper:	Not reported
Plastics:	Not reported
Rubber:	Not reported
Textiles:	Not reported
Wood/Organics:	Not reported
Recycling:	,Paper
Hours of Operation:	24-Hour Dropoff
Hazardous Waste:	Not reported
E Scrap:	Not reported
Program Company:	Not reported
Program Contact Name:	Not reported
Address:	Not reported
City:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIRST UNITED METHODIST CHURCH (Continued)**

**S121116813**

State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported  
Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

Program Company: Not reported  
Program Contact Name: Not reported  
Address: Not reported  
City: Not reported  
State: Not reported  
Zip: Not reported  
Contact Phone: Not reported  
County: Not reported  
Entity Type: Not reported  
Sites Notes: Not reported  
Customers: Not reported  
Materials Accepted: Not reported  
Website: Not reported  
Contact Name: Not reported  
Manufacturer: Not reported  
Processor: Not reported  
Broker: Not reported  
Other: Not reported  
Automotive Fluids: Not reported  
Batteries: Not reported  
Construction/Related Products: Not reported  
Electronics/Related Products: Not reported  
Glass: Not reported  
Industrial Materials: Not reported  
Metals: Not reported  
Paper: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FIRST UNITED METHODIST CHURCH (Continued)**

**S121116813**

Plastics: Not reported  
Rubber: Not reported  
Textiles: Not reported  
Wood/Organics: Not reported  
Recycling: Not reported  
Hours of Operation: Not reported  
Hazardous Waste: Not reported  
E Scrap: Not reported

**M62**  
**NNW**  
**1/4-1/2**  
**0.485 mi.**  
**2561 ft.**

**A & H SERVICE**  
**803 WASHINGTON ST**  
**COLUMBUS, IN 47201**  
  
**Site 3 of 3 in cluster M**

**IN LUST** **1000754521**  
**IN UST** **N/A**

**Relative:**  
**Higher**

**LUST:**  
Facility ID: 3139  
Incident Number: 199903535  
Description: NFA-Unconditional Closure  
Priority: Low

**Actual:**  
**627 ft.**

**UST:**  
Facility ID: 3139  
Owner Id: 961  
Company Name: Harold Campbell  
Mailing Address: 803 W Washington  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Columbus, IN 47201

Tank Number: 1  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 6000  
Substance Desc: Gasoline  
Closed Date: 03/12/1999

Tank Number: 2  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 6000  
Substance Desc: Gasoline  
Closed Date: 03/12/1999

Tank Number: 3  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 6000  
Substance Desc: Gasoline  
Closed Date: 03/12/1999

Tank Number: 4  
**Tank Status:** **Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 6000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A & H SERVICE (Continued)**

**1000754521**

Substance Desc: Gasoline  
Closed Date: 03/12/1999

Tank Number: 5  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 550  
Substance Desc: Used Oil  
Closed Date: 03/12/1999

Tank Number: 6  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 2000  
Substance Desc: Gasoline  
Closed Date: 03/12/1999

Tank Number: 7  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 2000  
Substance Desc: Gasoline  
Closed Date: 03/12/1999

63  
WNW  
1/2-1  
0.624 mi.  
3295 ft.

**INDIANA GAS/COLUMBUS MGP  
WEST STREET (PARK)  
COLUMBUS, IN 47201**

**EDR MGP 1008408222  
N/A**

**Relative:** Manufactured Gas Plants:  
**Lower** No additional information available  
**Actual:**  
**610 ft.**

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COLUMBUS	S105202437	IRWIN UNION PARKING LOT	600 BLOCK WASHINGTON STREET	47201	IN VCP



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: N/A
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: N/A
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

### ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/12/2018  
Date Data Arrived at EDR: 12/28/2018  
Date Made Active in Reports: 01/11/2019  
Number of Days to Update: 14

Source: EPA  
Telephone: N/A  
Last EDR Contact: 02/15/2019  
Next Scheduled EDR Contact: 04/15/2019  
Data Release Frequency: Quarterly

### ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016  
Date Data Arrived at EDR: 01/05/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 92

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 01/04/2019  
Next Scheduled EDR Contact: 04/15/2019  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018  
Date Data Arrived at EDR: 12/28/2018  
Date Made Active in Reports: 01/11/2019  
Number of Days to Update: 14

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 02/15/2019  
Next Scheduled EDR Contact: 04/29/2019  
Data Release Frequency: Quarterly

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/13/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/29/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

### ***Federal institutional controls / engineering controls registries***

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018	Source: Department of the Navy
Date Data Arrived at EDR: 10/25/2018	Telephone: 843-820-7326
Date Made Active in Reports: 12/07/2018	Last EDR Contact: 02/07/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/27/2019
	Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2018	Telephone: 703-603-0695
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 02/04/2019
Number of Days to Update: 17	Next Scheduled EDR Contact: 03/11/2019
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2018	Telephone: 703-603-0695
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 02/04/2019
Number of Days to Update: 17	Next Scheduled EDR Contact: 03/11/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/24/2018

Date Data Arrived at EDR: 09/25/2018

Date Made Active in Reports: 11/09/2018

Number of Days to Update: 45

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 02/08/2019

Next Scheduled EDR Contact: 04/08/2019

Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

SHWS: List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

List of hazardous waste response sites scored utilizing the Indiana Scoring Model. The Indiana Scoring Model is a method of prioritizing, for state response actions, those hazardous substances response sites which are not on the National Priorities List. The ISM serves as the Commissioners management tool to address those sites which pose the most significant threat to human health and the environment in addition to assuring the departments resources are allocated accordingly.

Date of Government Version: 03/01/2007

Date Data Arrived at EDR: 08/27/2007

Date Made Active in Reports: 09/18/2007

Number of Days to Update: 22

Source: Department of Environmental Management

Telephone: 317-308-3052

Last EDR Contact: 11/21/2018

Next Scheduled EDR Contact: 03/11/2019

Data Release Frequency: No Update Planned

## ***State and tribal landfill and/or solid waste disposal site lists***

OPEN DUMPS: Open Dump Waste Sites

Open Dumps are sites that are not regulated and are illegal dump sites of solid waste, as defined by IAC 10-2-28 329 and IAC 10-2-128 of the Indiana Administrative Code.

Date of Government Version: 06/26/2009

Date Data Arrived at EDR: 12/11/2013

Date Made Active in Reports: 01/20/2014

Number of Days to Update: 40

Source: Department of Environmental Management

Telephone: 317-232-8726

Last EDR Contact: 12/07/2018

Next Scheduled EDR Contact: 03/18/2019

Data Release Frequency: Varies

SWF/LF: Permitted Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/20/2018

Date Data Arrived at EDR: 09/13/2018

Date Made Active in Reports: 10/04/2018

Number of Days to Update: 21

Source: Department of Environmental Management

Telephone: 317-232-0066

Last EDR Contact: 12/14/2018

Next Scheduled EDR Contact: 03/25/2019

Data Release Frequency: Semi-Annually

## ***State and tribal leaking storage tank lists***

LUST: Lust Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/01/2018

Date Data Arrived at EDR: 11/28/2018

Date Made Active in Reports: 11/30/2018

Number of Days to Update: 2

Source: Department of Environmental Management

Telephone: 317-232-8900

Last EDR Contact: 11/28/2018

Next Scheduled EDR Contact: 03/11/2019

Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-7439
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6271
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3372
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-6597
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-8677
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### **State and tribal registered storage tank lists**

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 01/08/2019
Number of Days to Update: 136	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Varies

#### UST: Indiana Registered Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/01/2018	Source: Department of Environmental Management
Date Data Arrived at EDR: 11/28/2018	Telephone: 317-308-3008
Date Made Active in Reports: 11/30/2018	Last EDR Contact: 11/28/2018
Number of Days to Update: 2	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Quarterly

#### AST: Above Ground Storage Tanks

A listing of aboveground storage tank sites that reported under the emergency rule.

Date of Government Version: 01/25/2017	Source: N/A
Date Data Arrived at EDR: 05/16/2017	Telephone: 317-232-2393
Date Made Active in Reports: 09/06/2017	Last EDR Contact: 01/31/2019
Number of Days to Update: 113	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: N/A

#### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

#### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3368
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-9424
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018	Source: EPA, Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 01/25/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal institutional control / engineering control registries***

### **AUL: Sites with Restrictions**

Activity and use limitations include both engineering controls and institutional controls. A listing of Comfort/Site Status Letter sites that have been issued with controls.

Date of Government Version: 11/05/2018  
Date Data Arrived at EDR: 11/30/2018  
Date Made Active in Reports: 01/28/2019  
Number of Days to Update: 59

Source: Department of Environmental Management  
Telephone: 317-232-8603  
Last EDR Contact: 11/26/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### **INDIAN VCP R7: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### **VCP: Voluntary Remediation Program Site List**

A current list of Voluntary Remediation Program sites that are no longer confidential.

Date of Government Version: 10/23/2018  
Date Data Arrived at EDR: 10/31/2018  
Date Made Active in Reports: 11/15/2018  
Number of Days to Update: 15

Source: Department of Environmental Management  
Telephone: 317-234-0966  
Last EDR Contact: 10/05/2018  
Next Scheduled EDR Contact: 01/21/2019  
Data Release Frequency: Semi-Annually

### **INDIAN VCP R1: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 12/19/2018  
Next Scheduled EDR Contact: 04/08/2019  
Data Release Frequency: Varies

## ***State and tribal Brownfields sites***

### **BROWNFIELDS: Brownfields Site List**

A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redevelopment is complicated due to the actual or perceived environmental contamination.

Date of Government Version: 08/17/2018  
Date Data Arrived at EDR: 08/30/2018  
Date Made Active in Reports: 10/04/2018  
Number of Days to Update: 35

Source: Department of Environmental Management  
Telephone: 317-233-2570  
Last EDR Contact: 11/26/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Semi-Annually

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

### **US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/17/2018  
Date Data Arrived at EDR: 12/18/2018  
Date Made Active in Reports: 01/11/2019  
Number of Days to Update: 24

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 12/18/2018  
Next Scheduled EDR Contact: 04/01/2019  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### **SWTIRE: Waste Tire Sites Listing**

This listing consists of Tire Sites - sites which contain tires - either for processing, for storage, or transport - as well as some illegal tire dumps, as defined by IC 13-11-2-251, IC 13-11-2-252, and IC 13-11-250.5 of the Indiana Code.

Date of Government Version: 10/19/2018  
Date Data Arrived at EDR: 01/04/2019  
Date Made Active in Reports: 02/08/2019  
Number of Days to Update: 35

Source: Department of Environmental Management  
Telephone: 317-232-8726  
Last EDR Contact: 01/04/2019  
Next Scheduled EDR Contact: 03/18/2019  
Data Release Frequency: Varies

#### **SWRCY: Recycling Facilities**

A listing of recycling facilities located in the state of Indiana.

Date of Government Version: 01/15/2019  
Date Data Arrived at EDR: 01/17/2019  
Date Made Active in Reports: 02/15/2019  
Number of Days to Update: 29

Source: Department of Environmental Management  
Telephone: 317-234-4050  
Last EDR Contact: 01/14/2019  
Next Scheduled EDR Contact: 04/29/2019  
Data Release Frequency: Varies

#### **INDIAN ODI: Report on the Status of Open Dumps on Indian Lands**

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 01/29/2019  
Next Scheduled EDR Contact: 05/13/2019  
Data Release Frequency: Varies

#### **DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations**

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 01/17/2019  
Next Scheduled EDR Contact: 05/06/2019  
Data Release Frequency: No Update Planned

#### **ODI: Open Dump Inventory**

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### **IHS OPEN DUMPS: Open Dumps on Indian Land**

A listing of all open dumps located on Indian Land in the United States.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 02/01/2019  
Next Scheduled EDR Contact: 05/13/2019  
Data Release Frequency: Varies

### **Local Lists of Hazardous waste / Contaminated Sites**

#### **US HIST CDL: National Clandestine Laboratory Register**

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018  
Date Data Arrived at EDR: 09/21/2018  
Date Made Active in Reports: 11/09/2018  
Number of Days to Update: 49

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/26/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: No Update Planned

#### **CDL: Clandestine Drug Lab Listing**

A listing of clandestine drug labs that have been cleaned up.

Date of Government Version: 08/29/2016  
Date Data Arrived at EDR: 10/05/2016  
Date Made Active in Reports: 10/20/2016  
Number of Days to Update: 15

Source: Department of Environmental Management  
Telephone: 317-416-5031  
Last EDR Contact: 01/07/2019  
Next Scheduled EDR Contact: 04/22/2019  
Data Release Frequency: Quarterly

#### **DEL SHWS: Deleted Commissioner's Bulletin Sites List**

A listing of sites deleted/removed from the Commissioner's Bulletin List

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/04/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 10

Source: Department of Environmental Management  
Telephone: 317-234-0347  
Last EDR Contact: 11/21/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Varies

#### **US CDL: Clandestine Drug Labs**

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018  
Date Data Arrived at EDR: 09/21/2018  
Date Made Active in Reports: 11/09/2018  
Number of Days to Update: 49

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/26/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Quarterly

### **Local Land Records**

#### **LIENS 2: CERCLA Lien Information**

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018  
Date Data Arrived at EDR: 12/28/2018  
Date Made Active in Reports: 01/11/2019  
Number of Days to Update: 14

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 02/15/2019  
Next Scheduled EDR Contact: 05/06/2019  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Records of Emergency Release Reports***

### **HMIRS: Hazardous Materials Information Reporting System**

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/27/2018	Telephone: 202-366-4555
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 02/08/2019
Number of Days to Update: 73	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

### **SPILLS: Spills Incidents**

Oil, hazardous, or objectionable materials that may be released to soil and water.

Date of Government Version: 10/31/2018	Source: Department of Environmental Management
Date Data Arrived at EDR: 11/28/2018	Telephone: 317-308-3038
Date Made Active in Reports: 12/03/2018	Last EDR Contact: 11/28/2018
Number of Days to Update: 5	Next Scheduled EDR Contact: 03/11/2019
	Data Release Frequency: Quarterly

### **SPILLS 90: SPILLS90 data from FirstSearch**

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/07/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **SPILLS 80: SPILLS80 data from FirstSearch**

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 09/11/2002	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/28/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 56	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## ***Other Ascertainable Records***

### **RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

### **FUDS: Formerly Used Defense Sites**

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 11/19/2018  
Next Scheduled EDR Contact: 03/04/2019  
Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 01/11/2019  
Next Scheduled EDR Contact: 04/22/2019  
Data Release Frequency: Semi-Annually

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 01/11/2019  
Next Scheduled EDR Contact: 04/22/2019  
Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 02/15/2019  
Next Scheduled EDR Contact: 05/27/2019  
Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018  
Date Data Arrived at EDR: 09/25/2018  
Date Made Active in Reports: 11/09/2018  
Number of Days to Update: 45

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 02/04/2019  
Next Scheduled EDR Contact: 04/08/2019  
Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 02/08/2019  
Next Scheduled EDR Contact: 05/20/2019  
Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017  
Date Data Arrived at EDR: 05/08/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 73

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 02/08/2019  
Next Scheduled EDR Contact: 05/20/2019  
Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 06/21/2017  
Date Made Active in Reports: 01/05/2018  
Number of Days to Update: 198

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 12/21/2018  
Next Scheduled EDR Contact: 04/01/2019  
Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 01/10/2018  
Date Made Active in Reports: 01/12/2018  
Number of Days to Update: 2

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 11/16/2018  
Next Scheduled EDR Contact: 03/04/2019  
Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 01/25/2019  
Next Scheduled EDR Contact: 05/06/2019  
Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018  
Date Data Arrived at EDR: 12/28/2018  
Date Made Active in Reports: 01/11/2019  
Number of Days to Update: 14

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 02/15/2019  
Next Scheduled EDR Contact: 03/18/2019  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2018	Telephone: 202-564-8600
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 01/22/2019
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018	Source: EPA
Date Data Arrived at EDR: 10/04/2018	Telephone: 202-564-6023
Date Made Active in Reports: 11/09/2018	Last EDR Contact: 02/15/2019
Number of Days to Update: 36	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018	Source: EPA
Date Data Arrived at EDR: 10/11/2018	Telephone: 202-566-0500
Date Made Active in Reports: 12/07/2018	Last EDR Contact: 01/11/2019
Number of Days to Update: 57	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/07/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016  
Date Data Arrived at EDR: 09/08/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 43

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 01/22/2019  
Next Scheduled EDR Contact: 05/06/2019  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 12/05/2018  
Next Scheduled EDR Contact: 03/18/2019  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 12/03/2018  
Next Scheduled EDR Contact: 03/18/2019  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017  
Date Data Arrived at EDR: 11/30/2017  
Date Made Active in Reports: 12/15/2017  
Number of Days to Update: 15

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 01/25/2019  
Next Scheduled EDR Contact: 05/06/2019  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/02/2018  
Date Data Arrived at EDR: 10/03/2018  
Date Made Active in Reports: 11/09/2018  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 01/03/2019  
Next Scheduled EDR Contact: 04/15/2019  
Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2018  
Date Data Arrived at EDR: 10/30/2018  
Date Made Active in Reports: 01/18/2019  
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 01/29/2019  
Next Scheduled EDR Contact: 05/11/2019  
Data Release Frequency: Quarterly

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018  
Date Data Arrived at EDR: 10/12/2018  
Date Made Active in Reports: 12/07/2018  
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/07/2019  
Next Scheduled EDR Contact: 04/22/2019  
Data Release Frequency: Varies

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 02/13/2019  
Next Scheduled EDR Contact: 06/03/2019  
Data Release Frequency: Biennially

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/07/2019
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Semi-Annually

### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/31/2019
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 12/14/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 03/04/2019
	Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2018	Telephone: 703-603-8787
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018  
Date Data Arrived at EDR: 08/29/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 11/30/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Semi-Annually

### US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 11/30/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 11/30/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Varies

### ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 12/19/2018  
Next Scheduled EDR Contact: 03/25/2019  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018	Source: EPA
Date Data Arrived at EDR: 12/05/2018	Telephone: (312) 353-2000
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 01/31/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 03/18/2019
	Data Release Frequency: Quarterly

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 11/30/2018
Number of Days to Update: 71	Next Scheduled EDR Contact: 03/11/2019
	Data Release Frequency: Varies

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/05/2018	Telephone: 202-564-2280
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/07/2019
Number of Days to Update: 9	Next Scheduled EDR Contact: 03/18/2019
	Data Release Frequency: Quarterly

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017	Source: Department of Defense
Date Data Arrived at EDR: 06/19/2018	Telephone: 703-704-1564
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/14/2019
Number of Days to Update: 87	Next Scheduled EDR Contact: 04/29/2019
	Data Release Frequency: Varies

### FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018	Source: EPA
Date Data Arrived at EDR: 08/22/2018	Telephone: 800-385-6164
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 11/19/2018
Number of Days to Update: 44	Next Scheduled EDR Contact: 03/04/2019
	Data Release Frequency: Quarterly

### AIRS: Permitted Sources & Emissions Listing

Current permitted sources and emissions inventory information.

Date of Government Version: 08/03/2016	Source: Department of Environmental Management
Date Data Arrived at EDR: 08/05/2016	Telephone: 317-233-0185
Date Made Active in Reports: 08/23/2016	Last EDR Contact: 12/26/2018
Number of Days to Update: 18	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ASBESTOS: Asbestos Notification Listing

A listing of asbestos notification site locations.

Date of Government Version: 01/28/2019  
Date Data Arrived at EDR: 01/31/2019  
Date Made Active in Reports: 02/15/2019  
Number of Days to Update: 15

Source: Department of Environmental Management  
Telephone: 317-233-0178  
Last EDR Contact: 01/28/2019  
Next Scheduled EDR Contact: 05/11/2019  
Data Release Frequency: Varies

### BULK: Registered Bulk Fertilizer and Pesticide Storage Facilities

A listing of registered dry or liquid bulk fertilizer and pesticide storage facilities.

Date of Government Version: 05/01/2018  
Date Data Arrived at EDR: 05/24/2018  
Date Made Active in Reports: 07/17/2018  
Number of Days to Update: 54

Source: Office of Indiana State Chemist  
Telephone: 765-494-0579  
Last EDR Contact: 01/28/2019  
Next Scheduled EDR Contact: 05/11/2019  
Data Release Frequency: Varies

### CFO: Confined Feeding Operations

This dataset consists of Confined Feeding Operations - i.e. A swine, chicken, turkey, beef or dairy agri-business that has large enough numbers of animals that IDEM regulates for environmental concerns, as defined by IC 13-18-10 of the Indiana Code.

Date of Government Version: 10/19/2018  
Date Data Arrived at EDR: 01/04/2019  
Date Made Active in Reports: 02/19/2019  
Number of Days to Update: 46

Source: Department of Environmental Management  
Telephone: 317-232-8726  
Last EDR Contact: 01/04/2019  
Next Scheduled EDR Contact: 04/15/2019  
Data Release Frequency: No Update Planned

### COAL ASH: Coal Ash Disposal Sites

A listing of coal ash disposal site locations.

Date of Government Version: 11/19/2016  
Date Data Arrived at EDR: 01/04/2017  
Date Made Active in Reports: 01/20/2017  
Number of Days to Update: 16

Source: Department of Environmental Management  
Telephone: 317-233-4624  
Last EDR Contact: 12/14/2018  
Next Scheduled EDR Contact: 03/25/2019  
Data Release Frequency: Varies

### DRYCLEANERS: Drycleaner Facility Listing

A list of drycleaners involved in the Indiana 5-Star Environmental Recognition Program. It is a voluntary program that ranks participating drycleaners on a scale of one to five stars. The program recognizes those drycleaners willing to do more for the environment and worker safety than the rules require. These drycleaners are going above and beyond the rules to protect the environment, their employees and their neighbors and customers.

Date of Government Version: 10/17/2017  
Date Data Arrived at EDR: 03/13/2018  
Date Made Active in Reports: 04/18/2018  
Number of Days to Update: 36

Source: Department of Environmental Management  
Telephone: 800-988-7901  
Last EDR Contact: 12/07/2018  
Next Scheduled EDR Contact: 03/25/2019  
Data Release Frequency: Varies

### Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/09/2019  
Date Data Arrived at EDR: 01/11/2019  
Date Made Active in Reports: 02/08/2019  
Number of Days to Update: 28

Source: Department of Environmental Management  
Telephone: 317-233-1052  
Last EDR Contact: 12/26/2018  
Next Scheduled EDR Contact: 04/15/2019  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/09/2019	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/11/2019	Telephone: 317-233-1052
Date Made Active in Reports: 02/08/2019	Last EDR Contact: 12/26/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Varies

### IND WASTE: Industrial Waste Sites Listing

The listing contains industrial waste site locations in Indiana, provided by personnel of Indiana Department of Environmental Management, Office of Land Quality.

Date of Government Version: 08/04/2015	Source: Department of Environmental Management
Date Data Arrived at EDR: 09/09/2015	Telephone: 317-232-8726
Date Made Active in Reports: 10/07/2015	Last EDR Contact: 12/07/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/18/2019
	Data Release Frequency: Quarterly

### IN MANIFEST: Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2016	Source: Department of Environmental Management
Date Data Arrived at EDR: 10/03/2017	Telephone: 317-233-4624
Date Made Active in Reports: 12/05/2017	Last EDR Contact: 01/02/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Annually

### NPDES: NPDES Permit Listing

A listing of active NPDES Permit Section facility locations.

Date of Government Version: 10/09/2018	Source: Department of Environmental Management
Date Data Arrived at EDR: 10/10/2018	Telephone: 317-233-0676
Date Made Active in Reports: 11/15/2018	Last EDR Contact: 02/07/2019
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Varies

### OISC: Office of Indiana State Chemist Database

Restricted use pesticide dealers and pesticide & fertilizer applicators.

Date of Government Version: 09/18/2018	Source: Office of Indiana State Chemist & Seed
Date Data Arrived at EDR: 09/18/2018	Telephone: 765-494-1492
Date Made Active in Reports: 10/04/2018	Last EDR Contact: 12/18/2018
Number of Days to Update: 16	Next Scheduled EDR Contact: 04/01/2019
	Data Release Frequency: Quarterly

### SCP: State Cleanup Program Sites

The goals for the State Cleanup Section are to mitigate risk to human health and the environment.

Date of Government Version: 08/29/2016	Source: Department of Environmental Management
Date Data Arrived at EDR: 08/29/2016	Telephone: 317-233-0068
Date Made Active in Reports: 10/20/2016	Last EDR Contact: 02/07/2019
Number of Days to Update: 52	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Quarterly

### TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 07/31/2018  
Date Made Active in Reports: 09/18/2018  
Number of Days to Update: 49

Source: Department of Environmental Management  
Telephone: 317-233-0066  
Last EDR Contact: 11/21/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Varies

### UIC: UIC Site Listing

A listing of class II well locations

Date of Government Version: 11/26/2018  
Date Data Arrived at EDR: 11/28/2018  
Date Made Active in Reports: 01/29/2019  
Number of Days to Update: 62

Source: Department of Natural Resources  
Telephone: 317-232-0045  
Last EDR Contact: 11/28/2018  
Next Scheduled EDR Contact: 03/11/2019  
Data Release Frequency: Varies

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

##### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

##### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

##### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **EDR RECOVERED GOVERNMENT ARCHIVES**

### ***Exclusive Recovered Govt. Archives***

#### **RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List**

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/24/2013  
Number of Days to Update: 176

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### **RGA LF: Recovered Government Archive Solid Waste Facilities List**

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/20/2014  
Number of Days to Update: 203

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### **RGA LUST: Recovered Government Archive Leaking Underground Storage Tank**

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/24/2013  
Number of Days to Update: 176

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### **CT MANIFEST: Hazardous Waste Manifest Data**

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/12/2018  
Date Data Arrived at EDR: 11/14/2018  
Date Made Active in Reports: 12/04/2018  
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 02/12/2019  
Next Scheduled EDR Contact: 05/27/2019  
Data Release Frequency: No Update Planned



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 07/13/2018  
Date Made Active in Reports: 08/01/2018  
Number of Days to Update: 19

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 01/07/2019  
Next Scheduled EDR Contact: 04/22/2019  
Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019  
Date Data Arrived at EDR: 01/30/2019  
Date Made Active in Reports: 02/14/2019  
Number of Days to Update: 15

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 01/30/2019  
Next Scheduled EDR Contact: 05/11/2019  
Data Release Frequency: Quarterly

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 10/23/2018  
Date Made Active in Reports: 11/27/2018  
Number of Days to Update: 35

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 01/11/2019  
Next Scheduled EDR Contact: 04/29/2019  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 02/23/2018  
Date Made Active in Reports: 04/09/2018  
Number of Days to Update: 45

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/19/2019  
Next Scheduled EDR Contact: 06/03/2019  
Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 01/16/2019  
Date Data Arrived at EDR: 01/17/2019  
Date Made Active in Reports: 02/19/2019  
Number of Days to Update: 33

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 01/14/2019  
Next Scheduled EDR Contact: 04/29/2019  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 06/15/2018  
Date Made Active in Reports: 07/09/2018  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 12/07/2018  
Next Scheduled EDR Contact: 03/25/2019  
Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

### Electric Power Transmission Line Data

Source: PennWell Corporation

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## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

**AHA Hospitals:**

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

**Medical Centers: Provider of Services Listing**

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

**Nursing Homes**

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

**Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

**Private Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

**Daycare Centers: Child Care Listing**

Source: Family & Social Services Administration

Telephone: 317-232-4740

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI: National Wetlands Inventory.** This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

**State Wetlands Data: Wetland Inventory**

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

**Current USGS 7.5 Minute Topographic Map**

Source: U.S. Geological Survey

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### STREET AND ADDRESS INFORMATION

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

JT0460.710.0001  
703, 711, 801, & REAR LOT OF 2ND STREET  
COLUMBUS, IN 47201

### **TARGET PROPERTY COORDINATES**

Latitude (North):	39.199751 - 39° 11' 59.10"
Longitude (West):	85.916329 - 85° 54' 58.78"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	593576.1
UTM Y (Meters):	4339294.5
Elevation:	619 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	5945355 COLUMBUS, IN
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

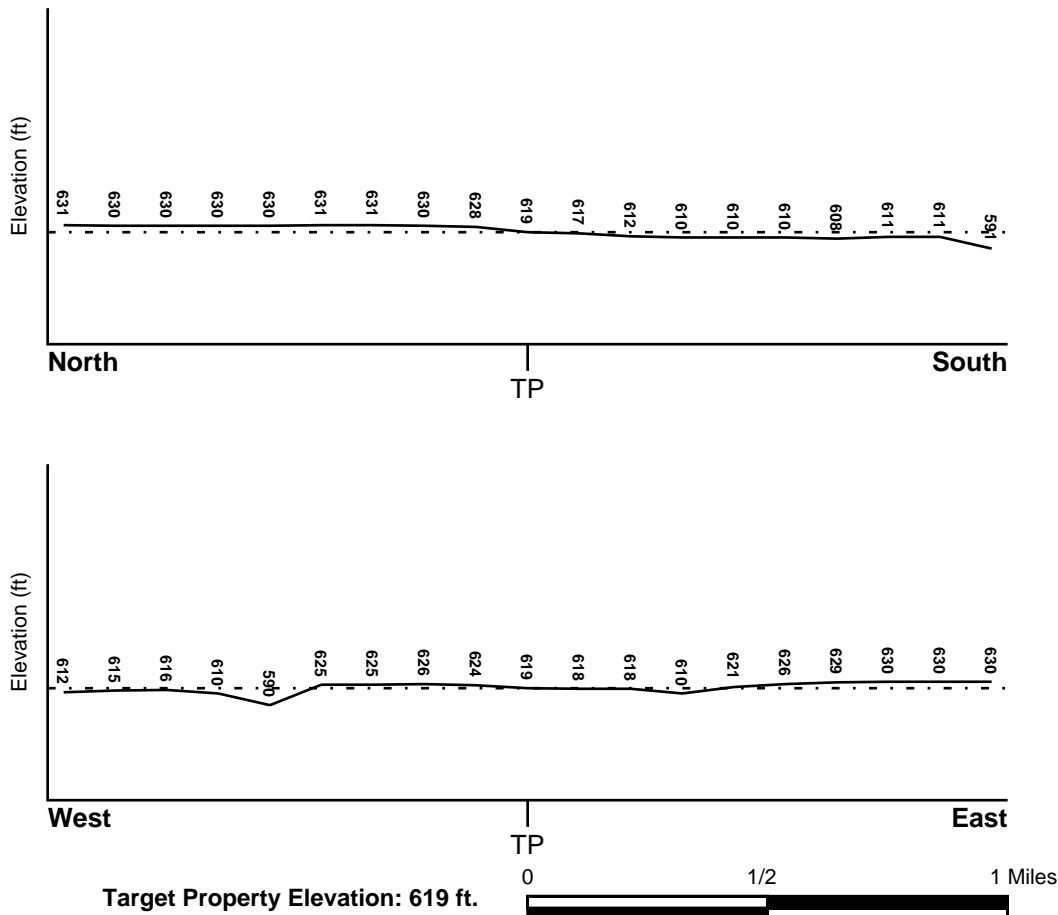
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
18005C0133E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
18005C0134E	FEMA FIRM Flood data
18005C0141E	FEMA FIRM Flood data

### NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
COLUMBUS	YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era:	Paleozoic
System:	Devonian
Series:	Middle Devonian
Code:	D2 <i>(decoded above as Era, System &amp; Series)</i>

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 05567149.2r



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: JT0460.710.0001  
ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
Columbus IN 47201  
LAT/LONG: 39.199751 / 85.916329

CLIENT: August Mack Environmental, Inc  
CONTACT: Elyse Baron  
INQUIRY #: 05567149.2r  
DATE: February 20, 2019 3:28 pm



## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

#### **Soil Map ID: 1**

Soil Component Name: Shoals

Soil Surface Texture:  
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

No Layer Information available.

---

#### **Soil Map ID: 2**

Soil Component Name: Urban land

Soil Surface Texture:  
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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### Soil Map ID: 3

Soil Component Name: Urban land

Soil Surface Texture:  
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

### Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture:  
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

### Soil Map ID: 5

Soil Component Name: Rossburg

Soil Surface Texture:  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

### Soil Map ID: 6

Soil Component Name: Eel

Soil Surface Texture:  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

No Layer Information available.

---

### Soil Map ID: 7

Soil Component Name: Medway

Soil Surface Texture:  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 54 inches

No Layer Information available.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

---

### Soil Map ID: 8

Soil Component Name: Genesee

Soil Surface Texture:  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

### Soil Map ID: 9

Soil Component Name: Water

Soil Surface Texture:  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

### Soil Map ID: 10

Soil Component Name: Udorthents, sandy

Soil Surface Texture:  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
T109	USGS40000307806	1/2 - 1 Mile ESE
111	USGS40000306493	1/2 - 1 Mile NNW

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
11	IN2030132	1/4 - 1/2 Mile WNW

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	INLIT2000011096	0 - 1/8 Mile ENE
A2	INDNR4000048682	0 - 1/8 Mile ENE
A3	INDNR4000048583	0 - 1/8 Mile East
A4	INLIT2000011087	0 - 1/8 Mile ESE

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
5	INDNR4000048596	0 - 1/8 Mile SE
6	INDNR4000048648	0 - 1/8 Mile SW
7	INDNR4000048549	1/8 - 1/4 Mile West
8	INDNR4000048767	1/8 - 1/4 Mile NE
B9	INDNR4000048449	1/4 - 1/2 Mile East
B10	INLIT2000011088	1/4 - 1/2 Mile East
B12	INDNR4000048520	1/4 - 1/2 Mile East
B13	INDNR4000048524	1/4 - 1/2 Mile East
B14	INDNR4000048336	1/4 - 1/2 Mile East
B15	INDNR4000048411	1/4 - 1/2 Mile East
B16	INDNR4000048590	1/4 - 1/2 Mile East
B17	INDNR4000048600	1/4 - 1/2 Mile East
B18	INDNR4000048531	1/4 - 1/2 Mile East
B19	INDNR4000048588	1/4 - 1/2 Mile East
B20	INDNR4000048380	1/4 - 1/2 Mile East
B21	INLIT2000011078	1/4 - 1/2 Mile East
C22	INDNR4000048639	1/4 - 1/2 Mile ESE
C23	INLIT2000011070	1/4 - 1/2 Mile ESE
D24	INDNR4000048180	1/4 - 1/2 Mile WSW
D25	INLIT2000011038	1/4 - 1/2 Mile WSW
C26	INDNR4000048523	1/4 - 1/2 Mile East
E27	INLIT2000011195	1/4 - 1/2 Mile NE
E28	INDNR4000048455	1/4 - 1/2 Mile NE
F29	INLIT2000011189	1/4 - 1/2 Mile NW
F30	INDNR4000047882	1/4 - 1/2 Mile NW
F31	INDNR4000047849	1/4 - 1/2 Mile WNW
F32	INDNR4000048075	1/4 - 1/2 Mile WNW
F33	INLIT2000011206	1/4 - 1/2 Mile NW
F34	INDNR4000047786	1/4 - 1/2 Mile NW
G35	INLIT2000011160	1/4 - 1/2 Mile ENE
G36	INDNR4000048565	1/4 - 1/2 Mile ENE
F37	INLIT2000011194	1/4 - 1/2 Mile NW
F38	INDNR4000048087	1/4 - 1/2 Mile NW
H39	INLIT2000011181	1/4 - 1/2 Mile ENE
H40	INDNR4000048315	1/4 - 1/2 Mile ENE
I41	INLIT2000011210	1/2 - 1 Mile NE
I42	INDNR4000048696	1/2 - 1 Mile NE
J43	INLIT2000011229	1/2 - 1 Mile NW
J44	INLIT2000011230	1/2 - 1 Mile NW
J45	INDNR4000048096	1/2 - 1 Mile NW
J46	INDNR4000047809	1/2 - 1 Mile NW
J47	INLIT2000011222	1/2 - 1 Mile NW
J48	INDNR4000048037	1/2 - 1 Mile NW
49	INDNR4000048545	1/2 - 1 Mile SSW
I50	INDNR4000048562	1/2 - 1 Mile NE
K51	INLIT2000011205	1/2 - 1 Mile NW
L52	INLIT2000011278	1/2 - 1 Mile NNW
K53	INDNR4000048242	1/2 - 1 Mile NW
L54	INDNR4000048640	1/2 - 1 Mile NNW
55	INDNR4000048130	1/2 - 1 Mile SW
M56	INLIT2000011257	1/2 - 1 Mile NW
M57	INDNR4000047996	1/2 - 1 Mile NW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
M58	INLIT2000011259	1/2 - 1 Mile NW
M59	INDNR4000048171	1/2 - 1 Mile NW
N60	INDNR4000048264	1/2 - 1 Mile South
N61	INDNR4000048610	1/2 - 1 Mile South
M62	INLIT2000011249	1/2 - 1 Mile NW
M63	INDNR4000048119	1/2 - 1 Mile NW
M64	INLIT2000011266	1/2 - 1 Mile NW
M65	INDNR4000048176	1/2 - 1 Mile NW
M66	INDNR4000047835	1/2 - 1 Mile NW
M67	INDNR4000047832	1/2 - 1 Mile NW
M68	INDNR4000048063	1/2 - 1 Mile NW
M69	INDNR4000048196	1/2 - 1 Mile NW
M70	INDNR4000048067	1/2 - 1 Mile NW
71	INDNR4000048434	1/2 - 1 Mile ENE
O72	INDNR4000047905	1/2 - 1 Mile WNW
O73	INDNR4000047846	1/2 - 1 Mile WNW
O74	INDNR4000047845	1/2 - 1 Mile WNW
O75	INDNR4000048142	1/2 - 1 Mile WNW
O76	INDNR4000047957	1/2 - 1 Mile WNW
O77	INDNR4000047955	1/2 - 1 Mile WNW
N78	INDNR4000048638	1/2 - 1 Mile South
N79	INLIT2000010917	1/2 - 1 Mile South
P80	INLIT2000011255	1/2 - 1 Mile NW
P81	INDNR4000048046	1/2 - 1 Mile NW
82	INDNR4000048012	1/2 - 1 Mile West
Q83	INDNR4000048023	1/2 - 1 Mile NNW
Q84	INDNR4000048062	1/2 - 1 Mile NNW
Q85	INDNR4000048073	1/2 - 1 Mile NNW
Q86	INDNR4000048020	1/2 - 1 Mile NNW
Q87	INDNR4000047779	1/2 - 1 Mile NNW
Q88	INDNR4000047848	1/2 - 1 Mile NNW
Q89	INDNR4000047907	1/2 - 1 Mile NNW
Q90	INDNR4000048195	1/2 - 1 Mile NNW
Q91	INDNR4000048199	1/2 - 1 Mile NNW
Q92	INDNR4000048206	1/2 - 1 Mile NNW
Q93	INDNR4000048137	1/2 - 1 Mile NNW
Q94	INDNR4000048126	1/2 - 1 Mile NNW
Q95	INDNR4000048128	1/2 - 1 Mile NNW
Q96	INDNR4000048134	1/2 - 1 Mile NNW
N97	INDNR4000048363	1/2 - 1 Mile South
N98	INLIT2000010895	1/2 - 1 Mile South
R99	INDNR4000048297	1/2 - 1 Mile ESE
R100	INLIT2000011048	1/2 - 1 Mile ESE
101	INDNR4000048125	1/2 - 1 Mile WNW
S102	INLIT2000011323	1/2 - 1 Mile NE
S103	INDNR4000048317	1/2 - 1 Mile NE
S104	INDNR4000048354	1/2 - 1 Mile NE
105	INDNR4000048605	1/2 - 1 Mile NNE
T106	INDNR4000048272	1/2 - 1 Mile ESE
T107	INDNR4000048536	1/2 - 1 Mile ESE
108	INDNR4000048442	1/2 - 1 Mile NNE
S110	INLIT2000011359	1/2 - 1 Mile NE

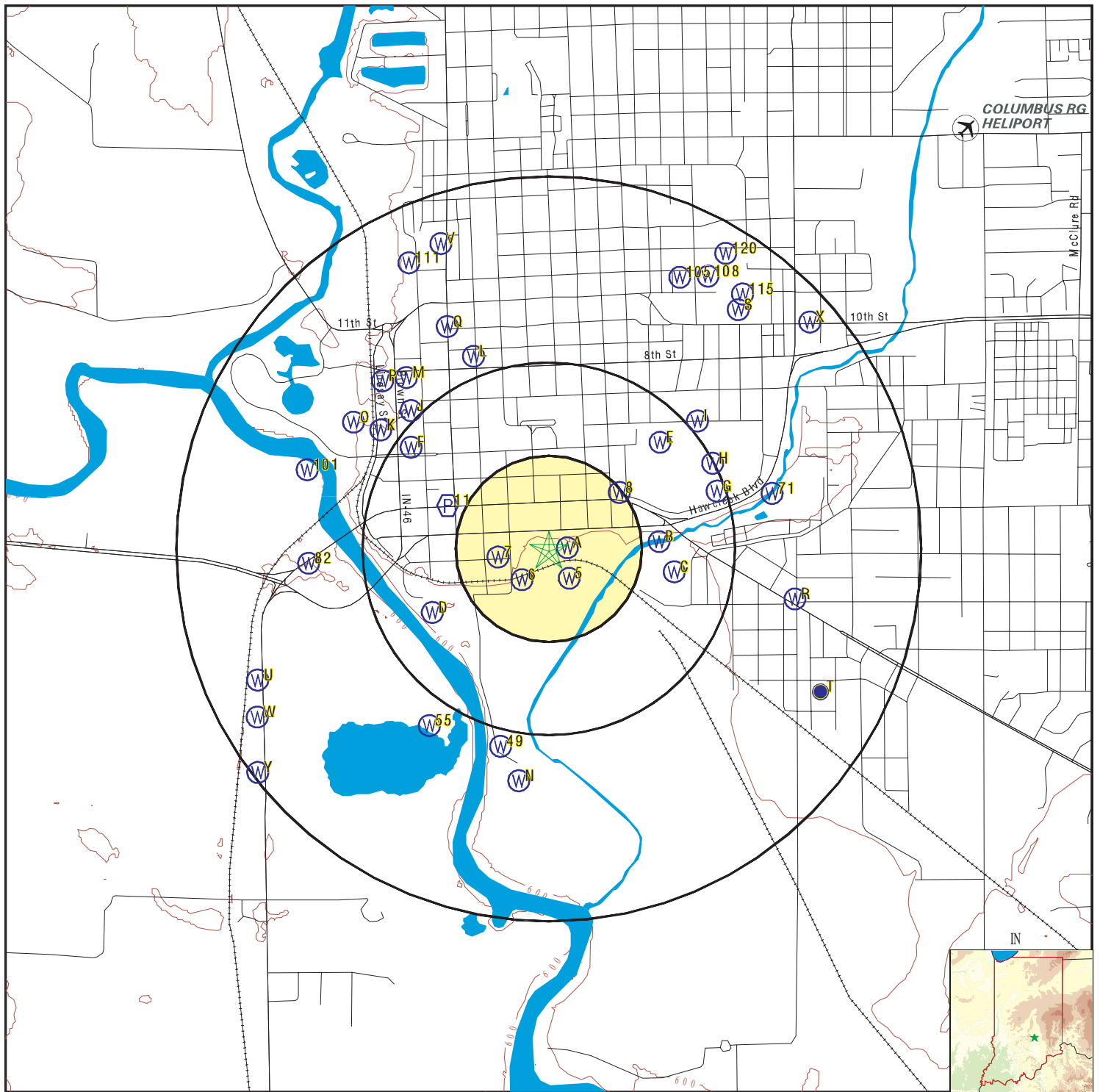
## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
S112	INDNR4000048431	1/2 - 1 Mile NE
U113	INDNR4000047803	1/2 - 1 Mile WSW
U114	INLIT2000010986	1/2 - 1 Mile WSW
115	INDNR4000048568	1/2 - 1 Mile NE
V116	INLIT2000011422	1/2 - 1 Mile NNW
V117	INDNR4000048170	1/2 - 1 Mile NNW
W118	INDNR4000048162	1/2 - 1 Mile WSW
W119	INLIT2000010967	1/2 - 1 Mile WSW
120	INDNR4000048498	1/2 - 1 Mile NNE
X121	INDNR4000048265	1/2 - 1 Mile NE
X122	INDNR4000048465	1/2 - 1 Mile NE
Y123	INDNR4000048167	1/2 - 1 Mile SW
Y124	INLIT2000010923	1/2 - 1 Mile SW



# PHYSICAL SETTING SOURCE MAP - 05567149.2r



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location

SITE NAME: JT0460.710.0001  
 ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
 Columbus IN 47201  
 LAT/LONG: 39.199751 / 85.916329

CLIENT: August Mack Environmental, Inc  
 CONTACT: Elyse Baron  
 INQUIRY #: 05567149.2r  
 DATE: February 20, 2019 3:28 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**A1**  
**ENE**  
**0 - 1/8 Mile**  
**Higher**

**IN WELLS INLIT2000011096**

Database:	Water Wells Database	iLITH ID:	88408
Agency ID:	216295	Elevation (ft):	610
Lithologic Total Depth:	42	Drilled Depth:	42
Static Water Depth:	9	Completion Date:	1960-03-22 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	0		

**A2**  
**ENE**  
**0 - 1/8 Mile**  
**Higher**

**IN WELLS INDNR4000048682**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216295	Aquifer Elevation (ft):	568
Bailer Water Production (gal/min):	250	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	10
Static Water Level:	9	Well depth (ft):	42
Owner:	SERV-ICE & COAL CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	2
Casing Diameter:	12	Casing Length:	33
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	12
Date Completed:	22-MAR-60	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216295&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216295&amp;_from=SUMMARY&amp;_action=Details</a>		

**A3**  
**East**  
**0 - 1/8 Mile**  
**Higher**

**IN WELLS INDNR4000048583**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216310	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	65
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	0
Owner:	BARTHOLOMEW COUNTY REMC		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	10-MAR-88	Ground Elevation:	619
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216310&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216310&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**A4**  
**ESE**  
**0 - 1/8 Mile**  
**Higher**

**IN WELLS INLIT2000011087**

Database:	Water Wells Database	iLITH ID:	88419
Agency ID:	216310	Elevation (ft):	619
Lithologic Total Depth:	95	Drilled Depth:	0
Static Water Depth:	0	Completion Date:	1988-03-10 00:00:00
Driller:	Eco Group	Record Source:	IDNR
Bedrock Depth:	65		

**5**  
**SE**  
**0 - 1/8 Mile**  
**Lower**

**IN WELLS INDNR4000048596**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216399	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	6	Well depth (ft):	66
Owner:	CITY OF COLUMBUS		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	01-JUN-40	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216399&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216399&amp;_from=SUMMARY&amp;_action=Details</a>		

**6**  
**SW**  
**0 - 1/8 Mile**  
**Higher**

**IN WELLS INDNR4000048648**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216285	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	7.31	Well depth (ft):	49
Owner:	CITY OF COLUMBUS		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216285&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216285&amp;_from=SUMMARY&amp;_action=Details</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

7

West  
1/8 - 1/4 Mile  
Higher

IN WELLS

INDNR4000048549

Database:	Water-Well Locations in Indiana		
Well Reference #:	216305	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	35	Well depth (ft):	50
Owner:	SERV-ICE & COAL CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	16	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	01-JAN-15	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216305&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216305&amp;_from=SUMMARY&amp;_action=Details</a>		

8

NE  
1/8 - 1/4 Mile  
Higher

IN WELLS

INDNR4000048767

Database:	Water-Well Locations in Indiana		
Well Reference #:	317190	Aquifer Elevation (ft):	607
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	10	Well depth (ft):	22.5
Owner:	CUMMINS		
PLSS Reserve Name:	Not Reported	PLSS Survey Reserve #:	0
Hours Bailer Tested:	0	Drawdown after Bailer:	0
Casing Length:	7.5	Casing Diameter:	2
Depth to Grout:	0	Casing Material:	Not Reported
Liner Diameter (in):	0	Grout Method:	Not Reported
Pump Test Drawdown (ft):	0	Depth of Pump Setting:	0
Screen Diameter (in):	2	Hours Tested:	0
Ground Elevation:	630	Date Completed:	08-MAY-86
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=317190&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=317190&amp;_from=SUMMARY&amp;_action=Details</a>		

B9

East  
1/4 - 1/2 Mile  
Lower

IN WELLS

INDNR4000048449

Database:	Water-Well Locations in Indiana		
Well Reference #:	222796	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	79
Pump Water Production (gal/min):	508	Screen Length (ft):	0
Static Water Level:	8	Well depth (ft):	124
Owner:	STADLER PACKING CO INC.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	84.3
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	86
Hours Tested:	2	Screen Diameter (in):	0
Date Completed:	09-DEC-65	Ground Elevation:	620
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222796&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222796&amp;_from=SUMMARY&amp;_action=Details</a>		

**B10**  
**East**  
**1/4 - 1/2 Mile**  
**Lower**

**IN WELLS      INLIT2000011088**

Database:	Water Wells Database	iLITH ID:	92865
Agency ID:	222796	Elevation (ft):	620
Lithologic Total Depth:	124	Drilled Depth:	124
Static Water Depth:	8	Completion Date:	1965-12-09 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	79		

**11**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**FRDS PWS      IN2030132**

Epa region:	05	State:	IN
Pwsid:	IN2030132	Pwsname:	FREEZER FRESH ICE CREAM
Cityserved:	Not Reported	Stateserved:	IN
Zipsserved:	Not Reported	Fipscounty:	18005
Status:	Closed	Retpopsrvd:	200
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Private
Contact:	FREEZER FRESH ICE CREAM	Contactorgname:	Not Reported
Contactphone:	812-376-0710	Contactaddress1:	LENORA FORDING
Contactaddress2:	2502 E. 25TH	Contactcity:	COLUMBUS
Contactstate:	IN	Contactzip:	47201
Pwsactivitycode:	I		
PWS ID:	IN2030132	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	IN2030132
Activity status:	Active	Date system activated:	7601
Date system deactivated:	Not Reported	Retail population:	00000200
System name:	FREEZER FRESH ICE CREAM	System address:	LENORA FORDING
System address:	2502 E. 25TH	System city:	COLUMBUS
System state:	IN	System zip:	47201
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	391205	Longitude:	0855517

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**B12**  
**East**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS** **INDNR4000048520**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222791	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	432	Screen Length (ft):	0
Static Water Level:	12	Well depth (ft):	130
Owner:	STADLER PACKING CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	8	Casing Length:	90.9
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	58
Hours Tested:	4	Screen Diameter (in):	0
Date Completed:	02-APR-71	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222791&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222791&amp;_from=SUMMARY&amp;_action=Details</a>		

**B13**  
**East**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS** **INDNR4000048524**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222776	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	300	Screen Length (ft):	20
Static Water Level:	0	Well depth (ft):	87
Owner:	STADLER PACKING CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	10
Hours Tested:	8	Screen Diameter (in):	12
Date Completed:	01-JUL-62	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222776&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222776&amp;_from=SUMMARY&amp;_action=Details</a>		

**B14**  
**East**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS** **INDNR4000048336**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222766	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	100	Screen Length (ft):	20
Static Water Level:	9	Well depth (ft):	82

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner:	STADLER PACKING CO INC.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	8	Casing Length:	68.6
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	1
Hours Tested:	3	Screen Diameter (in):	8
Date Completed:	13-JUN-66	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222766&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222766&amp;_from=SUMMARY&amp;_action=Details</a>		

### B15 East 1/4 - 1/2 Mile Higher

IN WELLS      INDNR4000048411

Database:	Water-Well Locations in Indiana		
Well Reference #:	222781	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	500	Screen Length (ft):	20
Static Water Level:	12	Well depth (ft):	92
Owner:	STADLER PACKING CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	72
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	4	Screen Diameter (in):	12
Date Completed:	29-APR-60	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222781&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222781&amp;_from=SUMMARY&amp;_action=Details</a>		

### B16 East 1/4 - 1/2 Mile Higher

IN WELLS      INDNR4000048590

Database:	Water-Well Locations in Indiana		
Well Reference #:	222806	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	862	Screen Length (ft):	0
Static Water Level:	9	Well depth (ft):	124
Owner:	STADLER PACKING CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	10	Casing Length:	89
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	15
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	16-MAR-70	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222806&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222806&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

### B17

East  
1/4 - 1/2 Mile  
Higher

IN WELLS

INDNR4000048600

Database:	Water-Well Locations in Indiana		
Well Reference #:	222829	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	20
Static Water Level:	10.5	Well depth (ft):	84
Owner:	STADLER PACKING CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	8	Casing Length:	64
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	8
Date Completed:	23-JUN-60	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222829&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222829&amp;_from=SUMMARY&amp;_action=Details</a>		

### B18

East  
1/4 - 1/2 Mile  
Higher

IN WELLS

INDNR4000048531

Database:	Water-Well Locations in Indiana		
Well Reference #:	222786	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	584	Screen Length (ft):	25
Static Water Level:	16	Well depth (ft):	88
Owner:	STADLER PACKING CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	63
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	20
Hours Tested:	4	Screen Diameter (in):	12
Date Completed:	16-MAY-60	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222786&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222786&amp;_from=SUMMARY&amp;_action=Details</a>		

### B19

East  
1/4 - 1/2 Mile  
Higher

IN WELLS

INDNR4000048588

Database:	Water-Well Locations in Indiana		
Well Reference #:	222811	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	407	Screen Length (ft):	0
Static Water Level:	14	Well depth (ft):	125



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner:	STADLER PACKING CO.	PLSS Reserve Name:	Not Reported
PLSS Survey Reserve #:	0	Hours Bailer Tested:	0
Drawdown after Bailer:	0	Casing Length:	86.7
Casing Diameter:	10	Depth to Grout:	0
Casing Material:	Not Reported	Liner Diameter (in):	0
Grout Method:	Not Reported	Pump Test Drawdown (ft):	10
Depth of Pump Setting:	0	Screen Diameter (in):	0
Hours Tested:	2	Ground Elevation:	0
Date Completed:	17-FEB-70		
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222811&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222811&amp;_from=SUMMARY&amp;_action=Details</a>		

### B20 East 1/4 - 1/2 Mile Lower

IN WELLS      INDNR4000048380

Database:	Water-Well Locations in Indiana		
Well Reference #:	222771	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	79
Pump Water Production (gal/min):	267	Screen Length (ft):	20
Static Water Level:	8	Well depth (ft):	84
Owner:	STADLER PACKING CO INC.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	84.5
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	5	Screen Diameter (in):	12
Date Completed:	28-JUL-65	Ground Elevation:	615
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222771&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222771&amp;_from=SUMMARY&amp;_action=Details</a>		

### B21 East 1/4 - 1/2 Mile Lower

IN WELLS      INLIT2000011078

Database:	Water Wells Database	iLITH ID:	92847
Agency ID:	222771	Elevation (ft):	615
Lithologic Total Depth:	124	Drilled Depth:	84
Static Water Depth:	8	Completion Date:	1965-07-28 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	79		

### C22 ESE 1/4 - 1/2 Mile Lower

IN WELLS      INDNR4000048639

Database:	Water-Well Locations in Indiana		
Well Reference #:	222801	Aquifer Elevation (ft):	526
Bailer Water Production (gal/min):	60	Depth to Bedrock (ft):	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pump Water Production (gal/min):	0	Screen Length (ft):	10
Static Water Level:	7.5	Well depth (ft):	84
Owner:	STADLER BROS PACKING CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	4.5	Hours Bailer Tested:	1
Casing Diameter:	12	Casing Length:	74
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	11.5
Date Completed:	17-APR-64	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222801&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222801&amp;_from=SUMMARY&amp;_action=Details</a>		

**C23  
ESE  
1/4 - 1/2 Mile  
Lower**

**IN WELLS      INLIT2000011070**

Database:	Water Wells Database	iLITH ID:	92870
Agency ID:	222801	Elevation (ft):	610
Lithologic Total Depth:	84	Drilled Depth:	84
Static Water Depth:	7.5	Completion Date:	1964-04-17 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	84		

**D24  
WSW  
1/4 - 1/2 Mile  
Lower**

**IN WELLS      INDNR4000048180**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216290	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	50
Pump Water Production (gal/min):	8	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	205
Owner:	PUBLIC SERVICE CO OF INC		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	3	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	01-AUG-36	Ground Elevation:	620
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216290&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216290&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**D25**  
**WSW**  
**1/4 - 1/2 Mile**  
**Lower**

**IN WELLS INLIT2000011038**

Database:	Water Wells Database	iLITH ID:	88404
Agency ID:	216290	Elevation (ft):	620
Lithologic Total Depth:	205	Drilled Depth:	205
Static Water Depth:	0	Completion Date:	1936-08-01 00:00:00
Driller:	H Lamb	Record Source:	IDNR
Bedrock Depth:	50		

**C26**  
**East**  
**1/4 - 1/2 Mile**  
**Lower**

**IN WELLS INDNR4000048523**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222761	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	650	Screen Length (ft):	0
Static Water Level:	14	Well depth (ft):	135
Owner:	STADLER PACKING CO INC.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	93.9
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	24
Hours Tested:	8	Screen Diameter (in):	0
Date Completed:	02-DEC-73	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222761&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222761&amp;_from=SUMMARY&amp;_action=Details</a>		

**E27**  
**NE**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS INLIT2000011195**

Database:	Water Wells Database	iLITH ID:	92909
Agency ID:	222871	Elevation (ft):	0
Lithologic Total Depth:	85	Drilled Depth:	85
Static Water Depth:	4	Completion Date:	1946-04-01 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	85		

**E28**  
**NE**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS INDNR4000048455**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222871	Aquifer Elevation (ft):	540

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	325	Screen Length (ft):	0
Static Water Level:	4	Well depth (ft):	85
Owner:	CUMMINS ENGINE CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	01-APR-46	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222871&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222871&amp;_from=SUMMARY&amp;_action=Details</a>		

**F29**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS      INLIT2000011189**

Database:	Water Wells Database	iLITH ID:	88441
Agency ID:	216350	Elevation (ft):	625
Lithologic Total Depth:	66	Drilled Depth:	66
Static Water Depth:	20	Completion Date:	1981-11-19 00:00:00
Driller:	Reynolds Supply	Record Source:	IDNR
Bedrock Depth:	0		

**F30**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS      INDNR4000047882**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216350	Aquifer Elevation (ft):	559
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	650	Screen Length (ft):	15
Static Water Level:	20	Well depth (ft):	66
Owner:	CUMMINS ENGINE CORP		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	20	Casing Length:	52
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	30
Hours Tested:	24	Screen Diameter (in):	20
Date Completed:	19-NOV-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216350&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216350&amp;_from=SUMMARY&amp;_action=Details</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**F31**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS** **INDNR4000047849**

Database:	Water-Well Locations in Indiana		
Well Reference #:	317356	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	6
Owner:	IRWIN UNION BANK		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=317356&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=317356&amp;_from=SUMMARY&amp;_action=Details</a>		

**F32**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS** **INDNR4000048075**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216365	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	20	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	200
Owner:	IRWIN UNION BANK		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216365&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216365&amp;_from=SUMMARY&amp;_action=Details</a>		

**F33**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS** **INLIT2000011206**

Database:	Water Wells Database	iLITH ID:	100182
Agency ID:	264916	Elevation (ft):	625
Lithologic Total Depth:	55	Drilled Depth:	55
Static Water Depth:	15	Completion Date:	1981-05-28 00:00:00
Driller:	UNKNOWN	Record Source:	IDNR

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bedrock Depth: 55

**F34  
NW  
1/4 - 1/2 Mile  
Higher**

**IN WELLS INDNR4000047786**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264916	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	55
Pump Water Production (gal/min):	0	Screen Length (ft):	2
Static Water Level:	15	Well depth (ft):	55
Owner:	CUMMINS ENGINE CORP.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	56
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	28-MAY-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264916&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264916&amp;_from=SUMMARY&amp;_action=Details</a>		

**G35  
ENE  
1/4 - 1/2 Mile  
Higher**

**IN WELLS INLIT2000011160**

Database:	Water Wells Database	iLITH ID:	92892
Agency ID:	222841	Elevation (ft):	630
Lithologic Total Depth:	23	Drilled Depth:	23.5
Static Water Depth:	9	Completion Date:	1986-05-09 00:00:00
Driller:	ATEC Associates - Inc.	Record Source:	IDNR
Bedrock Depth:	0		

**G36  
ENE  
1/4 - 1/2 Mile  
Higher**

**IN WELLS INDNR4000048565**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222841	Aquifer Elevation (ft):	607
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	9	Well depth (ft):	23.5
Owner:	CUMMINS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	8.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	09-MAY-86
Ground Elevation:	630	Pump Type:	O

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Report URL: [https://secure.in.gov/apps/dnr/water/dnr\\_waterwell?refNo=222841&\\_from=SUMMARY&\\_action=Details](https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222841&_from=SUMMARY&_action=Details)

**F37  
NW  
1/4 - 1/2 Mile  
Higher**

**IN WELLS INLIT2000011194**

Database:	Water Wells Database	iLITH ID:	100179
Agency ID:	264906	Elevation (ft):	0
Lithologic Total Depth:	56	Drilled Depth:	56
Static Water Depth:	15	Completion Date:	1981-03-31 00:00:00
Driller:	UNKNOWN	Record Source:	IDNR
Bedrock Depth:	56		

**F38  
NW  
1/4 - 1/2 Mile  
Higher**

**IN WELLS INDNR4000048087**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264906	Aquifer Elevation (ft):	569
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	3
Static Water Level:	15	Well depth (ft):	56
Owner:	CUMMINS ENGINE CORP.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	56
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	31-MAR-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264906&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264906&amp;_from=SUMMARY&amp;_action=Details</a>		

**H39  
ENE  
1/4 - 1/2 Mile  
Higher**

**IN WELLS INLIT2000011181**

Database:	Water Wells Database	iLITH ID:	92890
Agency ID:	222836	Elevation (ft):	628
Lithologic Total Depth:	33.5	Drilled Depth:	33.5
Static Water Depth:	18.8	Completion Date:	1986-05-03 00:00:00
Driller:	ATEC Associates - Inc.	Record Source:	IDNR
Bedrock Depth:	0		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**H40**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**IN WELLS INDNR4000048315**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222836	Aquifer Elevation (ft):	594.5
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	18.8	Well depth (ft):	33.5
Owner:	CUMMINS ENGINE	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	18.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	03-MAY-86
Ground Elevation:	628	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222836&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222836&amp;_from=SUMMARY&amp;_action=Details</a>		

**I41**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INLIT2000011210**

Database:	Water Wells Database		iLITH ID:	92895
Agency ID:	222846	Elevation (ft):	625	
Lithologic Total Depth:	33	Drilled Depth:	33	
Static Water Depth:	19.7	Completion Date:	1986-05-09 00:00:00	
Driller:	ATEC Associates - Inc.	Record Source:	IDNR	
Bedrock Depth:	0			

**I42**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000048696**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222846	Aquifer Elevation (ft):	592
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	19.7	Well depth (ft):	33
Owner:	CUMMINS ENGINE	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	18	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	09-MAY-86
Ground Elevation:	625	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222846&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222846&amp;_from=SUMMARY&amp;_action=Details</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**J43**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INLIT2000011229**

Database:	Water Wells Database	iLITH ID:	88438
Agency ID:	216345	Elevation (ft):	625
Lithologic Total Depth:	55	Drilled Depth:	55
Static Water Depth:	20	Completion Date:	1981-11-11 00:00:00
Driller:	Reynolds Supply	Record Source:	IDNR
Bedrock Depth:	55		

**J44**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INLIT2000011230**

Database:	Water Wells Database	iLITH ID:	100181
Agency ID:	264911	Elevation (ft):	0
Lithologic Total Depth:	55	Drilled Depth:	55
Static Water Depth:	15	Completion Date:	1981-05-29 00:00:00
Driller:	UNKNOWN	Record Source:	IDNR
Bedrock Depth:	55		

**J45**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000048096**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216345	Aquifer Elevation (ft):	570
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	55
Pump Water Production (gal/min):	109	Screen Length (ft):	30
Static Water Level:	20	Well depth (ft):	55
Owner:	CUMMINS ENGINE CORP		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	25
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	5
Hours Tested:	24	Screen Diameter (in):	12
Date Completed:	11-NOV-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216345&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216345&amp;_from=SUMMARY&amp;_action=Details</a>		

**J46**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000047809**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264911	Aquifer Elevation (ft):	570

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	2
Static Water Level:	15	Well depth (ft):	55
Owner:	CUMMINS ENGINE CORP.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	56
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	29-MAY-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264911&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264911&amp;_from=SUMMARY&amp;_action=Details</a>		

**J47**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INLIT2000011222**

Database:	Water Wells Database	iLITH ID:	100184
Agency ID:	264921	Elevation (ft):	0
Lithologic Total Depth:	66	Drilled Depth:	66
Static Water Depth:	0	Completion Date:	1981-04-10 00:00:00
Driller:	UNKNOWN	Record Source:	IDNR
Bedrock Depth:	66		

**J48**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048037**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264921	Aquifer Elevation (ft):	559
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	3
Static Water Level:	0	Well depth (ft):	66
Owner:	CUMMINS ENGINE CORP.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	66
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	10-APR-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264921&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264921&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**49**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000048545**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216389	Aquifer Elevation (ft):	546
Bailer Water Production (gal/min):	50	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	10
Static Water Level:	2.67	Well depth (ft):	64
Owner:	GRIFFIN INDUSTRIES, INC		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	1	Hours Bailer Tested:	2
Casing Diameter:	6	Casing Length:	54
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	6
Date Completed:	22-FEB-71	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216389&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216389&amp;_from=SUMMARY&amp;_action=Details</a>		

**150**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048562**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222861	Aquifer Elevation (ft):	535
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	22	Screen Length (ft):	0
Static Water Level:	22	Well depth (ft):	90
Owner:	REEVES PULLEY CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	6
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	06-MAY-55	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222861&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222861&amp;_from=SUMMARY&amp;_action=Details</a>		

**K51**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INLIT2000011205**

Database:	Water Wells Database	iLITH ID:	88436
Agency ID:	216340	Elevation (ft):	625
Lithologic Total Depth:	55	Drilled Depth:	55
Static Water Depth:	20	Completion Date:	1981-11-17 00:00:00
Driller:	Reynolds Supply	Record Source:	IDNR

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bedrock Depth: 53

**L52**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INLIT2000011278**

Database:	Water Wells Database	iLITH ID:	88432
Agency ID:	216330	Elevation (ft):	625
Lithologic Total Depth:	56	Drilled Depth:	56
Static Water Depth:	24	Completion Date:	1964-07-01 00:00:00
Driller:	Critzer Drilling Co.	Record Source:	IDNR
Bedrock Depth:	0		

**K53**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048242**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216340	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	55
Pump Water Production (gal/min):	71	Screen Length (ft):	30
Static Water Level:	20	Well depth (ft):	55
Owner:	CUMMINS ENGINE CORP		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	12
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	3
Hours Tested:	24	Screen Diameter (in):	12
Date Completed:	17-NOV-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216340&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216340&amp;_from=SUMMARY&amp;_action=Details</a>		

**L54**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048640**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216330	Aquifer Elevation (ft):	569
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	20	Screen Length (ft):	3
Static Water Level:	24	Well depth (ft):	56
Owner:	DR. FISHER	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	4
Casing Length:	54	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	1
Screen Diameter (in):	4	Date Completed:	01-JUL-64
Ground Elevation:	625	Pump Type:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Report URL: [https://secure.in.gov/apps/dnr/water/dnr\\_waterwell?refNo=216330&\\_from=SUMMARY&\\_action=Details](https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216330&_from=SUMMARY&_action=Details)

**55  
SW  
1/2 - 1 Mile  
Lower**

**IN WELLS INDNR4000048130**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216315	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	8	Well depth (ft):	69
Owner:	CITY OF COLUMBUS		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	01-JUN-40	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216315&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216315&amp;_from=SUMMARY&amp;_action=Details</a>		

**M56  
NW  
1/2 - 1 Mile  
Higher**

**IN WELLS INLIT2000011257**

Database:	Water Wells Database	iLITH ID:	88444
Agency ID:	216355	Elevation (ft):	625
Lithologic Total Depth:	76	Drilled Depth:	76
Static Water Depth:	21	Completion Date:	1981-11-05 00:00:00
Driller:	Reynolds Supply	Record Source:	IDNR
Bedrock Depth:	0		

**M57  
NW  
1/2 - 1 Mile  
Higher**

**IN WELLS INDNR4000047996**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216355	Aquifer Elevation (ft):	550
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	1000	Screen Length (ft):	15
Static Water Level:	21	Well depth (ft):	76
Owner:	CUMMINS ENG. CORP.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	20	Casing Length:	62
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	20
Hours Tested:	24	Screen Diameter (in):	20

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date Completed: 05-NOV-81 Ground Elevation: 625  
Pump Type: Not Reported  
Report URL: [https://secure.in.gov/apps/dnr/water/dnr\\_waterwell?refNo=216355&\\_from=SUMMARY&\\_action=Details](https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216355&_from=SUMMARY&_action=Details)

**M58  
NW  
1/2 - 1 Mile  
Higher**

**IN WELLS INLIT2000011259**

Database:	Water Wells Database	iLITH ID:	100186
Agency ID:	264926	Elevation (ft):	0
Lithologic Total Depth:	75	Drilled Depth:	75
Static Water Depth:	0	Completion Date:	1981-04-08 00:00:00
Driller:	UNKNOWN	Record Source:	IDNR
Bedrock Depth:	75		

**M59  
NW  
1/2 - 1 Mile  
Higher**

**IN WELLS INDNR4000048171**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264926	Aquifer Elevation (ft):	550
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	3
Static Water Level:	0	Well depth (ft):	75
Owner:	CUMMINS ENGINE CORP.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	75
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	08-APR-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264926&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264926&amp;_from=SUMMARY&amp;_action=Details</a>		

**N60  
South  
1/2 - 1 Mile  
Lower**

**IN WELLS INDNR4000048264**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216384	Aquifer Elevation (ft):	565
Bailer Water Production (gal/min):	60	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	15	Well depth (ft):	45
Owner:	GRIFFIN INDUSTRIES		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	31
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	19-SEP-78	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216384&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216384&amp;_from=SUMMARY&amp;_action=Details</a>		

**N61**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000048610**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216379	Aquifer Elevation (ft):	550
Bailer Water Production (gal/min):	60	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	7.75
Static Water Level:	15	Well depth (ft):	60
Owner:	GRIFFIN INDUSTRIES		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	10	Casing Length:	54
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	29-AUG-78	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216379&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216379&amp;_from=SUMMARY&amp;_action=Details</a>		

**M62**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INLIT2000011249**

Database:	Water Wells Database	iLITH ID:	88458
Agency ID:	216370	Elevation (ft):	0
Lithologic Total Depth:	80	Drilled Depth:	0
Static Water Depth:	0	Completion Date:	1981-04-02 00:00:00
Driller:	Reynolds Supply	Record Source:	IDNR
Bedrock Depth:	80		

**M63**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048119**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216370	Aquifer Elevation (ft):	545
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	3
Static Water Level:	0	Well depth (ft):	0
Owner:	CUMMINS ENGINE CORP		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	41

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	02-APR-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216370&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216370&amp;_from=SUMMARY&amp;_action=Details</a>		

**M64  
NW  
1/2 - 1 Mile  
Higher**

**IN WELLS INLIT2000011266**

Database:	Water Wells Database	iLITH ID:	88449
Agency ID:	216360	Elevation (ft):	623
Lithologic Total Depth:	80	Drilled Depth:	80
Static Water Depth:	16	Completion Date:	1981-06-04 00:00:00
Driller:	Reynolds Supply	Record Source:	IDNR
Bedrock Depth:	80		

**M65  
NW  
1/2 - 1 Mile  
Higher**

**IN WELLS INDNR4000048176**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216360	Aquifer Elevation (ft):	543
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	1029	Screen Length (ft):	20
Static Water Level:	16	Well depth (ft):	80
Owner:	CUMMINS ENGINE CORP.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	16	Casing Length:	61
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	26
Hours Tested:	24	Screen Diameter (in):	16
Date Completed:	04-JUN-81	Ground Elevation:	623
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216360&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216360&amp;_from=SUMMARY&amp;_action=Details</a>		

**M66  
NW  
1/2 - 1 Mile  
Higher**

**IN WELLS INDNR4000047835**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230976	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	18	Well depth (ft):	0
Owner:	CUMMINS ENGINE CORPORATION		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	09-MAY-83	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230976&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230976&amp;_from=SUMMARY&amp;_action=Details</a>		

### M67 NW 1/2 - 1 Mile Higher

IN WELLS

INDNR4000047832

Database:	Water-Well Locations in Indiana		
Well Reference #:	230971	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	250	Screen Length (ft):	10
Static Water Level:	21	Well depth (ft):	0
Owner:	CUMMINS ENGINE CORPORATION		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	8	Casing Length:	55
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	37
Hours Tested:	0	Screen Diameter (in):	8
Date Completed:	23-JUN-83	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230971&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230971&amp;_from=SUMMARY&amp;_action=Details</a>		

### M68 NW 1/2 - 1 Mile Higher

IN WELLS

INDNR4000048063

Database:	Water-Well Locations in Indiana		
Well Reference #:	230966	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	328	Screen Length (ft):	30
Static Water Level:	21	Well depth (ft):	0
Owner:	CUMMINS ENGINE CORP		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12.75	Casing Length:	35
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	34
Hours Tested:	6	Screen Diameter (in):	12
Date Completed:	24-JUN-83	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230966&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230966&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**M69**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048196**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230981	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	18	Well depth (ft):	0
Owner:	CUMMINS ENGINE CORPORATION		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	19-MAY-83	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230981&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230981&amp;_from=SUMMARY&amp;_action=Details</a>		

**M70**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048067**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230986	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	0
Owner:	CUMMINS ENGINE CORP		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	09-MAY-83	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230986&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230986&amp;_from=SUMMARY&amp;_action=Details</a>		

**71**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048434**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222851	Aquifer Elevation (ft):	535
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	1071	Screen Length (ft):	20
Static Water Level:	18	Well depth (ft):	85

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner:	CUMMINS ENGINE CO.	PLSS Reserve Name:	Not Reported
PLSS Survey Reserve #:	0	Hours Bailer Tested:	0
Drawdown after Bailer:	0	Casing Length:	68
Casing Diameter:	12	Depth to Grout:	0
Casing Material:	Not Reported	Liner Diameter (in):	0
Grout Method:	Not Reported	Pump Test Drawdown (ft):	25
Depth of Pump Setting:	0	Screen Diameter (in):	11.63
Hours Tested:	4	Ground Elevation:	620
Date Completed:	22-AUG-67		
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222851&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222851&amp;_from=SUMMARY&amp;_action=Details</a>		

### O72 WNW 1/2 - 1 Mile Lower

IN WELLS      INDNR4000047905

Database:	Water-Well Locations in Indiana		
Well Reference #:	264942	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	65
Owner:	CUMMINS ENGINE COMPANY		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264942&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264942&amp;_from=SUMMARY&amp;_action=Details</a>		

### O73 WNW 1/2 - 1 Mile Lower

IN WELLS      INDNR4000047846

Database:	Water-Well Locations in Indiana		
Well Reference #:	264896	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	75.5
Owner:	CUMM'S ENGINE CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	14-MAR-79	Ground Elevation:	626.4
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264896&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264896&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**O74**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000047845**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264957	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	75.9
Owner:	CUMMINS ENGINE CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264957&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264957&amp;_from=SUMMARY&amp;_action=Details</a>		

**O75**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000048142**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264947	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	73
Owner:	CUMMINS ENGINE COMPANY		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	13-MAR-79	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264947&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264947&amp;_from=SUMMARY&amp;_action=Details</a>		

**O76**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000047957**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216380	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	79
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	17.5	Well depth (ft):	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Owner:	CUMMINS ENGINE CORP	PLSS Reserve Name:	Not Reported
PLSS Survey Reserve #:	0	Hours Bailer Tested:	0
Drawdown after Bailer:	0	Casing Length:	0
Casing Diameter:	0	Depth to Grout:	0
Casing Material:	Not Reported	Liner Diameter (in):	0
Grout Method:	Not Reported	Pump Test Drawdown (ft):	0
Depth of Pump Setting:	0	Screen Diameter (in):	0
Hours Tested:	0	Ground Elevation:	626.4
Date Completed:	Not Reported		
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216380&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216380&amp;_from=SUMMARY&amp;_action=Details</a>		

### O77 WNW 1/2 - 1 Mile Lower

IN WELLS      INDNR4000047955

Database:	Water-Well Locations in Indiana		
Well Reference #:	264952	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	73
Owner:	CUMMINS ENGINE COMPANY		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264952&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264952&amp;_from=SUMMARY&amp;_action=Details</a>		

### N78 South 1/2 - 1 Mile Lower

IN WELLS      INDNR4000048638

Database:	Water-Well Locations in Indiana		
Well Reference #:	216394	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	24	Depth to Bedrock (ft):	102
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	17	Well depth (ft):	125
Owner:	GRIFFIN INDUSTRIES		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	4	Casing Length:	103.5
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	20-MAR-81	Ground Elevation:	611
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216394&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216394&amp;_from=SUMMARY&amp;_action=Details</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**N79**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS INLIT2000010917**

Database:	Water Wells Database	iLITH ID:	88472
Agency ID:	216394	Elevation (ft):	611
Lithologic Total Depth:	125	Drilled Depth:	125
Static Water Depth:	17	Completion Date:	1981-03-20 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	102		

**P80**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INLIT2000011255**

Database:	Water Wells Database	iLITH ID:	88462
Agency ID:	216375	Elevation (ft):	625
Lithologic Total Depth:	78	Drilled Depth:	0
Static Water Depth:	0	Completion Date:	1981-04-09 00:00:00
Driller:	Reynolds Supply	Record Source:	IDNR
Bedrock Depth:	78		

**P81**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000048046**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216375	Aquifer Elevation (ft):	547
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	78
Pump Water Production (gal/min):	0	Screen Length (ft):	3
Static Water Level:	0	Well depth (ft):	0
Owner:	CUMMINS ENGINE CORP		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	78
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	09-APR-81	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216375&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216375&amp;_from=SUMMARY&amp;_action=Details</a>		

**82**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000048012**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216300	Aquifer Elevation (ft):	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	0
Owner:	IND ST HWY COMM	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	0
Casing Length:	0	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	0	Date Completed:	01-JAN-47
Ground Elevation:	0	Pump Type:	Not Reported
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216300&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216300&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q83**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS      INDNR4000048023**

Database:	Water-Well Locations in Indiana		
Well Reference #:	307338	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	10
Static Water Level:	0	Well depth (ft):	25
Owner:	CENTRAL TRANSPORT		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	15
Casing Material:	PVC	Depth to Grout:	0
Grout Method:	BENT	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=307338&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=307338&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q84**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS      INDNR4000048062**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230937	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	800	Screen Length (ft):	40
Static Water Level:	5	Well depth (ft):	75
Owner:	SPRAY SAND AND GRAV CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	16	Casing Length:	75
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	16
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	10
Hours Tested:	6	Screen Diameter (in):	16
Date Completed:	16-DEC-81	Ground Elevation:	0
Pump Type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Report URL: [https://secure.in.gov/apps/dnr/water/dnr\\_waterwell?refNo=230937&\\_from=SUMMARY&\\_action=Details](https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230937&_from=SUMMARY&_action=Details)

**Q85**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000048073**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230961	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	17	Well depth (ft):	27
Owner:	CUMMINS ENGINE	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	12	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	12-MAY-86
Ground Elevation:	0	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230961&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230961&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q86**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000048020**

Database:	Water-Well Locations in Indiana		
Well Reference #:	264901	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	62.5
Owner:	CUMMONS ENGINE COMPANY		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	13-MAR-79	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264901&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=264901&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q87**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000047779**

Database:	Water-Well Locations in Indiana		
Well Reference #:	307337	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pump Water Production (gal/min):	0	Screen Length (ft):	10
Static Water Level:	0	Well depth (ft):	25
Owner:	CENTRAL TRANSPORT		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	15
Casing Material:	PVC	Depth to Grout:	0
Grout Method:	BENT	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=307337&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=307337&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q88**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS      INDNR4000047848**

Database:	Water-Well Locations in Indiana		
Well Reference #:	317355	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	10	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	130
Owner:	THOMPSON DAIRY	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	8
Casing Length:	0	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	0	Date Completed:	Not Reported
Ground Elevation:	0	Pump Type:	Not Reported
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=317355&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=317355&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q89**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS      INDNR4000047907**

Database:	Water-Well Locations in Indiana		
Well Reference #:	307336	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	10
Static Water Level:	0	Well depth (ft):	25
Owner:	CENTRAL TRANSPORT		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	15
Casing Material:	PVC	Depth to Grout:	0
Grout Method:	BENT	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=307336&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=307336&amp;_from=SUMMARY&amp;_action=Details</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**Q90**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000048195**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230941	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	10.1	Well depth (ft):	20.5
Owner:	CUMMINS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	5.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	07-MAY-86
Ground Elevation:	0	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230941&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230941&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q91**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000048199**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230956	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	16.5	Well depth (ft):	28
Owner:	CUMMINS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	13	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	08-MAY-86
Ground Elevation:	0	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230956&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230956&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q92**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS INDNR4000048206**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230936	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	8.5	Well depth (ft):	23.3
Owner:	CUMMINS	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	8.3	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	06-MAY-86
Ground Elevation:	0	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230936&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230936&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q93**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000048137**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230931	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	18.1	Well depth (ft):	33
Owner:	CUMMINS ENGINE	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	18	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	3	Date Completed:	02-MAY-86
Ground Elevation:	0	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230931&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230931&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q94**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000048126**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230946	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	11.3	Well depth (ft):	23
Owner:	CUMMINS ENGINE	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	8	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	12-MAY-86
Ground Elevation:	0	Pump Type:	O
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230946&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230946&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**Q95**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048128**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230951	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	15
Static Water Level:	11	Well depth (ft):	23.5
Owner:	CUMMINS ENGINE	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	2
Casing Length:	8.5	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	2	Date Completed:	07-MAY-86
Ground Elevation:	0	Pump Type:	0
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230951&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230951&amp;_from=SUMMARY&amp;_action=Details</a>		

**Q96**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048134**

Database:	Water-Well Locations in Indiana		
Well Reference #:	230991	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	0
Owner:	CUMMINS ENGINE CO	PLSS Reserve Name:	Not Reported
PLSS Survey Reserve #:	0	Hours Bailer Tested:	0
Drawdown after Bailer:	0	Casing Length:	0
Casing Diameter:	0	Depth to Grout:	0
Casing Material:	Not Reported	Liner Diameter (in):	0
Grout Method:	Not Reported	Pump Test Drawdown (ft):	0
Depth of Pump Setting:	0	Screen Diameter (in):	0
Hours Tested:	0	Ground Elevation:	0
Date Completed:	07-MAY-83		
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230991&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=230991&amp;_from=SUMMARY&amp;_action=Details</a>		

**N97**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000048363**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216374	Aquifer Elevation (ft):	552
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	155	Screen Length (ft):	7
Static Water Level:	15	Well depth (ft):	58
Owner:	COLUMBUS REDUCTION CO.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	50.58
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	10
Hours Tested:	6	Screen Diameter (in):	5.5
Date Completed:	22-JUN-67	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216374&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216374&amp;_from=SUMMARY&amp;_action=Details</a>		

### N98 South 1/2 - 1 Mile Lower

IN WELLS INLIT2000010895

Database:	Water Wells Database	iLITH ID:	88461
Agency ID:	216374	Elevation (ft):	610
Lithologic Total Depth:	58	Drilled Depth:	58
Static Water Depth:	15	Completion Date:	1967-06-22 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	0		

### R99 ESE 1/2 - 1 Mile Higher

IN WELLS INDNR4000048297

Database:	Water-Well Locations in Indiana		
Well Reference #:	222816	Aquifer Elevation (ft):	580
Bailer Water Production (gal/min):	20	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	2
Static Water Level:	25	Well depth (ft):	45
Owner:	BENZOL CO INC.	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	1	Casing Diameter:	4
Casing Length:	43	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	3.75	Date Completed:	10-AUG-64
Ground Elevation:	625	Pump Type:	Not Reported
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222816&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222816&amp;_from=SUMMARY&amp;_action=Details</a>		

### R100 ESE 1/2 - 1 Mile Higher

IN WELLS INLIT2000011048

Database:	Water Wells Database	iLITH ID:	92880
Agency ID:	222816	Elevation (ft):	625
Lithologic Total Depth:	45	Drilled Depth:	45
Static Water Depth:	25	Completion Date:	1964-08-10 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bedrock Depth: 0

**101**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000048125**

Database:	Water-Well Locations in Indiana		
Well Reference #:	44863	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	3
Static Water Level:	0	Well depth (ft):	18
Owner:	CUMMINS ENGINE CO INC		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	2	Casing Length:	15
Casing Material:	PVC	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	2
Date Completed:	04-OCT-93	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=44863&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=44863&amp;_from=SUMMARY&amp;_action=Details</a>		

**S102**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INLIT2000011323**

Database:	Water Wells Database	iLITH ID:	92887
Agency ID:	222831	Elevation (ft):	630
Lithologic Total Depth:	92	Drilled Depth:	0
Static Water Depth:	0	Completion Date:	1979-08-09 00:00:00
Driller:	Layne - Northern Co (Mishawaka)		
Record Source:	IDNR	Bedrock Depth:	88

**S103**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048317**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222831	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	88
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	0
Owner:	GOLDEN FOUNDRY	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	12.5
Casing Length:	0	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	11.5	Date Completed:	09-AUG-79
Ground Elevation:	630	Pump Type:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Report URL: [https://secure.in.gov/apps/dnr/water/dnr\\_waterwell?refNo=222831&\\_from=SUMMARY&\\_action=Details](https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222831&_from=SUMMARY&_action=Details)

**S104**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000048354**

Database:	Water-Well Locations in Indiana		
Well Reference #:	318431	Aquifer Elevation (ft):	539
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	25.8
Static Water Level:	19	Well depth (ft):	0
Owner:	GOLDEN FOUNDRY	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	12.5
Casing Length:	65.2	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	DRILLING MUD
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	0
Screen Diameter (in):	11.5	Date Completed:	09-AUG-79
Ground Elevation:	630	Pump Type:	Not Reported
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=318431&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=318431&amp;_from=SUMMARY&amp;_action=Details</a>		

**105**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000048605**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222826	Aquifer Elevation (ft):	550
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	930	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	80
Owner:	MORGAN PACKING CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	10	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	30
Hours Tested:	8	Screen Diameter (in):	0
Date Completed:	01-JAN-36	Ground Elevation:	630
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222826&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222826&amp;_from=SUMMARY&amp;_action=Details</a>		

**T106**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INDNR4000048272**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222869	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	69

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	8	Well depth (ft):	69
Owner:	CITY OF COLUMBUS		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	01-JAN-40	Ground Elevation:	610
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222869&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222869&amp;_from=SUMMARY&amp;_action=Details</a>		

### T107 ESE 1/2 - 1 Mile Higher

IN WELLS      INDNR4000048536

Database:	Water-Well Locations in Indiana		
Well Reference #:	222844	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	20	Screen Length (ft):	2
Static Water Level:	22	Well depth (ft):	53
Owner:	SPICER VAULT CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	4	Casing Length:	52
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	1.5	Screen Diameter (in):	4
Date Completed:	10-NOV-71	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222844&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222844&amp;_from=SUMMARY&amp;_action=Details</a>		

### 108 NNE 1/2 - 1 Mile Higher

IN WELLS      INDNR4000048442

Database:	Water-Well Locations in Indiana		
Well Reference #:	318463	Aquifer Elevation (ft):	527
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	103
Owner:	MORGAN PACKING CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	10	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	01-JAN-37	Ground Elevation:	630
Pump Type:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Report URL:

[https://secure.in.gov/apps/dnr/water/dnr\\_waterwell?refNo=318463&\\_from=SUMMARY&\\_action=Details](https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=318463&_from=SUMMARY&_action=Details)

**T109**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**

**USGS40000307806**

Organization ID:	USGS-IN	Organization Name:	USGS Indiana Water Science Center
Monitor Location:	NAWQA URBAN WELL FU24 AT COLUMBUS, IN		
Type:	Well	Description:	CODED BY JOE FENELON
HUC:	05120206	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported		
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Valley Train Deposits	Aquifer Type:	Unconfined single aquifer
Construction Date:	19950329	Well Depth:	40
Well Depth Units:	ft	Well Hole Depth:	42
Well Hole Depth Units:	ft		

Ground water levels, Number of Measurements:	3	Level reading date:	1997-06-20
Feet below surface:	17.33	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1996-07-25	Feet below surface:	18.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-07-26	Feet below surface:	20.46
Feet to sea level:	Not Reported	Note:	Not Reported

**S110**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**

**INLIT2000011359**

Database:	Water Wells Database	ILITH ID:	92901
Agency ID:	222856	Elevation (ft):	630
Lithologic Total Depth:	93.5	Drilled Depth:	93.6
Static Water Depth:	22	Completion Date:	1966-09-13 00:00:00
Driller:	Diehl Pump & Supply	Record Source:	IDNR
Bedrock Depth:	0		

**111**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS**

**USGS40000306493**

Organization ID:	USGS-IN	Organization Name:	USGS Indiana Water Science Center
Monitor Location:	RASA - IGS PETROLEUM FILE WELL 60		
Type:	Well		
Description:	DATA SOURCE: IGS PETROLEUM FILES 9/89		
HUC:	05120205	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Not Reported	Aquifer Type:	Confined multiple aquifer
Construction Date:	19480000	Well Depth:	1110

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth Units: ft  
Well Hole Depth Units: ft

Well Hole Depth: 1110

**S112**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048431**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222856	Aquifer Elevation (ft):	537
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	681	Screen Length (ft):	20
Static Water Level:	22	Well depth (ft):	93.6
Owner:	GOLDEN FOUNDRY CO.		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	12	Casing Length:	93.6
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	11
Hours Tested:	5	Screen Diameter (in):	12
Date Completed:	13-SEP-66	Ground Elevation:	630
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222856&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222856&amp;_from=SUMMARY&amp;_action=Details</a>		

**U113**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000047803**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216354	Aquifer Elevation (ft):	586
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	25	Screen Length (ft):	12
Static Water Level:	13	Well depth (ft):	28
Owner:	JOHN WISCHMEIER	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	6
Casing Length:	16	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	1	Hours Tested:	3
Screen Diameter (in):	6	Date Completed:	16-MAR-88
Ground Elevation:	614	Pump Type:	Not Reported
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216354&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216354&amp;_from=SUMMARY&amp;_action=Details</a>		

**U114**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INLIT2000010986**

Database:	Water Wells Database	iLITH ID:	88443
Agency ID:	216354	Elevation (ft):	614
Lithologic Total Depth:	28	Drilled Depth:	28

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Static Water Depth:	13	Completion Date:	1988-03-16 00:00:00
Driller:	Rose - Henry - & Son	Record Source:	IDNR
Bedrock Depth:	0		

**115**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048568**

Database:	Water-Well Locations in Indiana		
Well Reference #:	318462	Aquifer Elevation (ft):	530
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	100
Owner:	GOLDEN FOUNDRY CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	8	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	630
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=318462&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=318462&amp;_from=SUMMARY&amp;_action=Details</a>		

**V116**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INLIT2000011422**

Database:	Water Wells Database	iLITH ID:	88434
Agency ID:	216335	Elevation (ft):	625
Lithologic Total Depth:	53	Drilled Depth:	53
Static Water Depth:	16	Completion Date:	1960-04-21 00:00:00
Driller:	Fox - Harry H. - & Sons	Record Source:	IDNR
Bedrock Depth:	0		

**V117**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048170**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216335	Aquifer Elevation (ft):	572
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	50	Screen Length (ft):	10
Static Water Level:	16	Well depth (ft):	53
Owner:	COCA COLA BOTTLING PLANT		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	8	Casing Length:	44
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	17

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hours Tested:	3	Screen Diameter (in):	8
Date Completed:	21-APR-60	Ground Elevation:	625
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216335&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216335&amp;_from=SUMMARY&amp;_action=Details</a>		

**W118**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INDNR4000048162**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216369	Aquifer Elevation (ft):	562
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	20	Screen Length (ft):	2
Static Water Level:	16	Well depth (ft):	49
Owner:	R&R RENTAL INC.	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	4
Casing Length:	47	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	1
Screen Diameter (in):	4	Date Completed:	08-FEB-80
Ground Elevation:	611	Pump Type:	Not Reported
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216369&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216369&amp;_from=SUMMARY&amp;_action=Details</a>		

**W119**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS** **INLIT2000010967**

Database:	Water Wells Database	iLITH ID:	88457
Agency ID:	216369	Elevation (ft):	611
Lithologic Total Depth:	49	Drilled Depth:	49
Static Water Depth:	16	Completion Date:	1980-02-08 00:00:00
Driller:	Critzer Drilling Co.	Record Source:	IDNR
Bedrock Depth:	0		

**120**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS** **INDNR4000048498**

Database:	Water-Well Locations in Indiana		
Well Reference #:	318464	Aquifer Elevation (ft):	530
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	100
Owner:	GOLDEN FOUNDRY CO		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	6	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	630
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=318464&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=318464&amp;_from=SUMMARY&amp;_action=Details</a>		

**X121**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**      **INDNR4000048265**

Database:	Water-Well Locations in Indiana		
Well Reference #:	231041	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	80
Owner:	ARVIN INDUSTRIES		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	09-DEC-88	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=231041&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=231041&amp;_from=SUMMARY&amp;_action=Details</a>		

**X122**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**IN WELLS**      **INDNR4000048465**

Database:	Water-Well Locations in Indiana		
Well Reference #:	222821	Aquifer Elevation (ft):	0
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	0	Screen Length (ft):	0
Static Water Level:	0	Well depth (ft):	0
Owner:	CITY OF COLUMBUS		
PLSS Survey Reserve #:	0	PLSS Reserve Name:	Not Reported
Drawdown after Bailer:	0	Hours Bailer Tested:	0
Casing Diameter:	0	Casing Length:	0
Casing Material:	Not Reported	Depth to Grout:	0
Grout Method:	Not Reported	Liner Diameter (in):	0
Depth of Pump Setting:	0	Pump Test Drawdown (ft):	0
Hours Tested:	0	Screen Diameter (in):	0
Date Completed:	Not Reported	Ground Elevation:	0
Pump Type:	Not Reported		
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222821&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=222821&amp;_from=SUMMARY&amp;_action=Details</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**Y123**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS INDNR4000048167**

Database:	Water-Well Locations in Indiana		
Well Reference #:	216364	Aquifer Elevation (ft):	569
Bailer Water Production (gal/min):	0	Depth to Bedrock (ft):	0
Pump Water Production (gal/min):	20	Screen Length (ft):	2
Static Water Level:	24	Well depth (ft):	42
Owner:	R&R RENTAL INC.	PLSS Survey Reserve #:	0
PLSS Reserve Name:	Not Reported	Drawdown after Bailer:	0
Hours Bailer Tested:	0	Casing Diameter:	6
Casing Length:	40	Casing Material:	Not Reported
Depth to Grout:	0	Grout Method:	Not Reported
Liner Diameter (in):	0	Depth of Pump Setting:	0
Pump Test Drawdown (ft):	0	Hours Tested:	1
Screen Diameter (in):	6	Date Completed:	28-JUN-80
Ground Elevation:	611	Pump Type:	Not Reported
Report URL:	<a href="https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216364&amp;_from=SUMMARY&amp;_action=Details">https://secure.in.gov/apps/dnr/water/dnr_waterwell?refNo=216364&amp;_from=SUMMARY&amp;_action=Details</a>		

**Y124**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**IN WELLS INLIT2000010923**

Database:	Water Wells Database	iLITH ID:	88453
Agency ID:	216364	Elevation (ft):	611
Lithologic Total Depth:	42	Drilled Depth:	42
Static Water Depth:	24	Completion Date:	1980-06-28 00:00:00
Driller:	Critzer Drilling Co.	Record Source:	IDNR
Bedrock Depth:	0		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

State Database: IN Radon

#### Radon Test Results

Zipcode	Year	Test Type	Location	Result
47201	1996	Post-Mitigation	Other	1.5
47201	1996	Post-Mitigation	Other	0.5
47201	1996	Post-Mitigation	Other	0.8
47201	1994	Short Term	Other	0.5
47201	1994	Short Term	Other	0.3
47201	1994	Short Term	Other	6.5
47201	1994	Short Term	Other	3.9
47201	1994	Short Term	Other	4.7
47201	1994	Short Term	Other	1.9
47201	1994	Short Term	Other	8.5
47201	1994	Short Term	Other	4.5
47201	1994	Short Term	Other	2.1
47201	0	Unknown	Other	1.7
47201	1997	Short Term	Basement	3.1
47201	1997	Short Term	Basement	2.8
47201	1997	Short Term	Basement	1.3
47201	1997	Short Term	1st Floor	1.1
47201	1997	Short Term	Basement	4.0
47201	1997	Short Term	1st Floor	1.0
47201	1997	Short Term	Basement	4.8
47201	1997	Short Term	Basement	9.3
47201	1997	Short Term	1st Floor	1.6
47201	1997	Short Term	Basement	3.1
47201	0	Unknown	Other	13.1
47201	0	Unknown	Other	7.3
47201	0	Unknown	Other	9.7
47201	1997	Long Term	1st Floor	2.1
47201	1999	Long Term	Basement	3.2
47201	1999	Long Term	Basement	7.4
47201	2000	Long Term	Basement	0.5
47201	2000	Long Term	Other	1.9
47201	2000	Short Term	Other	3.8
47201	2000	Short Term	Other	5.4
47201	1997	Short Term	Basement	4.9
47201	1997	Post-Mitigation	Basement	1.0
47201	1997	Post-Mitigation	Basement	2.4
47201	1997	Short Term	Basement	7.2
47201	1997	Short Term	Basement	13.3
47201	1997	Post-Mitigation	Basement	0.8
47201	1997	Short Term	Basement	11.2
47201	1997	Short Term	Basement	87.1
47201	1997	Post-Mitigation	Basement	1.7
47201	1994	Short Term	Other	0.6
47201	1994	Short Term	Other	2.6
47201	1995	Unknown	Other	4.0
47201	1995	Unknown	Other	0.7
47201				

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

	0	Short Term	Basement	8.0
47201	0	Short Term	Basement	8.0
47201	0	Short Term	Other	10.9
47201	0	Short Term	Other	10.9
47201	0	Short Term	Basement	8.7
47201	0	Short Term	Basement	6.3
47201	0	Short Term	Basement	9.7
47201	2000	Short Term	Basement	8.8
47201	2000	Short Term	Basement	5.0
47201	2000	Short Term	Basement	1.6
47201	2000	Short Term	Basement	1.8
47201	1997	Short Term	Basement	3.1
47201	1997	Short Term	Basement	1.0
47201	2000	Short Term	Basement	0.5
47201	2000	Short Term	Basement	1.4
47201	2000	Short Term	Basement	0.6
47201	2000	Short Term	Basement	1.4
47201	2000	Short Term	Basement	1.2
47201	1996	Short Term	Other	0.9
47201	1996	Post-Mitigation	Other	2.2
47201	1996	Short Term	Other	1.0
47201	1996	Short Term	Other	4.9
47201	1996	Short Term	Other	1.0
47201	1996	Short Term	Other	10.7
47201	1996	Short Term	Other	2.0
47201	1998	Short Term	Other	3.3
47201	2000	Post-Mitigation	Basement	0.8
47201	2000	Short Term	Basement	2.6
47201	2004	Short Term	Basement	6.5
47201	2001	Short Term	1st Floor	6.6
47201	2001	Short Term	1st Floor	3.0
47201	2001	Short Term	Basement	1.5
47201	2001	Short Term	Basement	10.4
47201	2001	Short Term	1st Floor	5.8
47201	2001	Post-Mitigation	Basement	0.9
47201	2001	Post-Mitigation	Basement	1.0
47201	2001	Short Term	Basement	2.9
47201	2000	Post-Mitigation	1st Floor	1.0
47201	2000	Post-Mitigation	1st Floor	1.0
47201	2000	Short Term	1st Floor	1.0
47201	2000	Post-Mitigation	Basement	0.2
47201	2000	Short Term	Basement	UNK
47201	2000	Post-Mitigation	Basement	1.6
47201	2000	Short Term	Basement	1.7
47201	2000	Post-Mitigation	Basement	1.0
47201	2000	Short Term	Basement	6.9
47201	2000	Short Term	Basement	6.9
47201	2000	Short Term	Basement	2.5
47201	2000	Short Term	Basement	2.4
47201	2002	0	Basement	1.7
47201	2002	0	Basement	3.6
47201	2002	0	Basement	2.4
47201	2001	Short Term	Basement	8.5
47201	2000	Short Term	0	3.2
47201	2000	Short Term	0	1.4
47201	2000	Short Term	0	1.4
47201				



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

	2000	Short Term	1st Floor	0.6
47201	2000	Short Term	1st Floor	0.5
47201	1994	Short Term	Other	7.7
47201	2000	Short Term	Other	7.0
47201	1999	Short Term	Other	7.6
47201	1996	Short Term	Other	7.4
47201	2004	Long Term	Basement	3.3
47201	0	Unknown	Other	13.1
47201	1994	Post-Mitigation	Other	1.1
47201	1997	Post-Mitigation	Basement	0.8
47201	1997	Post-Mitigation	Basement	1.8
47201	2001	Post-Mitigation	Basement	2.8
47201	2000	Post-Mitigation	1st Floor	1.0
47201	2000	Post-Mitigation	Basement	1.5
47201	2000	Short Term	Basement	1.5
47201	1994	Short Term	Other	5.1
47201	1997	Short Term	Basement	5.0
47201	1997	Short Term	Basement	5.2
47201	1997	Short Term	Basement	1.0
47201	1997	Short Term	Basement	2.1
47201	1997	Short Term	1st Floor	0.6
47201	0	Short Term	Other	8.7
47201	2000	Short Term	Basement	1.3
47201	2000	Short Term	Basement	3.2
47201	1996	Short Term	Other	3.1
47201	1996	Short Term	Other	2.7
47201	2001	Short Term	Basement	4.2
47201	2001	Short Term	Basement	7.1
47201	2000	Short Term	Basement	1.8
47201	2001	Short Term	1st Floor	1.4
47201	2000	Short Term	0	1.2

Federal EPA Radon Zone for BARTHOLOMEW County: 1

Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 47201

Number of sites tested: 7

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.500 pCi/L	83%	17%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	8.600 pCi/L	14%	86%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Public Water Supply Wells

Source: Department of Environmental Management

Telephone: 317-308-3323

Community and non-community drinking water wells.

#### Observation Wells Database

Source: Indiana Geological Survey

Telephone: 812-855-7636

Water Wells for Monitoring Ground Water in Indiana

#### Public Water Supply Wells

Source: Department of Environmental Management

Telephone: 317-308-3323

Community and non-community drinking water wells.

#### Water Wells Database

Source: Indiana Geological Survey

Telephone: 812-855-76

Shows data points that represent water wells contained in the Lithologic database, which is derived from the water well database of the Indiana Department of Natural Resources.

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: IN Radon

Source: Department of Health

Telephone: 317-233-7148

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater


Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### **STREET AND ADDRESS INFORMATION**

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# **Appendix D - Historical Research**



JT0460.710.0001

703, 711, 801, & Rear Lot of 2nd Street

Columbus, IN 47201

Inquiry Number: 5567149.3

February 20, 2019

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## Certified Sanborn® Map Report

02/20/19

**Site Name:**

JT0460.710.0001  
703, 711, 801, & Rear Lot of 2r  
Columbus, IN 47201  
EDR Inquiry # 5567149.3

**Client Name:**

August Mack Environmental, Inc  
1302 N. Meridian St.  
Indianapolis, IN 46204  
Contact: Elyse Baron



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by August Mack Environmental, Inc were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

### Certified Sanborn Results:

**Certification #** 1B8F-49EA-9251

**PO #** NA

**Project** JT0460.710.0001

**Maps Provided:**

1959	1886
1947	
1927	
1912	
1906	
1898	
1892	
1890	



Sanborn® Library search results

Certification #: 1B8F-49EA-9251

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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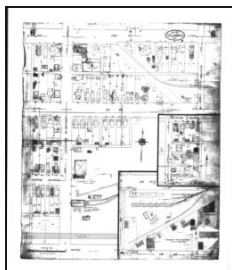
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## Sanborn Sheet Key

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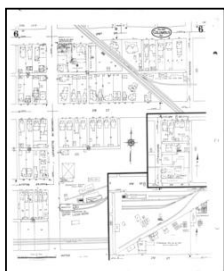


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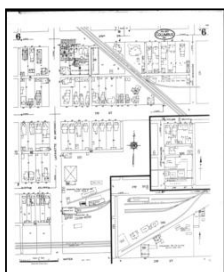
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1959

### 1947 Source Sheets



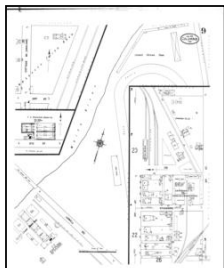
Volume 1, Sheet 6  
1947

### 1927 Source Sheets



Volume 1, Sheet 6  
1927

### 1912 Source Sheets



Volume 1, Sheet 9  
1912



Volume 1, Sheet 26  
1912



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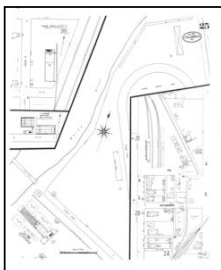
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### 1906 Source Sheets



Volume 1, Sheet 24  
1906

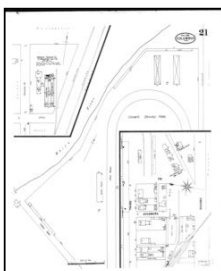


Volume 1, Sheet 25  
1906

### 1898 Source Sheets



Volume 1, Sheet 3  
1898



Volume 1, Sheet 21  
1898

### 1892 Source Sheets



Volume 1, Sheet 9  
1892

### 1890 Source Sheets



Volume 1, Sheet 9  
1890

## ***Sanborn Sheet Key***

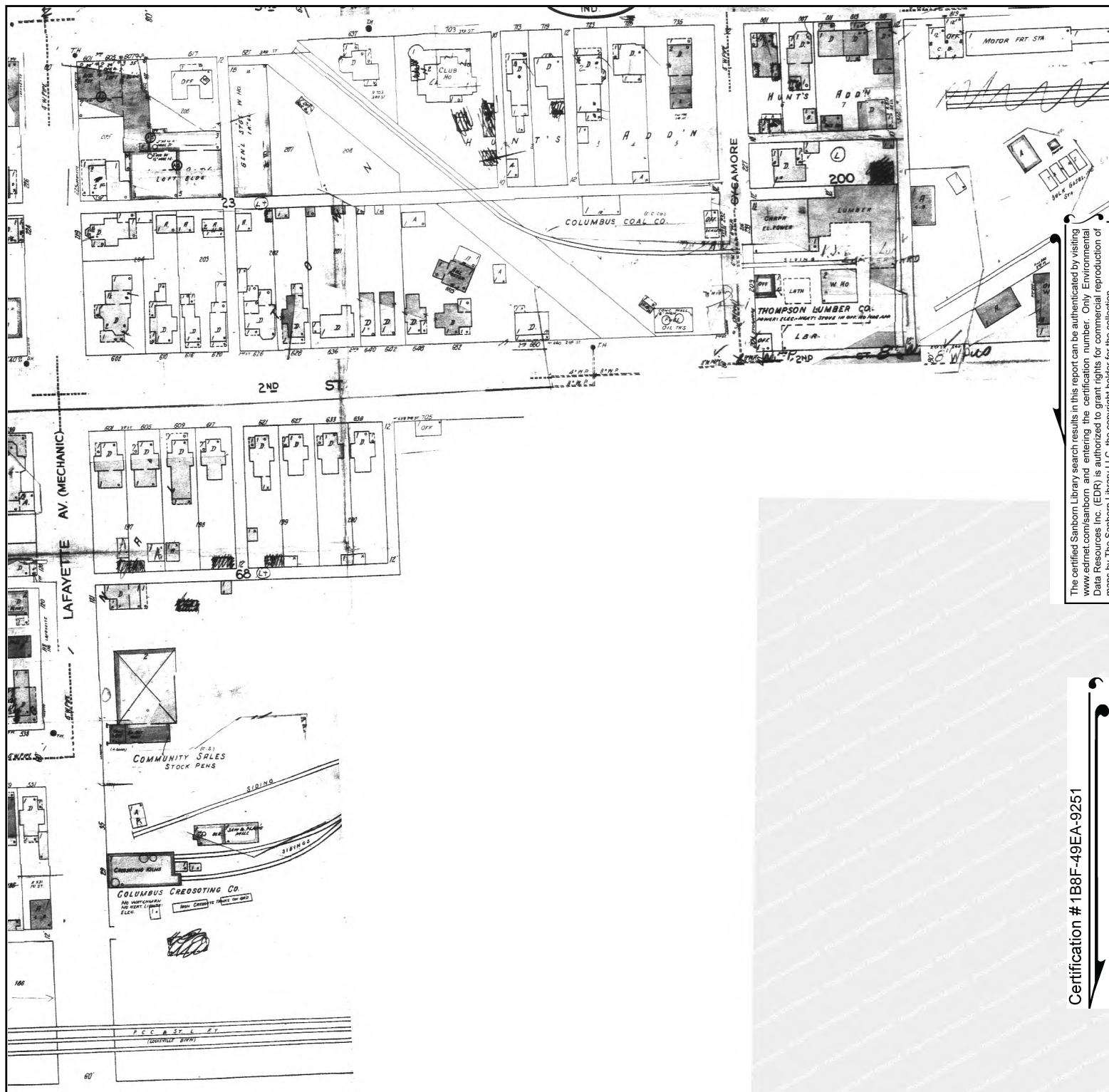
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### **1886 Source Sheets**



Volume 1, Sheet 6  
1886



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Site Name: JT0460.710.0001

Address: 703, 711, 801, & Rear Lot of 2nd Street

City, ST, ZIP: Columbus, IN 47201

Client: August Mack Environmental, Inc

EDR Inquiry: 5567149.3

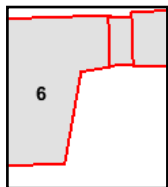
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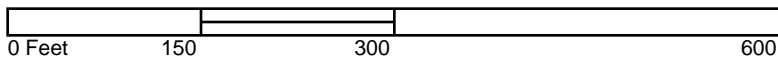
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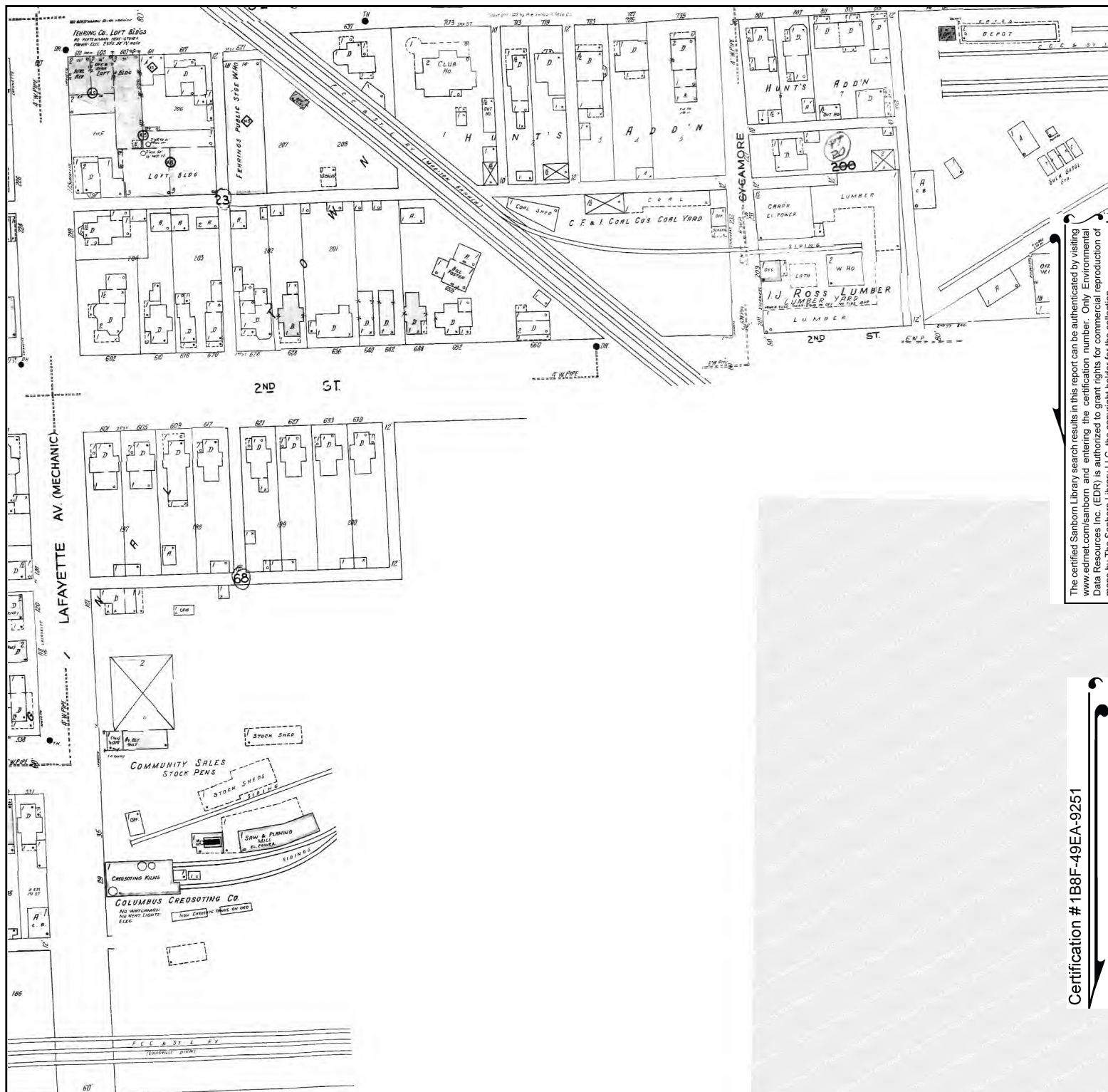


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Client: August Mack Environmental, Inc

EDR Inquiry: 5567149.3

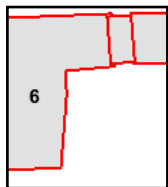
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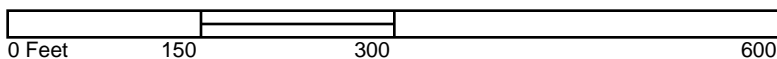
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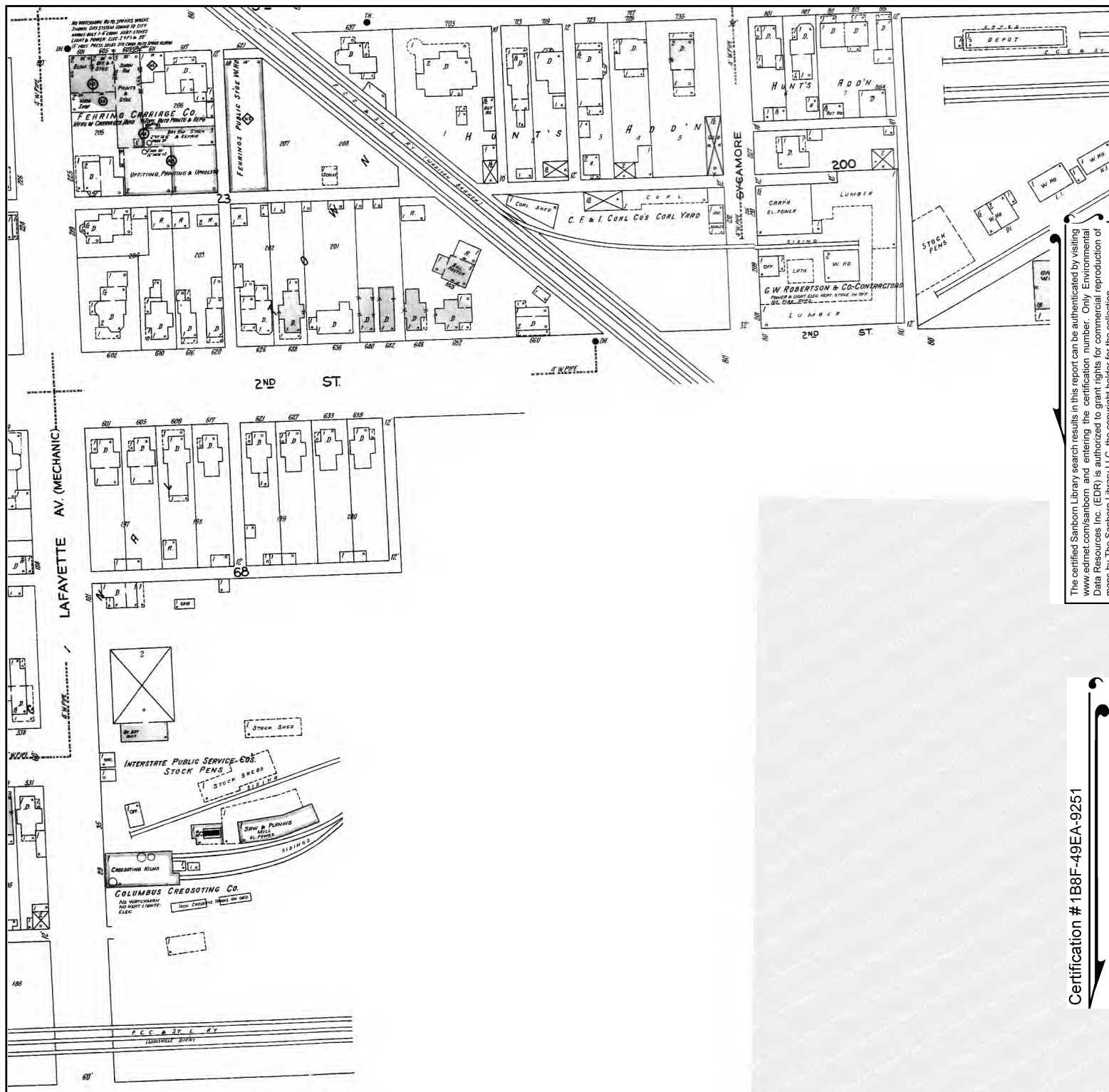
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Address: 703, 711, 801, & Rear Lot of 2nd Street

City, ST, ZIP: Columbus, IN 47201

Client: August Mack Environmental, Inc

EDR Inquiry: 5567149.3

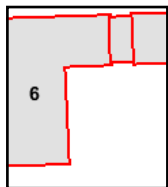
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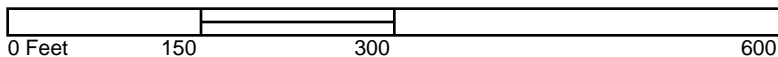
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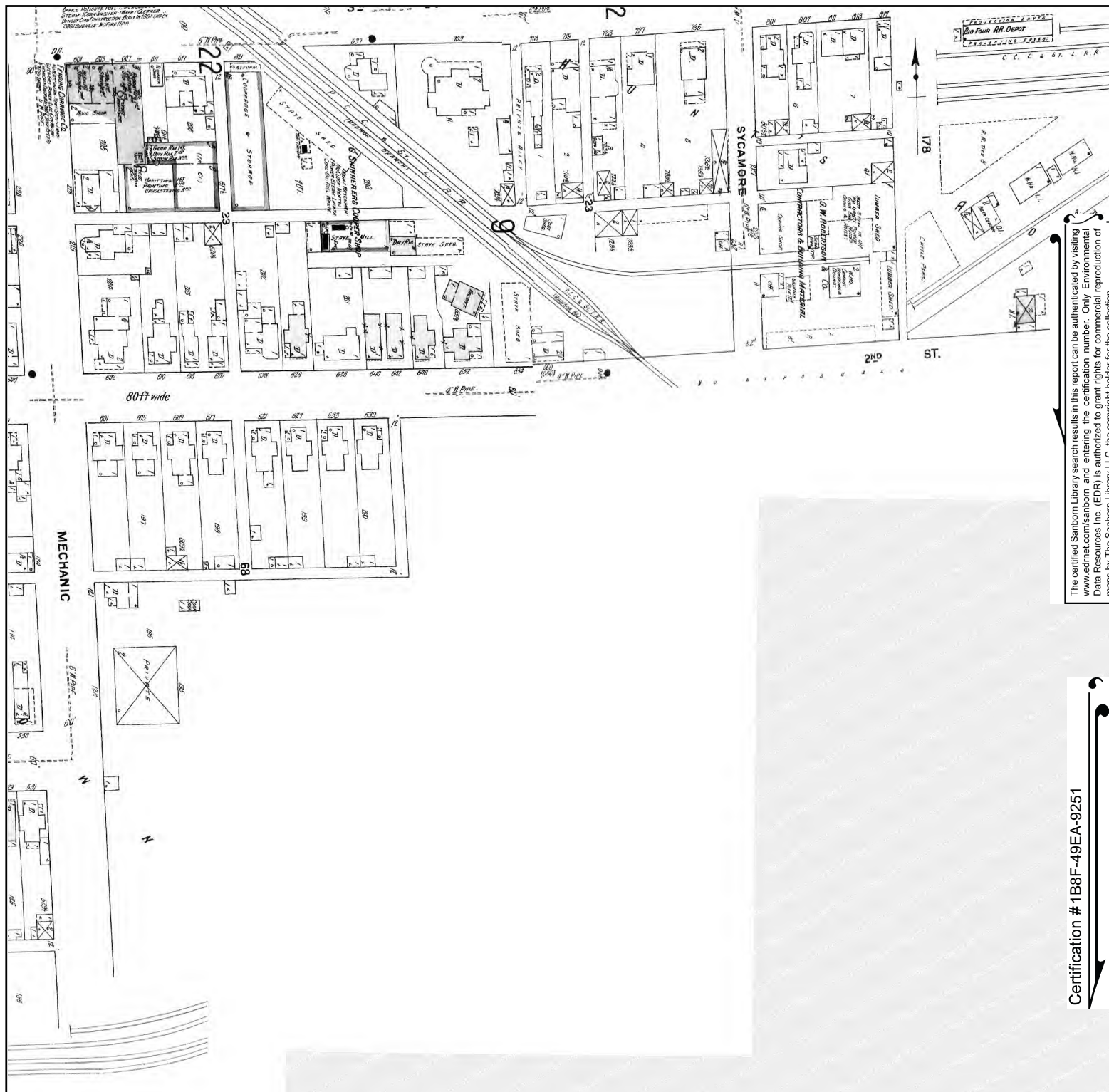


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City, ST, ZIP: Columbus, IN 47201

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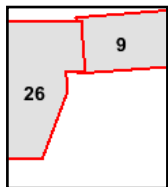
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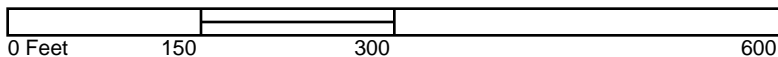
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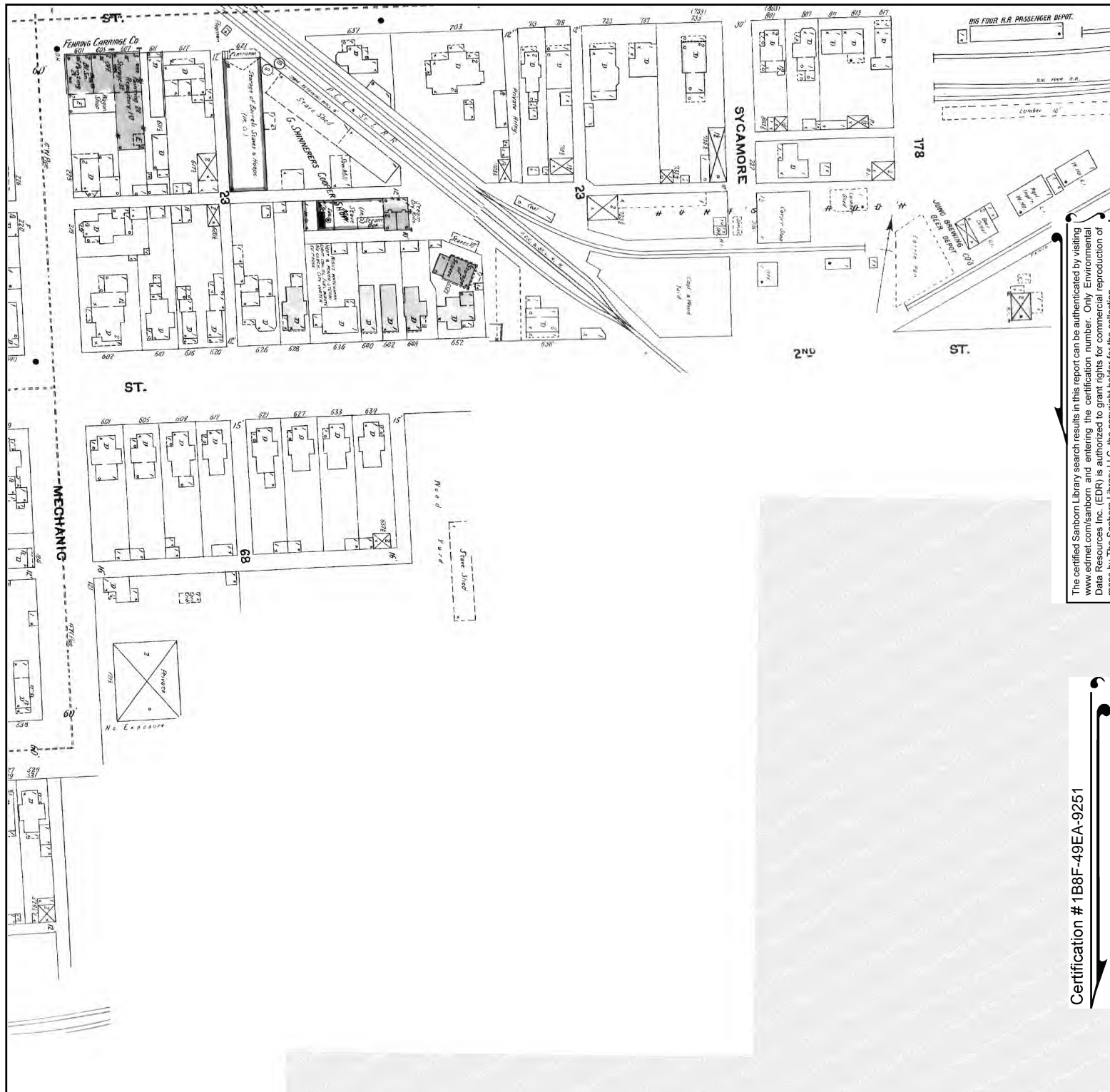
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Site Name: JT0460.710.0001

Address: 703, 711, 801, & Rear Lot of 2nd Street

City, ST, ZIP: Columbus, IN 47201

Client: August Mack Environmental, Inc

EDR Inquiry: 5567149.3

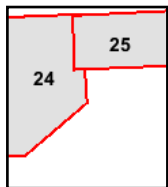
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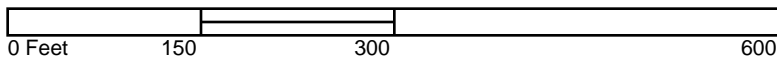
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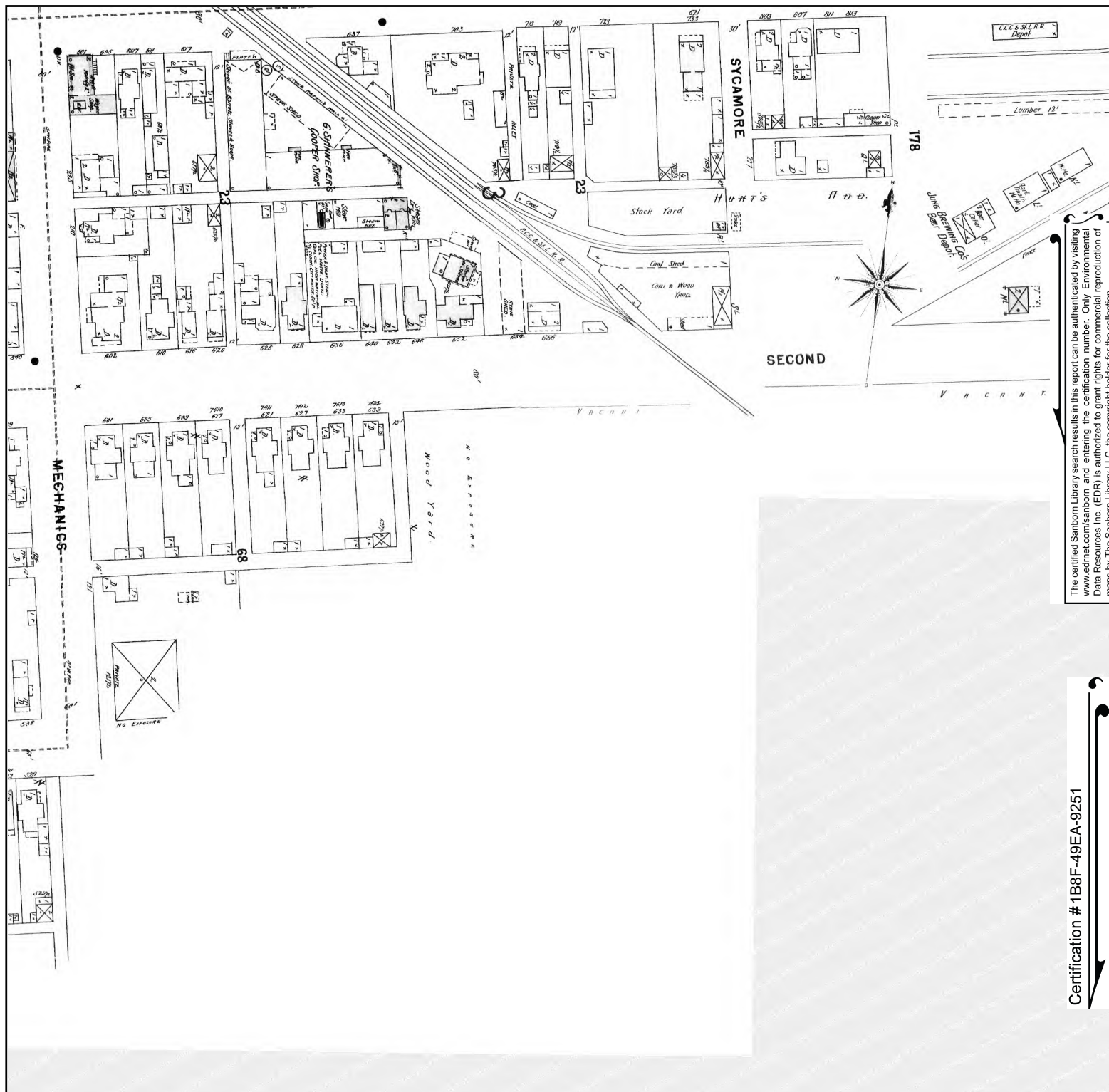


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Volume 1, Sheet 24





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Site Name: JT0460.710.0001

Address: 703, 711, 801, & Rear Lot of 2nd Street

City, ST, ZIP: Columbus, IN 47201

Client: August Mack Environmental, Inc

EDR Inquiry: 5567149.3

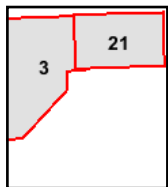
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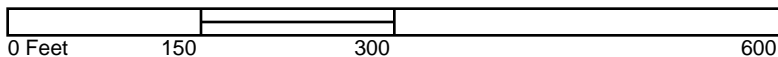
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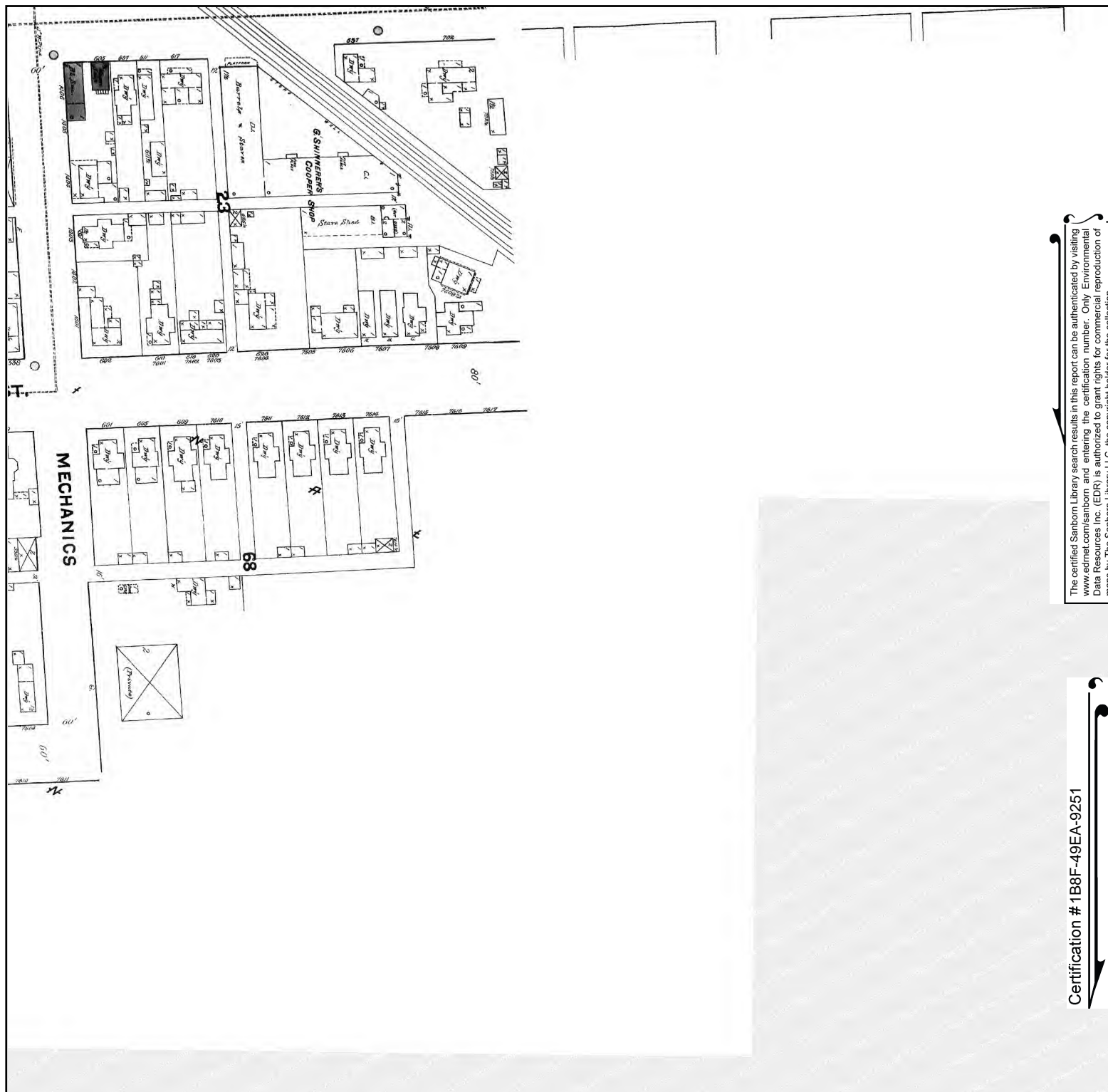


Volume 1, Sheet 21  
Volume 1, Sheet 3









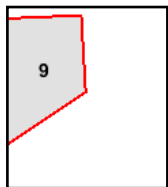
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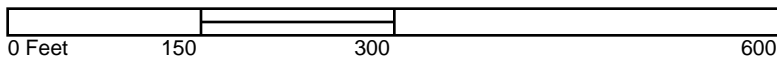
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 Address: 703, 711, 801, & Rear Lot of 2nd Street  
 City, ST, ZIP: Columbus, IN 47201  
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 EDR Inquiry: 5567149.3  
 Order Date: 02/20/2019  
 Certification # 1B8F-49EA-9251  
 Copyright 1890

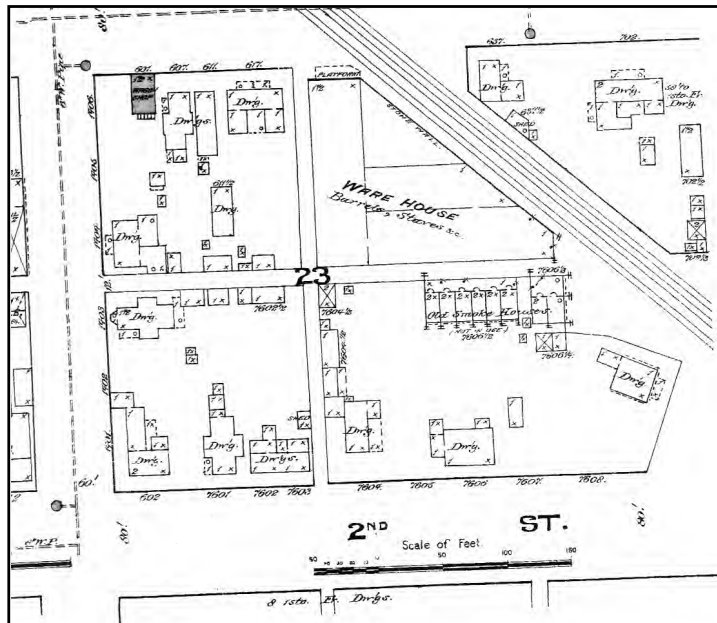


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Site Name: JT0460.710.0001

Address: 703, 711, 801, & Rear Lot of 2nd Street

City, ST, ZIP: Columbus, IN 47201

Client: August Mack Environmental, Inc

EDR Inquiry: 5567149.3

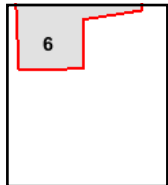
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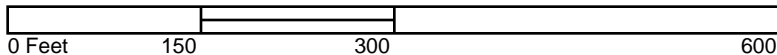
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Volume 1, Sheet 6



**JT0460.710.0001**

703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

Inquiry Number: 5567149.5  
February 21, 2019

## The EDR-City Directory Image Report

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Executive Summary

Findings

City Directory Images

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

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### RESEARCH SUMMARY

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<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
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2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
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1966	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Caron Directory Co
1961	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Caron Directory Co

## FINDINGS

### TARGET PROPERTY STREET

703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

#### 2ND ST

2014	pg A1	EDR Digital Archive
2010	pg A3	EDR Digital Archive
2005	pg A5	EDR Digital Archive
2000	pg A7	EDR Digital Archive
1995	pg A9	EDR Digital Archive
1992	pg A11	EDR Digital Archive
1986	pg A13	Caron Directory Co
1981	pg A15	Caron Directory Co
1976	pg A17	Caron Directory Co
1976	pg A18	Caron Directory Co
1971	pg A20	Caron Directory Co
1966	pg A22	Caron Directory Co
1961	pg A24	Caron Directory Co
1961	pg A25	Caron Directory Co

## FINDINGS

### CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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### LAFAYETTE AVE

2014	pg. A2	EDR Digital Archive
2010	pg. A4	EDR Digital Archive
2005	pg. A6	EDR Digital Archive
2000	pg. A8	EDR Digital Archive
1995	pg. A10	EDR Digital Archive
1992	pg. A12	EDR Digital Archive
1986	pg. A14	Caron Directory Co
1981	pg. A16	Caron Directory Co
1976	pg. A19	Caron Directory Co
1971	pg. A21	Caron Directory Co
1966	pg. A23	Caron Directory Co
1961	pg. A26	Caron Directory Co
1961	pg. A27	Caron Directory Co



## **City Directory Images**

**2ND ST      2014**

430	J ENTERPRISES INC
	J R PROMOTIONS LLC
	JR PROMOTIONS
	LANDAMERICA LAWYERS TITLE INSUR
	MARSHALL C RICHARD LAW OFFICE
543	BARTHOLOMEW COUNTY OF
606	BURRIS, CALEB
711	CUSTOM BRUSHED INC
828	PERCIFIELD INC
951	BUSINESS SVCS OF COLMBUS ACCTG
955	AMARI ARRANGEMENTS & GIFTS LLC

**LAFAYETTE AVE 2014**

17	QUINN, BRUCE
30	WADE, JUSTIN
423	GILBERT, MICHAEL S
429	BELDING, BRIAN P
604	HOLZHAUSEN, MARK C

**2ND ST      2010**

430	J ENTERPRISES INC
	J R PROMOTIONS LLC
	LANDAMERICA LAWYERS TITLE INSUR
	MARSHALL C RICHARD LAW OFFICE
503	LYKINS, LLOYD W
543	BARTHOLOMEW COUNTY OF
606	BURRIS, CALEB
711	CUSTOM BRUSHED INC
801	BARTHOLOMEW CTY RRL ELCTRC MMB
	BARTHOLOMEW REMC COMMUNITY TR
802	MALONE, JAMES D
806	HATFIELD CONSTRUCTION
	PHOENIX GUNS
820	KELLY, REBECCA A
828	PERCIFIELD INC
935	BUDGET AUTO PAINTING
955	AXSOM PLUMBING INC

**LAFAYETTE AVE 2010**

17	QUINN, BRUCE
30	WADE, JUSTIN
423	GILBERT, MICHAEL S
429	JACKSON, MATT J
604	HOLZHAUSEN, MARK C
	TUCKETT, ANDREW R

**2ND ST 2005**

430 DUNN MENTAL HEALTH CENTER  
J ENTRPRSES INN TYLRSVILLE LLC  
MARSHALL C RICHARD LAW OFFICE  
MEYER STAMPING & MFG INC

503 LYKINS, LLOYD W

506 PHILYAW, SALLY L

543 BARTHOLOMEW COUNTY OF

601 KIEFNER, JAMES D

606 GREENLEE, TONY

610 WISE AUTO SALES

702 FIFE, JERRY

703 RHINO SALES INC

704 DANFORTH, BILL K

708 NEIL, BOBBIE

711 CUSTOM BRUSHED INC

801 BARTHOLOMEW COUNTY REMC  
BCREMCNET LLC

802 MALONE, J D

804 GARDNERS AUTO REPAIR

806 HATFIELD CONSTRUCTION  
PHOENIX GUNS

820 KELLY, REBECCA A

828 AUTO AC SVC & PARTS  
PERCIFIELD INC

867 TNT EEPRESS LLC

935 MURRAY MARK

947 WINTERS ASSOC PROMOTIONAL PDTS

951 LOUDEN LISA A

**LAFAYETTE AVE 2005**

30	WADE, JUSTIN
429	TRUEBLOOD, MICHAEL
604	PRATHER, JEAN A

**2ND ST      2000**

430	COMMERCIAL TECHNICAL SVCS INTL
	HERITAGE FUND OF BRTHLMEW CNTY
	J ENTRPRSES INN TYLRSVILLE LLC
	MARSHALL C RICHARD LAW OFFICE
	MEYER STAMPING & MFG INC
	MILLIE CORBIN-BEVERLY
	REVENUE INDIANA DEPARTMENT
	ROMAN HOLDINGS LLC
543	BARTHOLOMEW COUNTY OF
703	RHINO SALES INC
711	CUSTOM BRUSHED INC
801	BARTHOLOMEW COUNTY REMC
804	GARDNERS AUTO REPAIR
	RYDER TRUCK RENTAL INC
806	HATFIELD CONSTRUCTION
	PHOENIX GUNS
828	PERCIFIELD INC
935	RUN RITE SMALL ENGINES INC
947	WINTERS ASSOC PROMOTIONAL PDTS
951	LOUDEN LISA A
955	TELESERVICE PLUS INC



**LAFAYETTE AVE 2000**

429 HENDERSON, TRUMAN  
604 HARMON, PEGGY J  
PRATHER, JEAN A

**2ND ST 1995**

420	LINDE HOMECARE MEDL SYSTEMS
430	HERITAGE FUND OF BRTHLMEW CNTY
	INDIANA DEPARTMENT OF REVENUE
543	BARTHOLOMEW COUNTY
636	BESHEAR, KENNETH H
650	ALWARD, TIM
711	BOBS CUSTOM BRUSHED CAR WASH
801	BARTHOLOMEW COUNTY REMC
802	UHL, WILLIAM F
804	GHM ENTERPRISES INC
	RYDER TRUCK RENTAL INC
828	BERCIFIELD RADIATOR SHOP
	PERCIFIELD INC
832	LEE S BEAR ALIGNMENT
867	PREMIER AG CO-OP INC
951	J D TRUCKING INC
955	TELESERVICE PLUS INC
1040	PRATHER, TERRY D

**LAFAYETTE AVE 1995**

30	GILES, TERRI
415	ROSEBERRY, LARRY
423	ANGLIN, C
425	BROWNE, DOUGLAS
429	OCCUPANT UNKNOWNN
604	PRATHER, M
	WILLEY, FERN

**2ND ST 1992**

430	HERITAGE FUND OF BRTHLMEW CNTY
	JASILK INC
	SHENMEI INC
543	BARTHOLOMEW COUNTY
711	BOBS CUSTOM BRUSH CAR WASH
801	BARTHOLOMEW COUNTY REMC
804	GHM ENTERPRISES INC
	RYDER TRUCK RENTAL INC
806	ALWAYS FLOWERS
828	BERCIFIELD RADIATOR SHOP
	PERCIFIELD RADIATOR SHOP
832	LEE S BEAR ALIGNMENT
935	SERVICE MSTR LAWN CARE BY RNGE
955	RODDIES JANITORIAL SERVICES

**LAFAYETTE AVE 1992**

30	COWAN, TERRI
423	ANGLIN, C
425	SANFORD, HARRY
608	COOK, ELLA
	WISSMAN, ROBERT F

## 2ND ST 1986

- 7 617 Vacant  
 633 Hinkle Real Estate 379-4859  
 Hinkle Signs 379-4497  
 639 Estes Lillie J  
 SYCAMORE ST BEGINS
- 2
- 711 Bob's Custom-Brushed Car  
 Wash Inc 372-3570
- 801 Bartholomew County Rural  
 Electric Membership Corp  
 light & power co 372-2546
- 806 Bartholomew County Rural  
 Electric Membership Corp  
 operations dept
- 9 828 Percifield's Radiator Shop  
 372-1442  
 Percifield Air Conditioning  
 Service auto 372-2505
- 832 Lee's Alignment 376-0133
- 947 U S Dept Of Agrl Soil  
 Conservation Service  
 378-1282
- 951 Farmers Home Administration  
 lending agcy low income  
 farmer 378-1281
- 955 U S Dept Of Agrl (Agrl  
 Stabilization-Conservation)  
 378-1280
- 7 CALIFORNIA BEGINS  
 VOLLMER AV BEGINS
- 1040 Woody's Lounge 372-4949
- 1075 Farmers Marketing  
 Association Inc agrl  
 implement dlrs 379-9501  
 Farmers Marketing  
 Association (Oil Pumps)  
 STATE STREET BRIDGE

17

3D ST —FROM LINDSEY EAST

AUCTIONEERS • REALTORS

## LAFAYETTE AVE 1986

120

9

**LAFAYETTE AV —FROM 410  
WATER NORTH****ZIP CODE 47201****30 Vacant****CONRAIL CROSSES****1ST ST ENDS****101 Vacant****118★Kinard Mark D****120 Vacant****121★Kimsey Loren D****2D ST INTERSECTS****205 Highway Oil Co (Side Ent)****224 Graham Todd Mtr Co  
(Parking Lot)****3D ST INTERSECTS****305 Dairy Queen Drive-In  
parking lot**

7

0

**4TH ST INTERSECTS****423 Anglin Clifford S Rev ©  
372-6790****423½★Sanford Harry A Jr****425★Hopkins Dallas****★Narwald Kathy 376-9701****429 Apartments****2 Vacant****3 Vacant****5TH ST INTERSECTS**

1

**2ND ST 1981****379-2970****617★Plemon Lloyd 372-3084****621 Dailey June 372-3871****627 Greenlee Penelope S Mrs  
376-0182****633 Vacant****639★Axsom Opal 372-7184****SYCAMORE ST BEGINS****2****705 Bob's Custom-Brushed Car  
Wash (Stge)****711 Bob's Custom-Brushed Car  
Wash 372-3570****801 Bartholomew County Rural  
Electric Membership Corp  
light & power co 372-2546****806 Bartholomew County Rural  
Electric Membership Corp  
addl sp****808 Sipes Oil Co Inc (Div Pottorff  
Oil Corp) 376-7594****828 Percifield's Radiator Shop  
372-1442****832 Lee's Alignment 376-0133  
CALIFORNIA BEGINS  
VALLMER AV BEGINS****1040 Arts Liquors 372-4949****1075 Farmers Marketing  
Association Inc farm sup  
379-9501****Farmers Marketing  
Association (Oil Pumps)****STATE STREET BRIDGE**



**LAFAYETTE AVE 1981****4022 Crusier Timothy M ©****9****LAFAYETTE AV —FROM 410  
WATER NORTH****ZIP CODE 47201****30 Vacant****1ST ST ENDS****101 Farmers Marketing Assn  
(Stge)****118 Ridgley Lorman B 376-6139****120 Gray Bruce****121 Long Herman C 372-1448****2D ST INTERSECTS****205 Highway Oil Co (Side Ent)****8 224 Young Rodney painting contr  
372-7427****3D ST INTERSECTS****305 Dairy Queen Drive-In  
(Parking)****7****4TH ST INTERSECTS****423 No Return****425★Brosseau Linda Mrs****425½★Frownfelter S****427 Apartments****1 Edgecomde Hazel Mrs  
372-4797****20 2 Noe Bobbi J****3 Nagel Florence****4 Vacant****429 Apartments****2 Minor Florence B 372-0869****3 Cowles Florence****4★Rahn Wendy****5 Dohn****6 Stewart Mary 372-6742****5TH ST INTERSECTS****421 Terrace Lake Rd.****Tel. 342-471**

2ND ST 1976

youth org 376-9295

515 Vacant

515½ Ellington Fred 379-9733

523 Long Clarence 372-1273

525★Mc Cauley John

535 Wright's Clark Service Station  
379-2919

## LAFAYETTE AV INTERSECTS

601 Brummett Hyder © 379-9430

605 Clark Ruth B 372-7915

609 Rea Leonard L

610 Highway Oil Co Station 726  
379-2970

617 No Return

621★Webb Jay D

7 627 Vacant

633★Hardin James W

639 Hagan Patricia E Mrs

## SYCAMORE ST BEGINS

2

705 Vacant

BLOCK INC

Phor

3 Keller Avenue

## 2ND ST 1976

2	2D ST—Contd	440
	711 Bob's Custom-Brushed Car Wash 372-3570	F1
	801 Bartholomew County Rural Electric Membership Corp	507
	light & power co 372-2546	524
	806 Groh Instant Copy offset prntg 376-0030	527
	808 Standard Oil Co 376-7594	535
	828 Percifield's Radiator Shop 372-1442	541
	CALIFORNIA BEGINS	542
	VALLMER AV BEGINS	L.
	1075 Farmers Marketing Association Inc farm sup 379-9501	600
	Farmers Marketing Association (Oil Pumps)	611
	STATE STREET BRIDGE	616
		622
		624
		624
		628
t on ad		17



**LAFAYETTE AVE 1976**

2081 vacant

**9****LAFAYETTE AV —FROM 410  
WATER NORTH****ZIP CODE 47201****30 Elkins Wm 372-6471****1ST ST ENDS****101 Farmers Marketing Assn  
(Stge)****118 Vacant****120 Vacant****121 Long Herman C 372-1448****2D ST INTERSECTS****205 Highway Oil Co (Side Ent)****224 Baurichter Eleanor M ©  
379-9466****226 Smith Hattie****3D ST INTERSECTS****305 Dairy Queen Drive-In  
(Parking)****7****4TH ST INTERSECTS****423 Warner Edw A ©****425 Hehman Bertha L****425½ Lucas Ethel M****427 Apartments****1★Edgecomde W H Mrs****2★Krieg Judy K****3 Vacant****4 Lentz Paul E 376-0419****429 Apartments****2 Minor Florence B 372-0869****3 Cowles Florence****4 Gilham Betty L****5 No Return****6★Thompson Cathy S****5TH ST INTERSECTS****1****6TH ST INTERSECTS****604★Sandford Sheridan 376-3867****608 Ricketts Russell L © 372-5534****609 Lyster Mabel R Mrs ©  
379-4364****611 Dobbins Marybelle K Mrs ©  
379-4336****612★Mullins Charles W ©  
372-6820**

## 2ND ST 1971

## 3D ST—Contd

507 Elks Club No 521 379-4386

524 Bartholomew County  
Museum

527 Weber Bob ©

535 Vacant

541 Junior Achievement

542 National Ice Co 376-3346

LAFAYETTE AV

INTERSECTS

600 Triangle Service Station

376-6365

616 Dairy Queen 372-9601

624 Smith Ray 372-0807

624½ Holcomb Clara B Mrs  
372-1297628 Arab Termite & Pest  
Control Co Inc 376-7575628½ Hinderliter Robt J  
376-7327

## PEARL ST BEGINS

702 Vacant

703 Knights Of Columbus Hall  
376-7069Knights Of Columbus Club  
376-7069Columbus Council No 1414  
(K Of C) 376-7069706 Wagner Realty 372-8445  
Sorrels Jerome M 376-6291

713 Horn Wilbur L © 379-9284

713½ Middendorf Robt E  
376-3185

714 Wagner Edw C © 376-3233

714½ Jones Marguerite 376-3933

719 Lewis Marion A

723 Jump R W 372-5188

723½ Mydland Ella M Mrs  
379-4935

724 Lou La Bill's 372-8917

725 Voelz Geo E 372-6585

728 Bloomenstock Matilda ©  
372-4992

728½ Wright John T

730 Frohman Harry © 376-7885

735 Ideal Barber Shop 372-1340  
Turner Carl H © 372-1340

738 Frohman Lillian © 376-3157

745 Adkins Louis

## SYCAMORE ST INTERSECTS

801 Jordan Roger L 372-7052

804 Tibbs Paul K 379-9751

804½ Tibbs Clarence 372-4950

807 Cable Mable

808 Stover Herbert O 376-8859

812 Ballard Horace Jr

814 Ballard Horace G

816 Cherry Donald N

818 Bramble Ralph 372-6882

826 Moore Garlen N © 379-9968

828 Thomas Donald H ©  
376-6683832 Nordman Martin G ©  
376-6871834 Phillips Thos E 372-9357  
Posey A

2

## CHESTNUT BEGINS

901 Farm Bureau Insurance  
372-4483

910 No Return

924 Tag's Marathon 372-6284

935 Dunn J D Inc remodeling  
specialists 372-8885

## CALIFORNIA BEGINS

## PENN CENTRAL CROSSES

1013 Vacant

1015 Goltra Cline & King lwyrs  
372-84611017 Thompson Sporting Goods  
372-4747

## VALLMAR INTERSECTS

1024 Cummins Eng (Parking Lot)  
HAW CREEK BRIDGE

17

3D ST W —FROM 101 3D  
WEST

## ZIP CODE 47201

10 Thorpe's Sunoco Service  
376-7214

## HAWCREEK BRIDGE

## STATE HIGHWAY 31 S

15

4TH ST —FROM ARNOLD  
EAST

## ZIP CODE 47201

15 Vacant

102 Vacant (Bldg 102-103)

103 Vacant

107 United Systems Inc (Motor  
Pool) 372-0858

801 2nd St.

Tel. 372-1715

Lafayette



**LAFAYETTE AVE 1971**

108

**KENTUCKY AV—Contd**

2801 Rukes Zora B © 372-1166  
 2805 Burton Gordon © 376-7329  
 2825 Noblitt Roy © 372-5378  
 2875 Vacant  
 2895 Raley Welba C © 372-9161  
**WEHMEIER ENDS**  
 2905 Stewart Larry L  
 2925 Noblitt Donald 372-9742  
 2945 Roth Lester H © 372-9886

6

**KERR AV —FROM END OF  
 4TH N, WEST OF  
 PLEASANT GROVE**

ZIP CODE 47201  
 322 Cummins Engine Co (Annex)

7

**LAFAYETTE AV —FROM 410  
 WATER NORTH**

ZIP CODE 47201  
**1ST ST ENDS**  
 101 Farmers Marketing Assn  
     (Stge)  
 118 Vacant  
 120 Vacant  
 121 Long Herman C 372-1448  
 124 Strobeck Wm G  
 Rear Patton Rosalie Mrs  
     376-6452  
 124½ Vacant  
**2D ST INTERSECTS**  
 205 Elkins John 372-4058  
 205½ Nelson Robt  
 219 Elkins Wm 372-9687  
 221 Vacant  
 223 Golden Hershall  
 224 Baurichter Eleanor ©  
     379-9466  
 226 No Return  
 226½ Vacant  
**3D ST INTERSECTS**  
 305 Dairy Queen Drive-In  
     (Parking)  
**4TH ST INTERSECTS**  
 423 Vacant  
 425 Walls Mary J 372-8362  
 425½ Higgins Le Ann 372-6855  
 427 Apartments

1 Kelly L Blanche Mrs  
     372-3614  
 2 Greene John A 372-0069  
 3 Ferringer Bernard 372-4394  
 4 Graham Cheryl 372-2388  
 429 Apartments  
 2 Minor Florence 372-0869  
 3 Cowles Florence Mrs  
     372-1327  
 4 No Return  
 5 Boswell Don 379-4625  
 6 Cooper Bob  
**5TH ST INTERSECTS**

1

**6TH ST INTERSECTS**  
 604 Murphy Theo S © 379-9126  
 604½ Richardson Brent 372-5580  
 608 Yadon Elwood G 372-6765  
 609 Lyster Mabel R Mrs ©  
     379-4364  
 611 Dobbins Marybelle K Mrs ©  
     379-4336  
 612 Childers Webster 372-9303  
 616 Whitehorn Elsie M Mrs ©  
     376-8498  
 619 Brandenburger Harold J ©  
     379-9428  
 621 Faulkner W Edw ©  
     372-5486  
 623 Frohman Amson © 376-3985  
 624 Hawes Earl W © 376-3248  
 625 Lawson Ellamae Mrs  
 628 Shumaker Josephine H Mrs  
     376-3531  
 632 Seward Evelyn C ©  
     379-4638  
 637 Apartments  
 1 Scott John C 376-6542  
 2 Mc Kee Michael  
 3 Robinson Ron 372-0625  
 4 Artis Carolyn  
 5 Stamper Bill  
 6 Boggs Gary  
 7 Michael Dan  
 8 Leas Elmer G  
 9 Starke David  
 10 Goins David L  
 638 Pearce Agnes Mrs ©  
     372-1203  
 644 Billman Ralph C 372-6394  
 645 Brown Anna N Mrs ©  
     376-3244

**STADLER PACKING CO Inc**

## 2ND ST 1966

2D—Contd

639 Vacant

640 Campfield Ida Mrs

Campfield Morris jr truck-  
ing

642 Sanford Wm F

648 Vacant

652 Condon Jesse W

652½ Fields Thos

660 Truex Harley C 376-6191

Sycamore begins

705 Cols Wood Preserving Co  
372-4441801 Bartholomew County Rural  
Elec Membership Corp  
372-2546806 Ward-Schlichter Co autos  
372-8246808 Standard Oil Co (bulk plant)  
376-7594828 Schneider Implt Co (whse)  
376-31251012 Jenkins Edith A Mrs  
376-8281

Matthews Margt E Mrs

Vollmer av begins

1131 Farmer's Marketing Assn  
(oil pumps)1136 Farmers Marketing Assn  
Inc 379-95011203 Ziegler Boat Co bldr 372-  
2112

State Street Bridge

1B1



**LAFAYETTE AVE 1966**322-412 Cummings Eng Co (air-  
nex)**1****LAFAYETTE AV — From south  
of Water north, 2 east of Wash-  
ington**

20 Vacant

**1st ends**101 Farmers Marketing Asso-  
ciation (stge)118 Hammond Evelyn Mrs 372-  
6112

120 Stillabower Arnold J

121 Long Herman C 372-1448

124 Strobeck Wm G 372-5024

rear Wade David

124½ Burton Wm J

**2d intersects**

202 Vacant

219 Barger Willie M Mrs 372-  
5825

221 Vacant

223 Zamparria Ellamae Mrs

224 Baurichter Eleanor © 379-  
9466

225 Macy Dean L 372-5193

**3d intersects**

305 Serv-Ice (parking)

321 Vacant

**4th intersects**

423 No return

425 Sullivan Deanna M

425½ Lunebrink Fredrick R

427 Simpson Patricia

427½ Anderson Sheila  
James Diana S**429 Apartments**

2 Vacant

3 Smith Martha

4 Harman Dorothy

5 Goodin Chas T

6 Kuzatz Klaus D

**5th intersects**

528-34 City Park

**6th intersects**

603 Vacant

604 Murphy Theo S © 379-9126

604½ Abel Geo

608 Gray Russell

609 Lyster Mabel R Mrs © 379-  
4364**0 DELICATESSA**



## 2ND ST 1961

540 Schaefer Frank J ©	
△ DR9-9442	2
Lafayette av intersects	
601 Bland Raymond E ©	2
△ DR2-1259	2
602 Termehlen Alta M Mrs ©	
△ DR6-6692	2
605 Brummett Hyder △ DR9-9430	
609 Frohman Maurice ©	2
△ DR6-7741	2
610 King Benj M △ DR6-4841	
616 Merle Eva B △ DR6-8447	2
617 Jordan Estella R Mrs	
△ DR2-6564	
620 Ash Maurice	
621 Arney Walter H △ DR2-1191	3
622 Joslin Lizzie Mrs ©	
△ DR6-6416	3
623 Vacant	3
628 Spicer Harry © △ DR6-3606	3
633 Pardieck Ronald L △ DR2-2304	3
636 Jines Pearl Mrs	
639 No return	
640 Holden Jack J	
642 McCoy Wm F	
648 Garland Russell J	
△ DR2-6147	3
652 Shaw Chester H △ DR2-3469	3
660 Truex Harley C △ DR6-6191	
Sycamore begins	3
702 Vacant	
705 Cols Wood Preserving Co	3
△ DR2-4441	
801 Bartholomew County Rural	3
Elec Membership Corp	3
△ DR2-2546	

2ND ST 1961

ME FUEL OIL

Phone DR exel 6-4218

808 Standard Oil Co (bulk plant)

△ DR6-7594

828 Schneider Implt Co (whse)

1012 Jenkins Edith Mrs

△ DR6-8281

Matthews Margt E Mrs

Giden Sylvester

Vollmer av begins

1131 Farmer's Marketing Assn

(oil pumps)

1136 Farmers Marketing Assn

Inc (farm bur) △ DR9-9501

1203 Zeigler John A © boat bldr

△ DR2-2112

State Street Bridge

1

3D — From west of Brown east to

## LAFAYETTE AVE 1961

472 Brockman Jas Δ DR2-7554

62

LAFAYETTE AV — From south of  
Water north to 27th, 2 east of  
Washington

62

62

20 Kennys Auto Serv repr  
Δ DR2-6414

62

30 Campfield Chas


62

1st ends



## LAFAYETTE AVE 1961

6 101 Producers Marketing Assn  
 S livestock Δ DR6-3521  
 v 118 Hammond Evelyn Δ DR2-6112  
 - 120 Brown J Glen Δ DR2-3111  
 121 Long Herman C Δ DR2-1448  
 124 Young Robt H  
 s 124½ Smith Lacy D Δ DR2-7407  
 s 2d intersects  
 s 205 Termehlen Alta M Mrs ©  
 s Δ DR6-6692  
 ) 219 McKenney W Rex Δ DR2-1330  
 s 221 Vacant  
 s 223 Vanest Harold W Δ DR2-3845  
 0 224 Settles Russell Δ DR9-9848  
 3 225 Myrich Ida Mrs  
 0 225½ Freeman Jerry L  
 s 226 Howe Kenneth Δ DR9-9224  
 0 226½ Vacant  
 3d intersects  
 305 Serv-Ice (parking)  
 ls 321 Adams Auto Repair Shop  
 4 Δ DR9-9340  
 4th intersects  
 ne cor Vacant  
 ls 423 Johnson Wm B ©  
 Δ DR9-9264  
 425½ Dietz Muriel Mrs  
 Δ DR2-6338  
 Goetcheus Florence M Mrs  
 Δ DR12-1165  
 6 427 Ledford Ralph E Δ DR6-8480  
 to 427½ Vacant  
 429 Apartments  
 6 2 No return  
 3 No return  
 4 Jung Norman O  
 5 Vacant  
 5th intersects  
 528-34 City Park  
 6th intersects  
 603 Atwood H Mason © Δ DR6-7554  
 603½ Vacant  
 604 Murphy Theo S © Δ DR9-9126  
 36 604½ Foster Billy J Δ DR6-7776  
 32 608 Harman Kath Mrs ©  
 Δ DR6-4625  
 609 Lyster Mabel R Mrs ©  
 Δ DR6-4364  
 611 Dobbins Marybelle K Mrs ©  
 Δ DR6-4336  
 612 Marshall Chas S Δ DR6-3259  
 616 Whitehorn Elsie M Mrs ©  
 Δ DR6-8498  
 619 Brandenburger Harold J ©  
 Δ DR9-9428  
 621 Burns J Francis ©  
 Δ DR6-3462  
 623 Linson Daisy M © Δ DR6-3985  
 of 624 Hawes Earl W © Δ DR6-3248  
 of 625 Davis Amy C Mrs drsmkr  
 Δ DR6-3981  
 628 Schumaker Albert E  
 Δ DR6-3531  
 ds 632 Seward Evelyn C ©  
 Δ DR6-4638



**JT0460.710.0001**

703, 711, 801, & Rear Lot of 2nd Street

Columbus, IN 47201

Inquiry Number: 5567149.8

February 20, 2019

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## EDR Aerial Photo Decade Package

02/20/19

**Site Name:**

JT0460.710.0001  
703, 711, 801, & Rear Lot of 2r  
Columbus, IN 47201  
EDR Inquiry # 5567149.8

**Client Name:**

August Mack Environmental, Inc  
1302 N. Meridian St.  
Indianapolis, IN 46204  
Contact: Elyse Baron



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

### Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=500'	Acquisition Date: March 27, 1998	USGS/DOQQ
1992	1"=500'	Flight Date: March 23, 1992	USGS
1987	1"=1000'	Flight Date: August 18, 1987	USGS
1978	1"=1000'	Flight Date: April 07, 1978	USGS
1962	1"=500'	Flight Date: March 27, 1962	USGS
1960	1"=500'	Flight Date: January 16, 1960	USGS
1955	1"=500'	Flight Date: October 10, 1955	USDA
1952	1"=1000'	Flight Date: July 28, 1952	USGS

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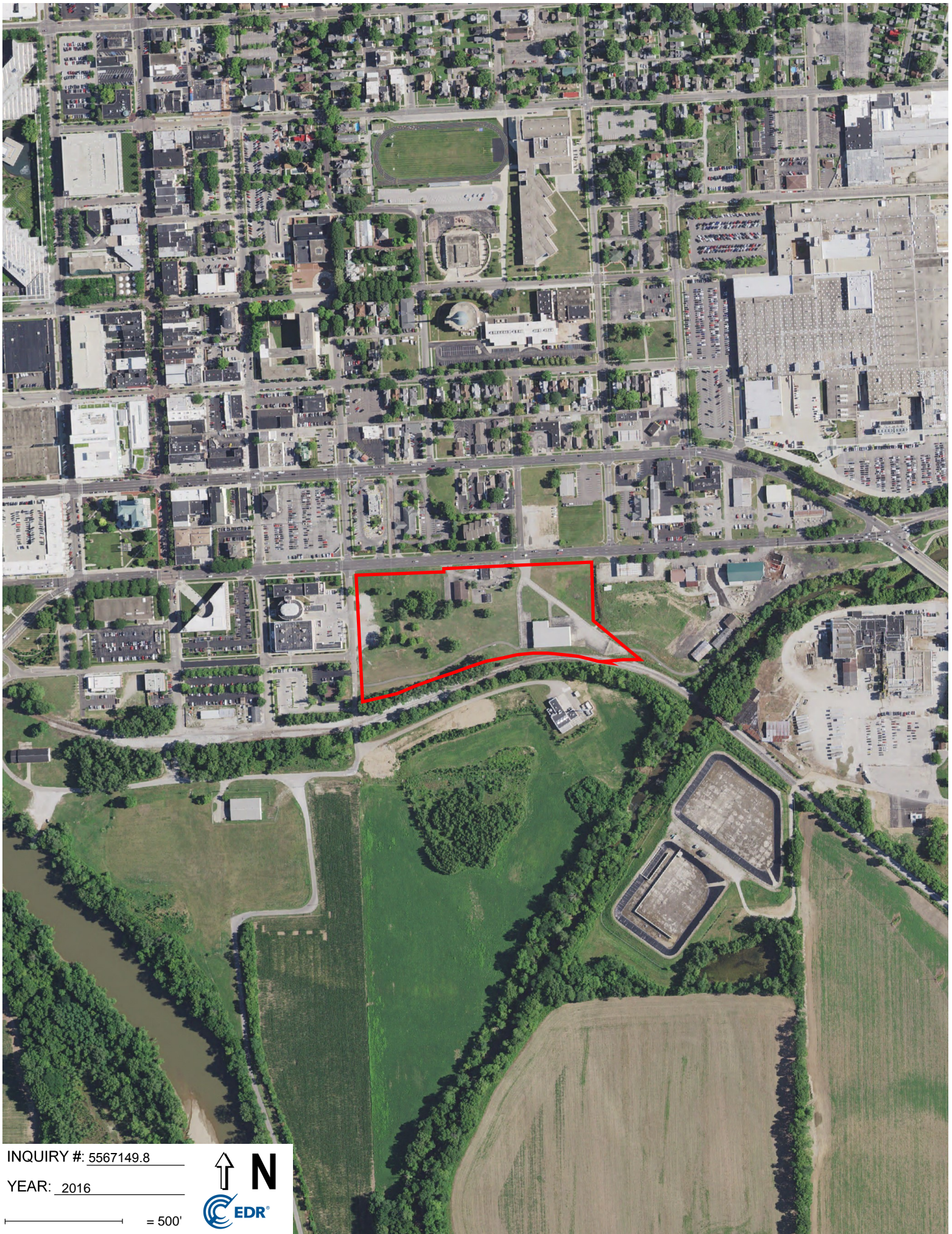
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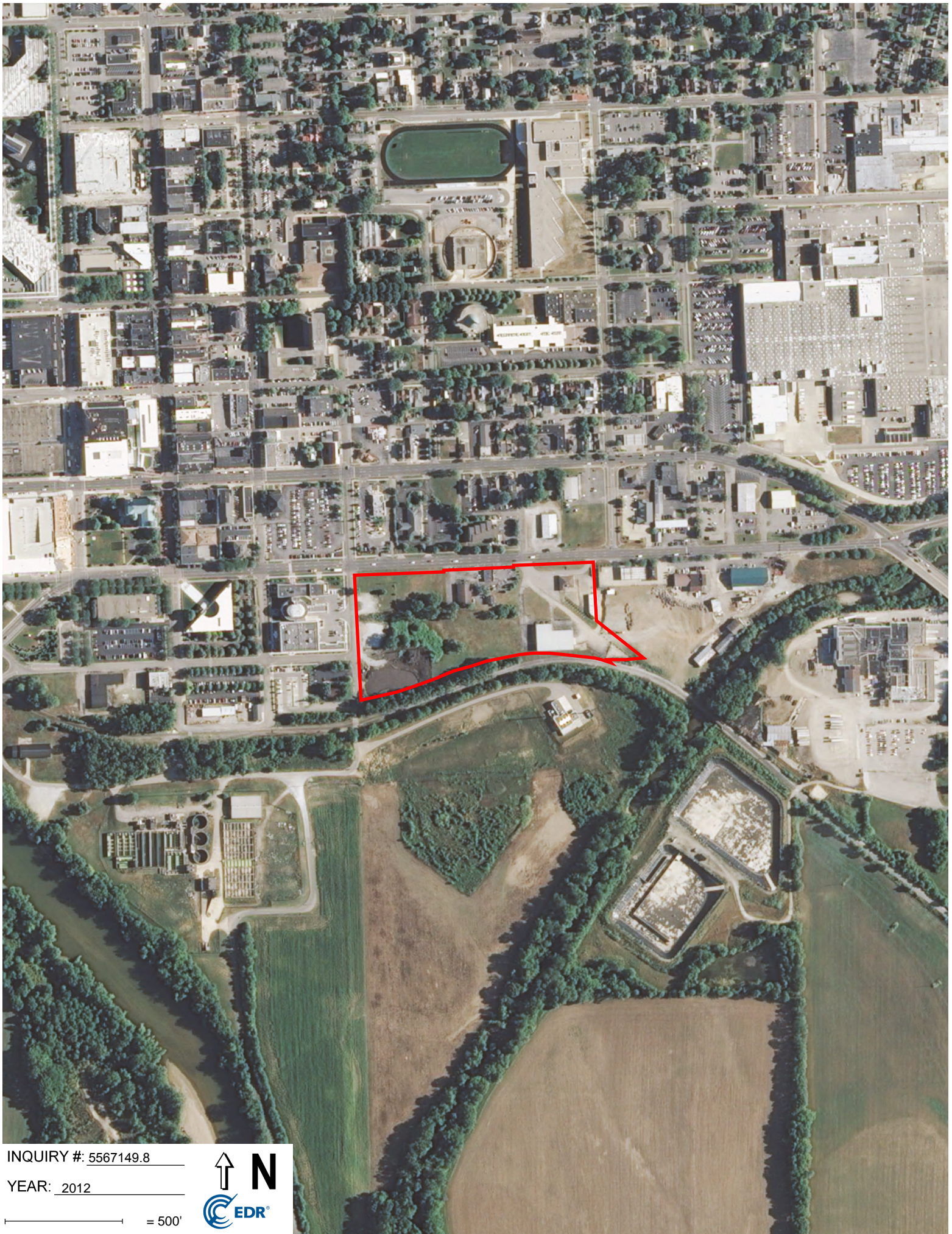
INQUIRY #: 5567149.8

YEAR: 2016

— = 500'







INQUIRY #: 5567149.8

YEAR: 2012

— = 500'







INQUIRY #: 5567149.8

YEAR: 2008

— = 500'







INQUIRY #: 5567149.8

YEAR: 2005

— = 500'







INQUIRY #: 5567149.8

YEAR: 1998

— = 500'





INQUIRY #: 5567149.8

YEAR: 1992

— = 500'







INQUIRY #: 5567149.8

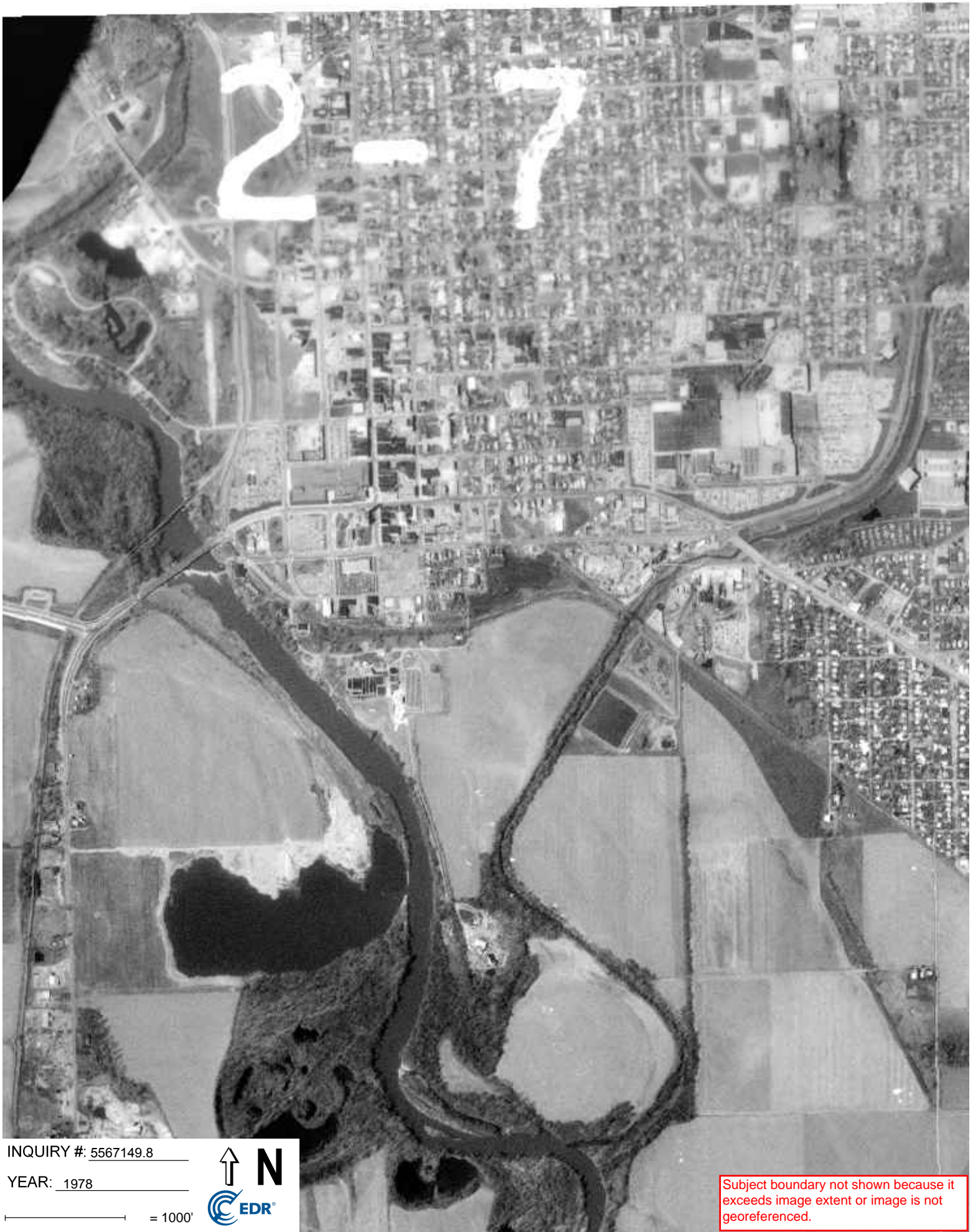
YEAR: 1987

1" = 1000'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.





INQUIRY #: 5567149.8

YEAR: 1978

— = 1000'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.





INQUIRY #: 5567149.8

YEAR: 1962

— = 500'







INQUIRY #: 5567149.8

YEAR: 1960

— = 500'







INQUIRY #: 5567149.8

YEAR: 1955

— = 500'








INQUIRY #: 5567149.8

YEAR: 1952

— = 1000'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



JT0460.710.0001

703, 711, 801, & Rear Lot of 2nd Street

Columbus, IN 47201

Inquiry Number: 5567149.4

February 20, 2019

# EDR Historical Topo Map Report

## with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

02/20/19

**Site Name:**

JT0460.710.0001  
703, 711, 801, & Rear Lot of 2r  
Columbus, IN 47201  
EDR Inquiry # 5567149.4

**Client Name:**

August Mack Environmental, Inc  
1302 N. Meridian St.  
Indianapolis, IN 46204  
Contact: Elyse Baron



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by August Mack Environmental, Inc were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	39.199751 39° 11' 59" North
<b>Project:</b>	JT0460.710.0001	<b>Longitude:</b>	-85.916329 -85° 54' 59" West
		<b>UTM Zone:</b>	Zone 16 North
		<b>UTM X Meters:</b>	593573.69
		<b>UTM Y Meters:</b>	4339502.87
		<b>Elevation:</b>	619.00' above sea level

**Maps Provided:**

2013  
1988  
1980  
1979  
1962  
1958  
1942

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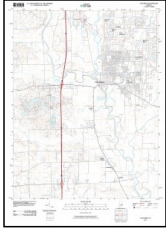
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## ***Topo Sheet Key***

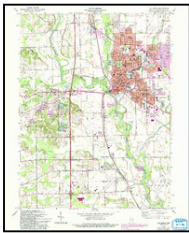
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **2013 Source Sheets**



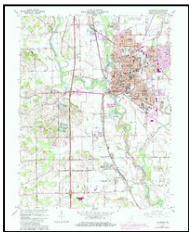
Columbus  
2013  
7.5-minute, 24000

### **1988 Source Sheets**



Columbus  
1988  
7.5-minute, 24000  
Aerial Photo Revised 1984

### **1980 Source Sheets**



Columbus  
1980  
7.5-minute, 24000  
Aerial Photo Revised 1978

### **1979 Source Sheets**

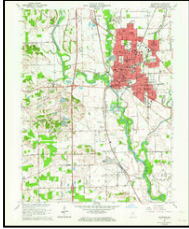


COLUMBUS  
1979  
15-minute, 50000

## ***Topo Sheet Key***

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1962 Source Sheets**



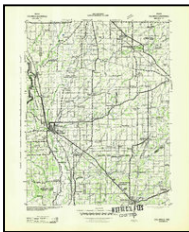
Columbus  
1962  
7.5-minute, 24000  
Aerial Photo Revised 1956

### **1958 Source Sheets**



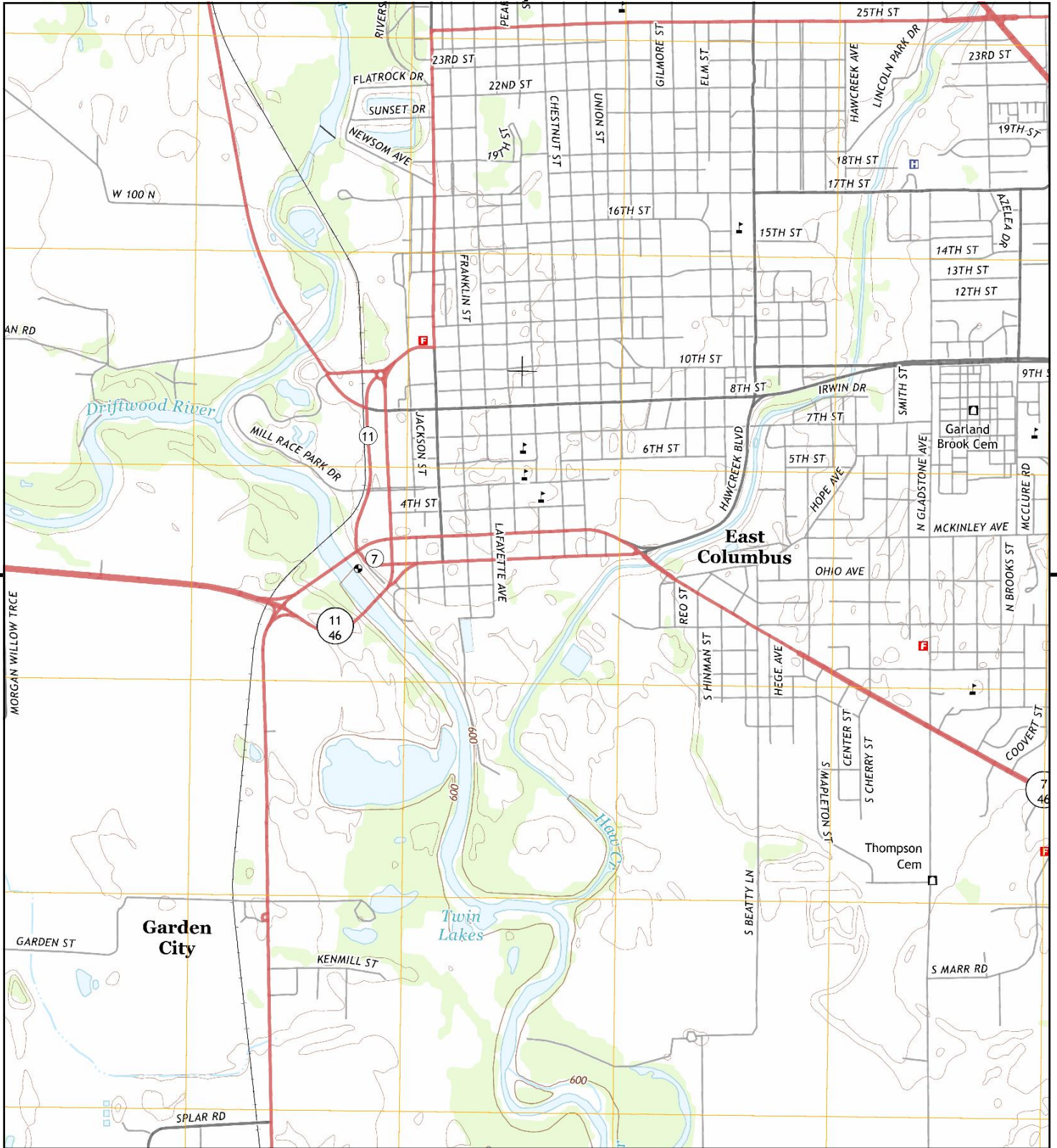
Columbus  
1958  
7.5-minute, 24000  
Aerial Photo Revised 1956

### **1942 Source Sheets**



Columbus  
1942  
30-minute, 125000  
Aerial Photo Revised 1941





This report includes information from the following map sheet(s).



TP, Columbus, 2013, 7.5-minute

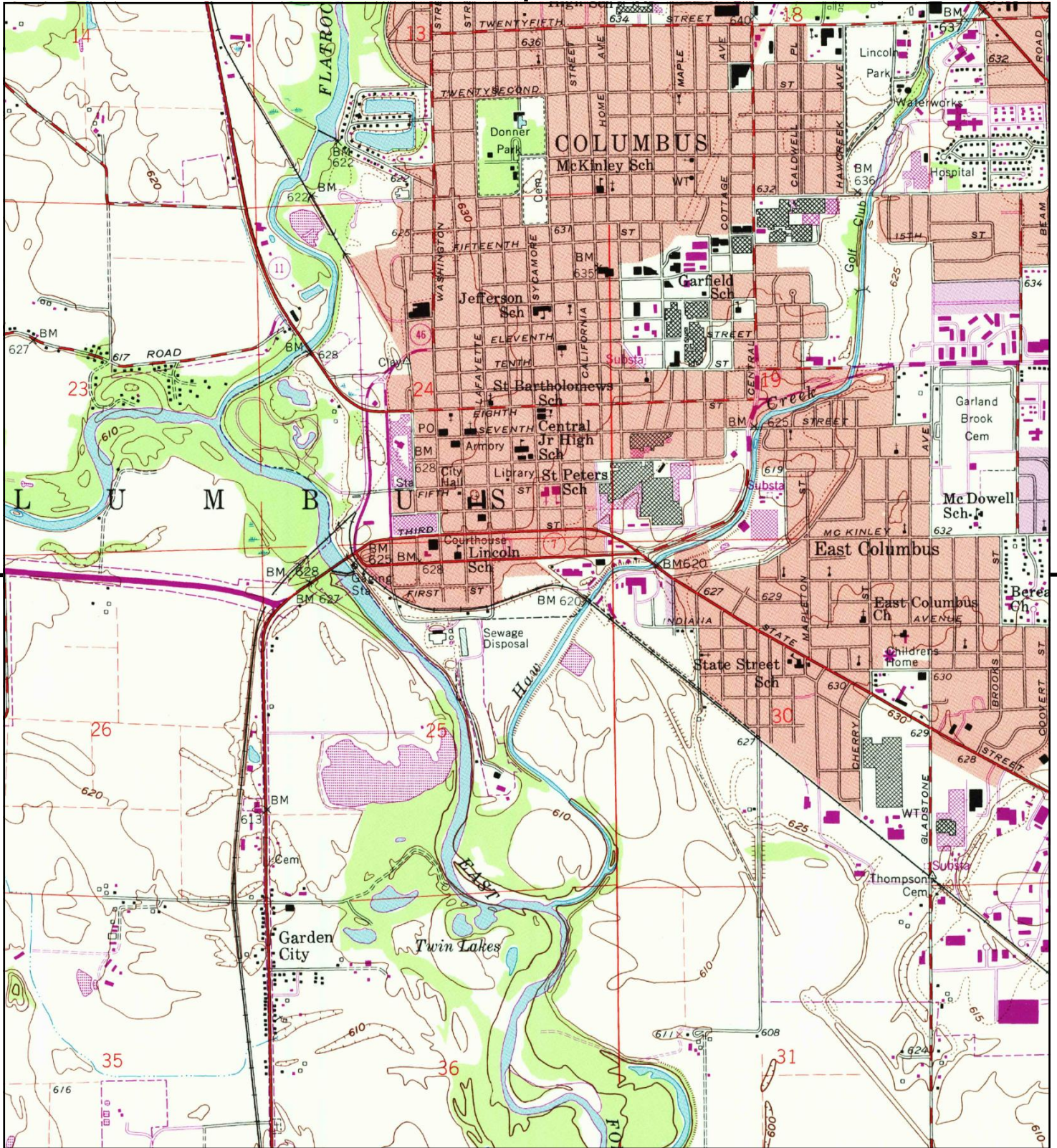
SITE NAME: JT0460.710.0001

ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

CLIENT: August Mack Environmental, Inc







This report includes information from the following map sheet(s).

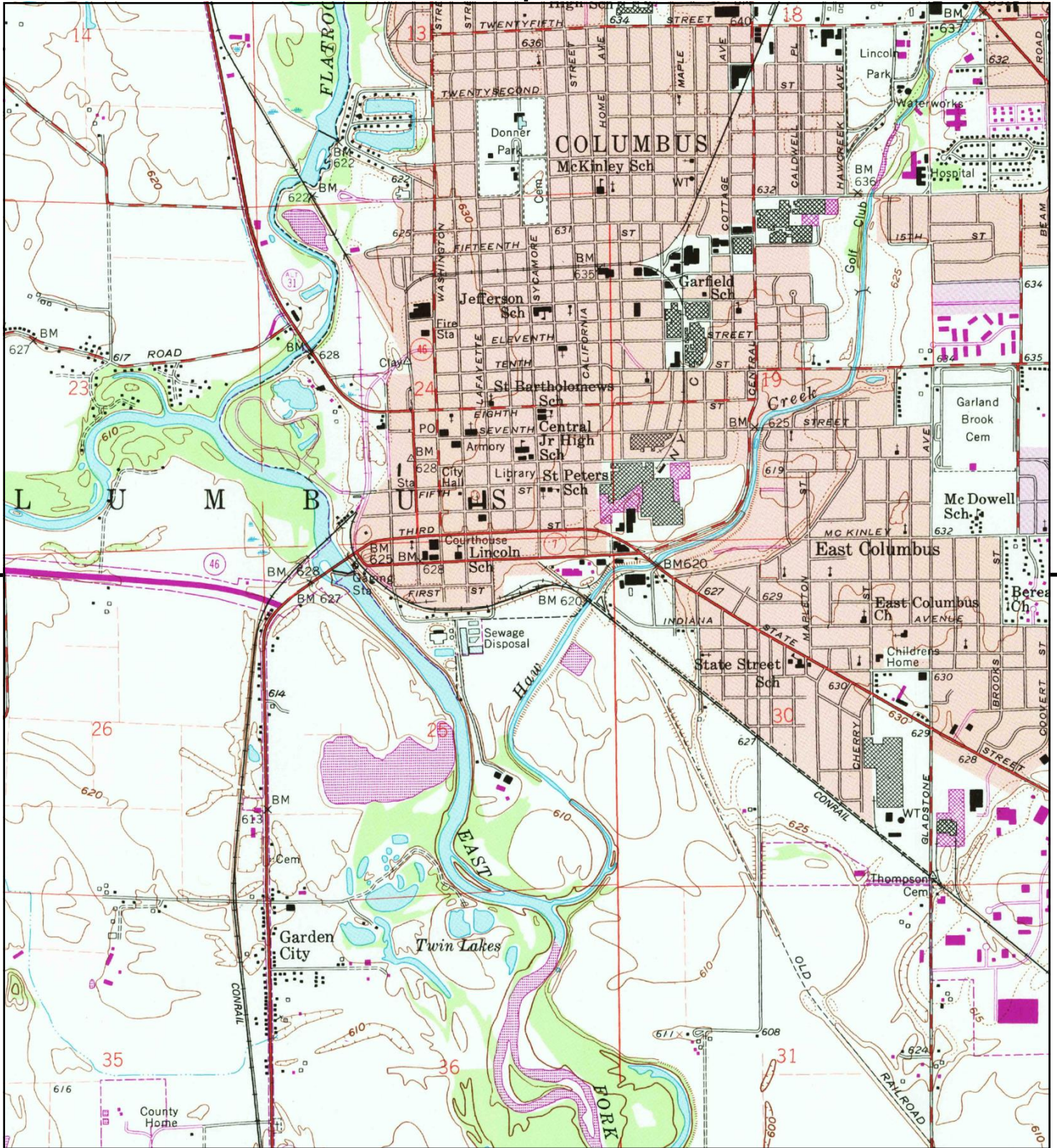


TP, Columbus, 1988, 7.5-minute

SITE NAME: JT0460.710.0001  
 ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
 Columbus, IN 47201  
 CLIENT: August Mack Environmental, Inc







This report includes information from the following map sheet(s).



TP, Columbus, 1980, 7.5-minute

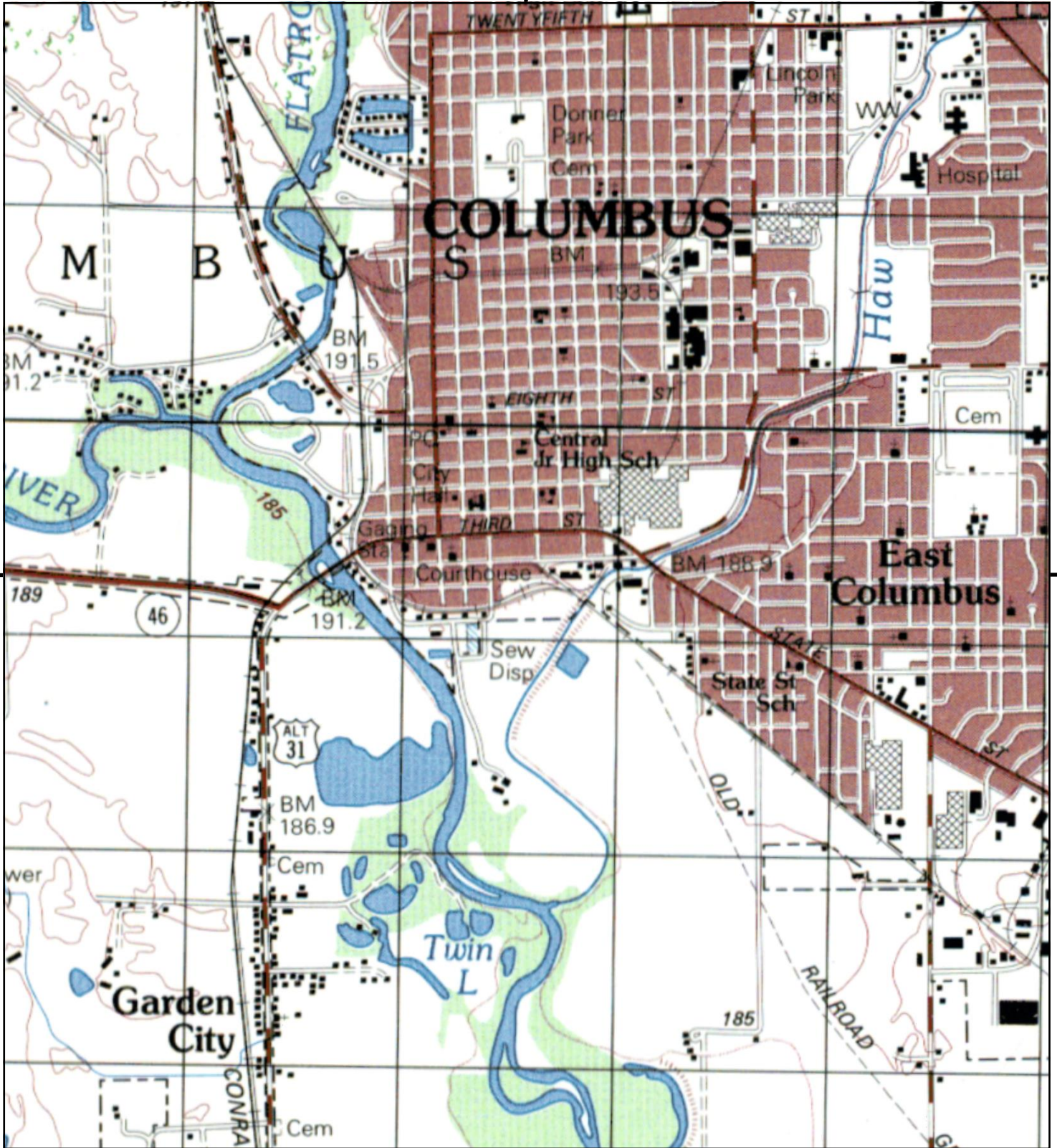
SITE NAME: JT0460.710.0001

ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

CLIENT: August Mack Environmental, Inc







This report includes information from the following map sheet(s).

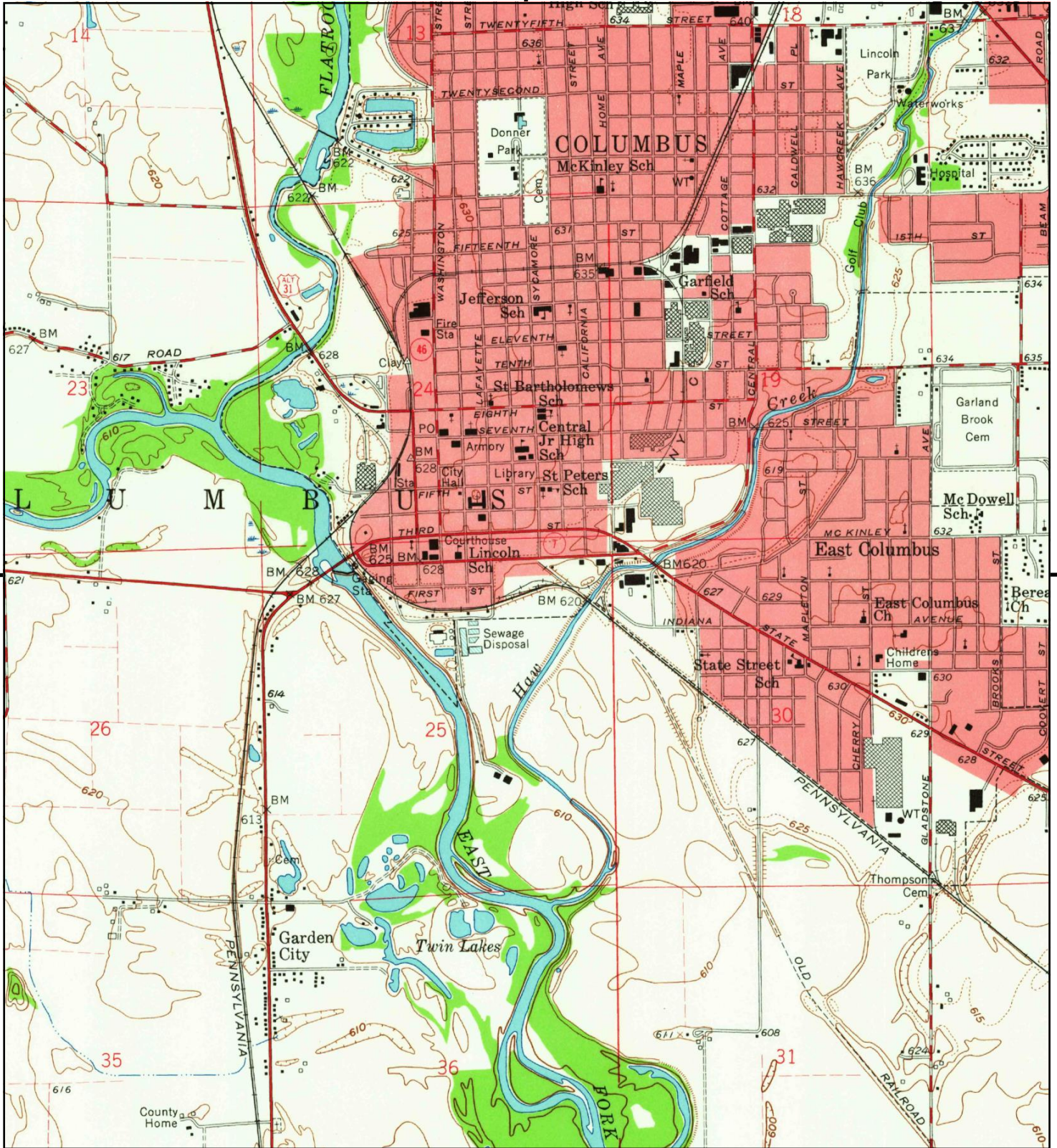


TP, COLUMBUS, 1979, 15-minute

SITE NAME: JT0460.710.0001  
 ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
 Columbus, IN 47201  
 CLIENT: August Mack Environmental, Inc







This report includes information from the following map sheet(s).



TP, Columbus, 1962, 7.5-minute

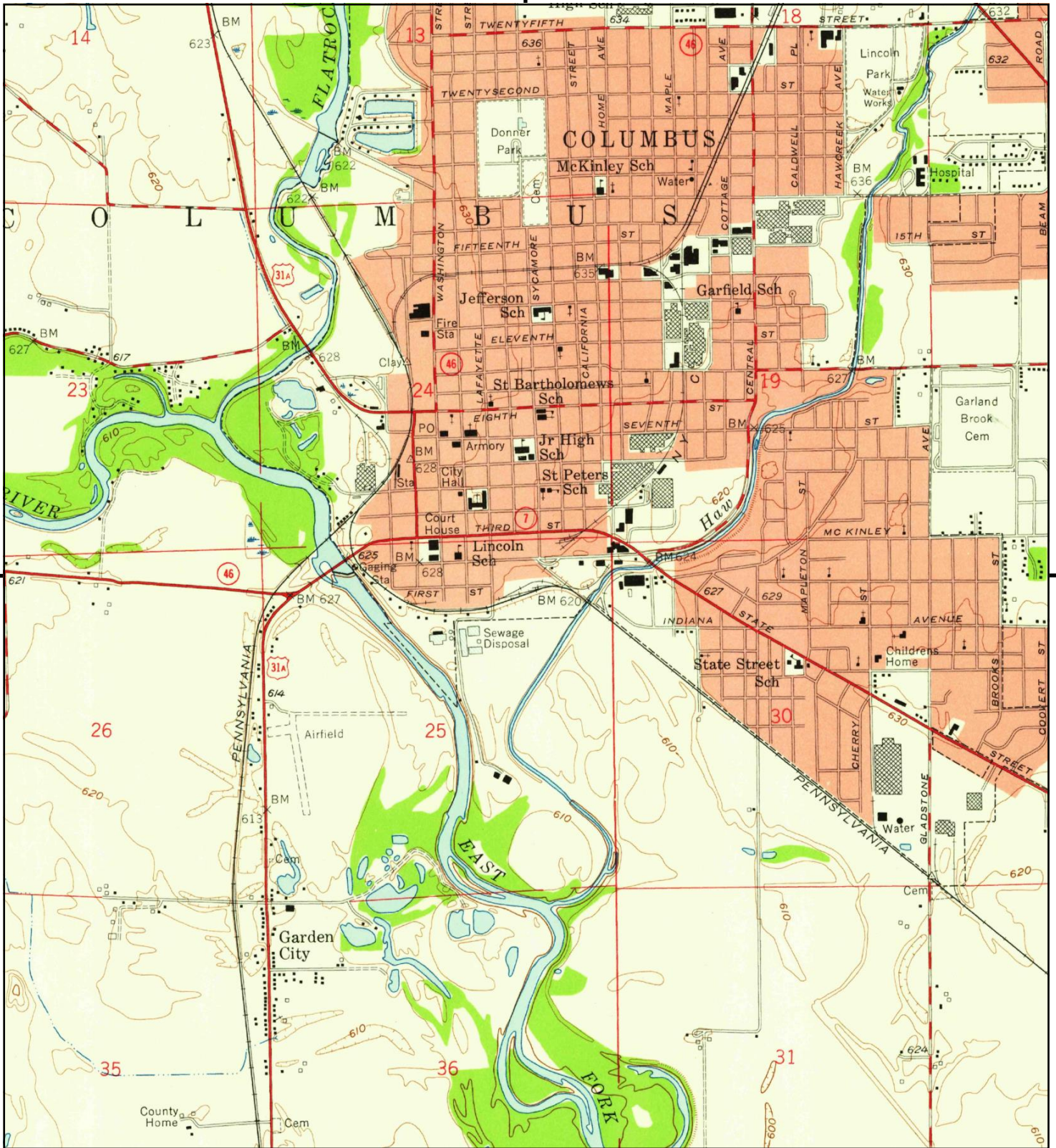
SITE NAME: JT0460.710.0001

ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

CLIENT: August Mack Environmental, Inc







This report includes information from the following map sheet(s).



TP, Columbus, 1958, 7.5-minute

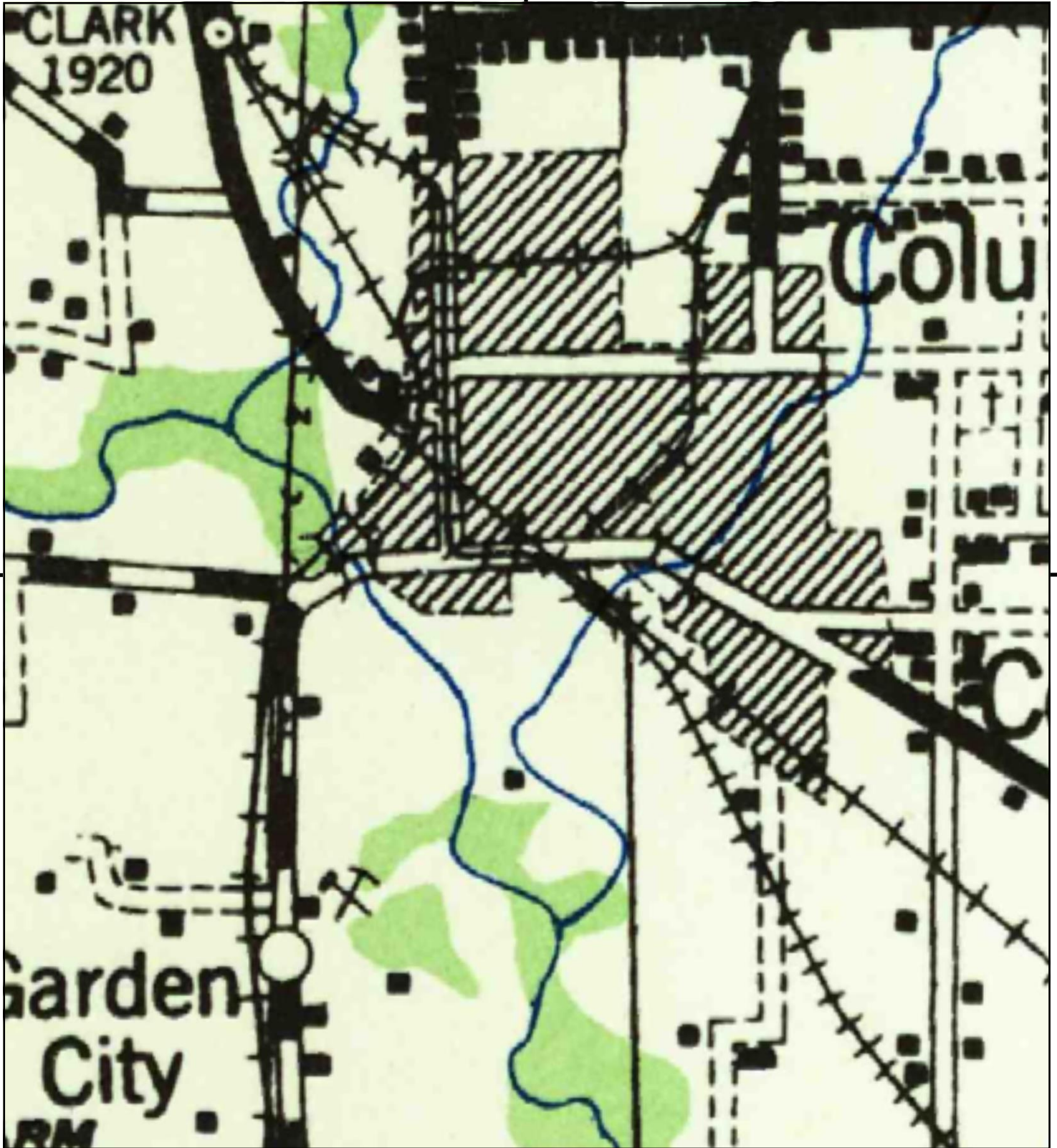
SITE NAME: JT0460.710.0001

ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

CLIENT: August Mack Environmental, Inc







This report includes information from the following map sheet(s).



TP, Columbus, 1942, 30-minute

SITE NAME: JT0460.710.0001

ADDRESS: 703, 711, 801, & Rear Lot of 2nd Street  
Columbus, IN 47201

CLIENT: August Mack Environmental, Inc



# **Appendix E - Photographic Documentation**

1



General view within warehouse portion of on-Site building

2



General view within warehouse portion of on-Site building

3



General view within warehouse portion of on-Site building

4



General view within warehouse portion of on-Site building



5



General view within warehouse portion of on-Site building

6



General view within warehouse portion of on-Site building

7



General view within warehouse portion of on-Site building

8



General view within warehouse portion of on-Site building



9



General view within office portion of on-Site building

10



General view within office portion of on-Site building

11



General view within office portion of on-Site building

12



General view within office portion of on-Site building

13



General view within office portion of on-Site building

14



General view within mezzanine portion of on-Site building

15



Western Site boundary, from southwest corner, facing north

16



View of on-Site groundwater monitoring wells



17



West adjoining

18



West-southwest adjoining

19



Southern Site boundary, from southwest corner, facing east

20



South adjoining



21



Southwest adjoining

22



View of water testing spigot on northwest portion of Site

23



Northern Site boundary, from northeast corner, facing west

24



General view of Site, from northeast corner, facing southwest

25



North adjoining in foreground

26



General view of on-Site building

27



Concrete rubble on eastern Site boundary

28



Northeast corner of Site



29



General view of on-Site building

30



Loading dock on east exterior portion of on-Site building

31



Southeast adjoining in foreground

**Appendix F -**  
**Qualifications and Resumes of**  
**Environmental Professionals**

### **Specialized Experience**

- Phase I Environmental Site Assessments (ESAs)
- Mold Remediation
- Asbestos Survey and Sampling
- Negative Exposure Assessments
- Indoor Air Quality Monitoring/Investigation
- Transaction Screen Assessment (TSA)
- Desktop Review
- Environmental Tenant Assessment (ETA)
- Monitoring Well Installation & Development
- Lead-Based Paint Risk Assessments
- Subsurface Investigations and Reports
- Groundwater Monitoring

### **Representative Project Experience**

#### **Industrial Hygiene**

- Performed post-remediation mold inspections and clearance sampling for residential and commercial buildings.
- Identified and collected samples for asbestos analysis. Inspections include identifying Asbestos Containing Material (ACM) and assessing the state of friability and damage prior to sample collection.
- Performed negative exposure assessment on workers applying an asphalt membrane roof. The process included supplying workers with personal air pumps which collected samples to be analyzed for asphalt fumes and naphtha.
- Supervised asbestos abatement project which included preparation of Health and Safety Plan (HASP), review of HASP and project kickoff meeting with abatement workers, periodic oversight of daily activities, performing a final visual inspection, and completing a final report of project activities.
- Performed Indoor Air Quality (IAQ) investigations of commercial buildings. Inspections typically include a thorough visual inspection and sampling for physical air parameters including mold, bacteria, airborne particulates, and/or chemical constituents.
- Conducted Housing and Urban Development (HUD) governed lead-based paint inspections and risk assessments for single family and multi-family structures. Assessments included identifying potential lead-based paint and lead-based paint hazards, performing lead paint testing, collecting dust and soil samples for laboratory analysis and report generation.



### **Site Assessment**

- Conducted ASTM Phase I Environmental Site Assessments (ESA) at multiple sites undergoing acquisition, divestiture or refinancing, including commercial and industrial buildings and undeveloped sites.
- Conducted Transaction Screen Assessments (TSA), Desktop Reviews, and Environmental Tenant Assessments (ETA) for commercial properties.

### **Subsurface Investigation**

- Designed and implemented Health and Safety Plans (HASPs) for multiple subsurface investigations.
- Conducted subsurface investigations at multiple sites. Activities included acting as on-site consultant, oversight of geophysical survey and utility locating activities, performing field classification and screening of soil borings, developing lithologic soil profiles, and collection of field samples for analysis.
- Performed groundwater sampling of existing monitoring well networks utilizing low-flow techniques.

### **Well Installation and Abandonment**

- Oversaw installation activities of two-inch diameter groundwater monitoring wells.
- Developed groundwater monitoring wells by purging approximately 10-well volumes.

### **Professional Experience**

August Mack Environmental, Inc.

Environmental Site Assessor, 2013 to Current

August Mack Environmental, Inc.

Field Scientist, 2009 to 2013

### **Education & Certifications**

Bachelor of Science, Indiana University, Environmental Science

40-Hour Hazardous Waste Site Operations (HAZWOPER) Training, OSHA

Asbestos Building Inspector, Indiana

Asbestos Inspector, Kentucky

Lead Risk Assessor, Indiana

Lead Risk Assessor, Ohio

# **Appendix G - Additional Documentation**

03-95-25-110-000.900-005

General Information

Parcel Number  
03-95-25-110-000.900-005

Local Parcel Number  
19952511900

Tax ID:

Routing Number  
095.0000010.0000

Property Class 640  
Exempt, Municipality

Year: 2018

Location Information

County  
Bartholomew

Township  
COLUMBUS TOWNSHIP

District 005 (Local 005 )  
COLUMBUS CITY-COLUMBUS TO

School Corp 0365  
BARTHOLOMEW CONSOLIDATE

Neighborhood 6000-005  
GOVERNMENT OWNED

Section/Plat  
25

Location Address (1)  
801 2ND ST  
COLUMBUS, IN 47201

Zoning

Subdivision

Lot  
1

Market Model  
Columbus CI

Characteristics

Topography Flood Hazard

Public Utilities ERA

Streets or Roads TIF

Neighborhood Life Cycle Stage  
Other

Printed Friday, June 01, 2018

Review Group 2014

CITY OF COLUMBUS REDEVEL

Ownership

CITY OF COLUMBUS REDEVELOPM  
C/O HEATHER POPE  
123 WASHINGTON ST  
COLUMBUS, IN 47201

Legal

Lot 1 - Bartholomew County R.E.M.C. Replat (M/37)



801 2ND ST

Transfer of Ownership

Date	Owner	Doc ID	Code	Book/Page	Adj Sale Price	V/I
04/19/2012	CITY OF COLUMBUS		QC	2012/4214	\$0	I
05/12/2010	Columbus Downtown, I		CW	2010/6320	\$732,500	V
01/01/1900	BARTH CO RURAL E		WD	/	\$0	I

640, Exempt, Municipality

Exempt

Valuation Records (Work In Progress values are not certified values and are subject to change)

2018	Assessment Year	2018	2017	2016	2015	2014
WIP	Reason For Change	AA	AA	AA	AA	AA
05/31/2018	As Of Date	05/31/2018	03/15/2017	05/10/2016	06/15/2015	07/25/2014
Indiana Cost Mod	Valuation Method	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod
1.0000	Equalization Factor	1.0000	1.0000	1.0000	1.0000	1.0000
	Notice Required	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
\$0	Land	\$0	\$0	\$0	\$0	\$0
\$0	Land Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Improvement	\$0	\$0	\$0	\$0	\$0
\$0	Imp Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Total	\$0	\$0	\$0	\$0	\$0
\$0	Total Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (3)	\$0	\$0	\$0	\$0	\$0

Land Data (Standard Depth: Res 120', CI 120')

Land Type	Pricing Method	Soil ID	Act Front.	Size	Factor	Rate	Adj. Rate	Ext. Value	Infl. %	Res Elig %	Market Factor	Value
-----------	----------------	---------	------------	------	--------	------	-----------	------------	---------	------------	---------------	-------

Land Computations

Calculated Acreage	0.00
Actual Frontage	0
Developer Discount	<input type="checkbox"/>
Parcel Acreage	3.34
81 Legal Drain NV	0.00
82 Public Roads NV	0.00
83 UT Towers NV	0.00
9 Homesite	0.00
91/92 Acres	0.00
Total Acres Farmland	3.34
Farmland Value	\$0
Measured Acreage	0.00
Avg Farmland Value/Acre	0.0
Value of Farmland	\$0
Classified Total	\$0
Farm / Classified Value	\$0
Homesite(s) Value	\$0
91/92 Value	\$0
Supp. Page Land Value	
CAP 1 Value	\$0
CAP 2 Value	\$0
CAP 3 Value	\$0
Total Value	\$0

GOVERNMENT OWNED/60 1/2

Notes

10/25/2013 dest: Exempt: deleted land, totaled values to 0.00 ALL BUILDINGS REMOVED FOR 14-15

11/20/2012 MEMO: RECORD STORAGE DOOR HAD NOT BEEN PRICED CORRECTED FOR 13/14

Review Group 2014

Data Source Aerial

Collector

Appraiser

Bob



General Information

Parcel Number  
03-95-25-110-001.900-005

Local Parcel Number  
199525111900

Tax ID:

Routing Number  
095.0000

Property Class 400  
Vacant Land

Year: 2018

Location Information

County  
Bartholomew

Township  
COLUMBUS TOWNSHIP

District 005 (Local 005 )  
COLUMBUS CITY-COLUMBUS TO

School Corp 0365  
BARTHOLOMEW CONSOLIDATE

Neighborhood 42040-005  
COM Strip FR 005

Section/Plat

Location Address (1)  
711 2ND ST  
COLUMBUS, IN 47201

Zoning

Subdivision

Lot  
1B

Market Model  
Columbus CI

Characteristics

Topography Flood Hazard

Public Utilities ERA

Streets or Roads TIF

Neighborhood Life Cycle Stage  
Static

Printed Friday, June 01, 2018

Review Group 2014

Ownership

CITY OF COLUMBUS REDEVELOPM  
C/O HEATHER POPE  
123 WASHINGTON ST  
COLUMBUS, IN 47201

Legal

Lot 1B - REB Subdivision Replat (P173A)



Transfer of Ownership

Date	Owner	Doc ID	Code	Book/Page	Adj Sale Price	V/I
02/17/2017	CITY OF COLUMBUS	2017-1541	WD	/	\$300,000	I
02/20/1997	Cseszko, Robert	0	WD	97/1747	\$0	I
01/01/1900	CSESZKO,REBECCA		WD	/	\$0	I

Notes

11/27/2017 dest: 18/19 ALL STRUCTURES  
REMOVED

Commercial

Valuation Records (Work In Progress values are not certified values and are subject to change)

2018	Assessment Year	2018	2017	2016	2015	2014
WIP	Reason For Change	AA	AA	AA	AA	AA
05/31/2018	As Of Date	05/31/2018	03/15/2017	05/10/2016	06/15/2015	07/25/2014
Indiana Cost Mod	Valuation Method	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod
1.0000	Equalization Factor	1.0000	1.0000	1.0000	1.0000	1.0000
	Notice Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
\$91,500	Land	\$91,500	\$145,200	\$145,200	\$145,200	\$145,200
\$0	Land Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$91,500	Land Non Res (3)	\$91,500	\$145,200	\$145,200	\$145,200	\$145,200
\$0	Improvement	\$0	\$49,600	\$49,600	\$49,600	\$75,600
\$0	Imp Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (3)	\$0	\$49,600	\$49,600	\$49,600	\$75,600
\$91,500	Total	\$91,500	\$194,800	\$194,800	\$194,800	\$220,800
\$0	Total Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$91,500	Total Non Res (3)	\$91,500	\$194,800	\$194,800	\$194,800	\$220,800

Land Data (Standard Depth: Res 100', CI 100')

Land Type	Pricing Method	Soil ID	Act Front.	Size	Factor	Rate	Adj. Rate	Ext. Value	Infl. %	Res Elig %	Market Factor	Value
13	S		0	30492.00	1.00	\$3	\$3	\$91,476	0%	0%	1.0000	\$91,480

Land Computations

Calculated Acreage	0.70
Actual Frontage	0
Developer Discount	<input type="checkbox"/>
Parcel Acreage	0.00
81 Legal Drain NV	0.00
82 Public Roads NV	0.00
83 UT Towers NV	0.00
9 Homesite	0.00
91/92 Acres	0.00
Total Acres Farmland	0.00
Farmland Value	\$0
Measured Acreage	0.00
Avg Farmland Value/Acre	0.0
Value of Farmland	\$0
Classified Total	\$0
Farm / Classified Value	\$0
Homesite(s) Value	\$0
91/92 Value	\$0
Supp. Page Land Value	
CAP 1 Value	\$0
CAP 2 Value	\$0
CAP 3 Value	\$91,500
Total Value	\$91,500



03-95-25-110-002.000-005

General Information

Parcel Number  
03-95-25-110-002.000-005

Local Parcel Number  
199525112000

Tax ID:

Routing Number  
095.0000

Property Class 640  
Exempt, Municipality

Year: 2018

Location Information

County  
Bartholomew

Township  
COLUMBUS TOWNSHIP

District 005 (Local 005 )  
COLUMBUS CITY-COLUMBUS TO

School Corp 0365  
BARTHOLOMEW CONSOLIDATE

Neighborhood 6000-005  
GOVERNMENT OWNED

Section/Plat  
25

Location Address (1)  
REAR LOT 2ND ST  
COLUMBUS, IN 47201

Zoning

Subdivision

Lot  
2B

Market Model  
N/A

Characteristics

Topography Flood Hazard

Public Utilities ERA

Streets or Roads TIF

Neighborhood Life Cycle Stage  
Other

Printed Friday, June 01, 2018

Review Group 2014

CITY OF COLUMBUS REDEVEL

Ownership

CITY OF COLUMBUS REDEVELOPM  
C/O HEATHER POPE  
123 WASHINGTON ST  
COLUMBUS, IN 47201

Legal

Part Lot 2B - Second Street 2nd Replat of Lot 2A (R/222A) Part Lot 2B - Seco  
nd Street 2nd Replat of Lot 2A (R/222A)



Valuation Records (Work In Progress values are not certified values and are subject to change)

2018	Assessment Year	2018	2017	2016	2015	2014
WIP	Reason For Change	AA	AA	AA	AA	AA
05/31/2018	As Of Date	05/31/2018	03/15/2017	05/10/2016	06/15/2015	07/25/2014
Indiana Cost Mod	Valuation Method	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod
1.0000	Equalization Factor	1.0000	1.0000	1.0000	1.0000	1.0000
	Notice Required	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
\$0	Land	\$0	\$0	\$0	\$0	\$0
\$0	Land Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Improvement	\$0	\$0	\$0	\$0	\$0
\$0	Imp Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Total	\$0	\$0	\$0	\$0	\$0
\$0	Total Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (3)	\$0	\$0	\$0	\$0	\$0

Land Data (Standard Depth: Res 120', CI 120')

Land Type	Pricing Method	Soil ID	Act Front.	Size	Factor	Rate	Adj. Rate	Ext. Value	Infl. %	Res Elig %	Market Factor	Value
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640, Exempt, Municipality

REAR LOT 2ND ST

Transfer of Ownership

Date	Owner	Doc ID	Code	Book/Page	Adj Sale Price	V/I
04/19/2012	CITY OF COLUMBUS		QC	2012/4213	\$0	I
01/09/2009	Columbus Downtown, I		WD	2009/268	\$0	I
01/10/2003	IRWIN-SWEENEY-MIL	EXEMPT	WD	2003/622X	\$0	I
12/10/2002	MILLER & COMPANY		WD	2002/20239	\$0	I
12/11/2001	SECOND SITE, LLC		WD	2001/17297	\$0	I
08/13/1987	MILLER & COMPANY	0	WD	/	\$0	I

Exempt

GOVERNMENT OWNED/60

1/2

Notes

Land Computations

Calculated Acreage	0.00
Actual Frontage	0
Developer Discount	<input type="checkbox"/>
Parcel Acreage	1.05
81 Legal Drain NV	0.00
82 Public Roads NV	0.00
83 UT Towers NV	0.00
9 Homesite	0.00
91/92 Acres	0.00
Total Acres Farmland	1.05
Farmland Value	\$0
Measured Acreage	0.00
Avg Farmland Value/Acre	0.0
Value of Farmland	\$0
Classified Total	\$0
Farm / Classified Value	\$0
Homesite(s) Value	\$0
91/92 Value	\$0
Supp. Page Land Value	
CAP 1 Value	\$0
CAP 2 Value	\$0
CAP 3 Value	\$0
Total Value	\$0





General Information

Parcel Number  
03-95-25-120-004.900-005

Local Parcel Number  
199525124900

Tax ID:

Routing Number  
095.0000040.0000

Property Class 620  
Exempt, County

Year: 2018

Location Information

County  
Bartholomew

Township  
COLUMBUS TOWNSHIP

District 005 (Local 005 )  
COLUMBUS CITY-COLUMBUS TO

School Corp 0365  
BARTHOLOMEW CONSOLIDATE

Neighborhood 6000-005  
GOVERNMENT OWNED

Section/Plat  
25 O/10

Location Address (1)  
703 2ND ST  
COLUMBUS, IN 47201

Zoning

Subdivision

Lot  
2B

Market Model  
N/A

Characteristics

Topography Flood Hazard

Public Utilities ERA

Streets or Roads TIF

Neighborhood Life Cycle Stage  
Other

Printed Friday, June 01, 2018  
Review Group 2014

Ownership

CITY OF COLUMBUS REDEVELOPM  
C/O HEATHER POPE  
123 WASHINGTON ST  
COLUMBUS, IN 47201

Legal

Pt Lot 2B - Second Street 2nd Replat of Lot 2A  
(R/222A)



Transfer of Ownership

Date	Owner	Doc ID	Code	Book/Page	Adj Sale Price	V/I
04/19/2012	CITY OF COLUMBUS		QC	2012/4213	\$0	I
01/09/2009	Columbus Downtown, I		WD	2009/268	\$0	I
01/10/2003	IRWIN-SWEENEY-MIL		WD	2003/622	\$0	I
12/10/2002	MILLER & COMPANY		WD	2002/21547	\$0	I
12/11/2001	SECOND SITE, LLC		WD	2001/17297	\$0	I
01/01/1900	MILLER & COMPANY		WD	/	\$0	I

Exempt

Valuation Records (Work In Progress values are not certified values and are subject to change)

2018	Assessment Year	2018	2017	2016	2015	2014
WIP	Reason For Change	AA	AA	AA	AA	AA
05/31/2018	As Of Date	05/31/2018	03/15/2017	05/10/2016	06/15/2015	07/25/2014
Indiana Cost Mod	Valuation Method	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod
1.0000	Equalization Factor	1.0000	1.0000	1.0000	1.0000	1.0000
	Notice Required	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
\$0	Land	\$0	\$0	\$0	\$0	\$0
\$0	Land Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Improvement	\$0	\$0	\$0	\$0	\$0
\$0	Imp Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Total	\$0	\$0	\$0	\$0	\$0
\$0	Total Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (3)	\$0	\$0	\$0	\$0	\$0

Land Data (Standard Depth: Res 120', CI 120')

Land Type	Pricing Method	Soil ID	Act Front.	Size	Factor	Rate	Adj. Rate	Ext. Value	Infl. %	Res Elig %	Market Factor	Value
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Notes

11/27/2017 NC: 18/19 ALL STRUCTURES  
REMOVED

Land Computations

Calculated Acreage	0.00
Actual Frontage	0
Developer Discount	<input type="checkbox"/>
Parcel Acreage	4.73
81 Legal Drain NV	0.00
82 Public Roads NV	0.00
83 UT Towers NV	0.00
9 Homesite	0.00
91/92 Acres	0.00
Total Acres Farmland	4.73
Farmland Value	\$0
Measured Acreage	0.00
Avg Farmland Value/Acre	0.0
Value of Farmland	\$0
Classified Total	\$0
Farm / Classified Value	\$0
Homesite(s) Value	\$0
91/92 Value	\$0
Supp. Page Land Value	
CAP 1 Value	\$0
CAP 2 Value	\$0
CAP 3 Value	\$0
Total Value	\$0



03-95-25-120-004.901-005

General Information

Parcel Number  
03-95-25-120-004.901-005

Local Parcel Number  
199525124901

Tax ID:

Routing Number

Property Class 640  
Exempt, Municipality

Year: 2018

Location Information

County  
Bartholomew

Township  
COLUMBUS TOWNSHIP

District 005 (Local 005 )  
COLUMBUS CITY-COLUMBUS TO

School Corp 0365  
BARTHOLOMEW CONSOLIDATE

Neighborhood 6000-005  
GOVERNMENT OWNED

Section/Plat  
25

Location Address (1)  
LAFAYETTE AVE  
COLUMBUS, IN 47201

Zoning

Subdivision

Lot  
3

Market Model  
N/A

Characteristics

Topography Flood Hazard

Public Utilities ERA

Streets or Roads TIF

Neighborhood Life Cycle Stage  
Other

Printed Friday, June 01, 2018  
Review Group 2014

CITY OF COLUMBUS REDEVEL

Ownership

CITY OF COLUMBUS REDEVELOPM  
C/O HEATHER POPE  
123 WASHINGTON ST  
COLUMBUS, IN 47201

Legal

Lot 3 - Second Street 2nd Replat of Lot 2A (R/222A)

LAFAYETTE AVE

640, Exempt, Municipality

Transfer of Ownership

Date	Owner	Doc ID	Code	Book/Page	Adj Sale Price	V/I
04/19/2012	CITY OF COLUMBUS		QC	2012/4213	\$0	I
01/01/1900	Columbus Downtown, I		WD	/	\$0	I

GOVERNMENT OWNED/60

1/2

Notes



Exempt

Valuation Records (Work In Progress values are not certified values and are subject to change)

2018	Assessment Year	2018	2017	2016	2015	2014
WIP	Reason For Change	AA	AA	AA	AA	AA
05/31/2018	As Of Date	05/31/2018	03/15/2017	05/10/2016	06/15/2015	07/25/2014
Indiana Cost Mod	Valuation Method	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod	Indiana Cost Mod
1.0000	Equalization Factor	1.0000	1.0000	1.0000	1.0000	1.0000
	Notice Required	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
\$0	Land	\$0	\$0	\$0	\$0	\$0
\$0	Land Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Land Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Improvement	\$0	\$0	\$0	\$0	\$0
\$0	Imp Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Imp Non Res (3)	\$0	\$0	\$0	\$0	\$0
\$0	Total	\$0	\$0	\$0	\$0	\$0
\$0	Total Res (1)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (2)	\$0	\$0	\$0	\$0	\$0
\$0	Total Non Res (3)	\$0	\$0	\$0	\$0	\$0

Land Data (Standard Depth: Res 120', CI 120')

Land Type	Pricing Method	Soil ID	Act Front.	Size	Factor	Rate	Adj. Rate	Ext. Value	Infl. %	Res Elig %	Market Factor	Value
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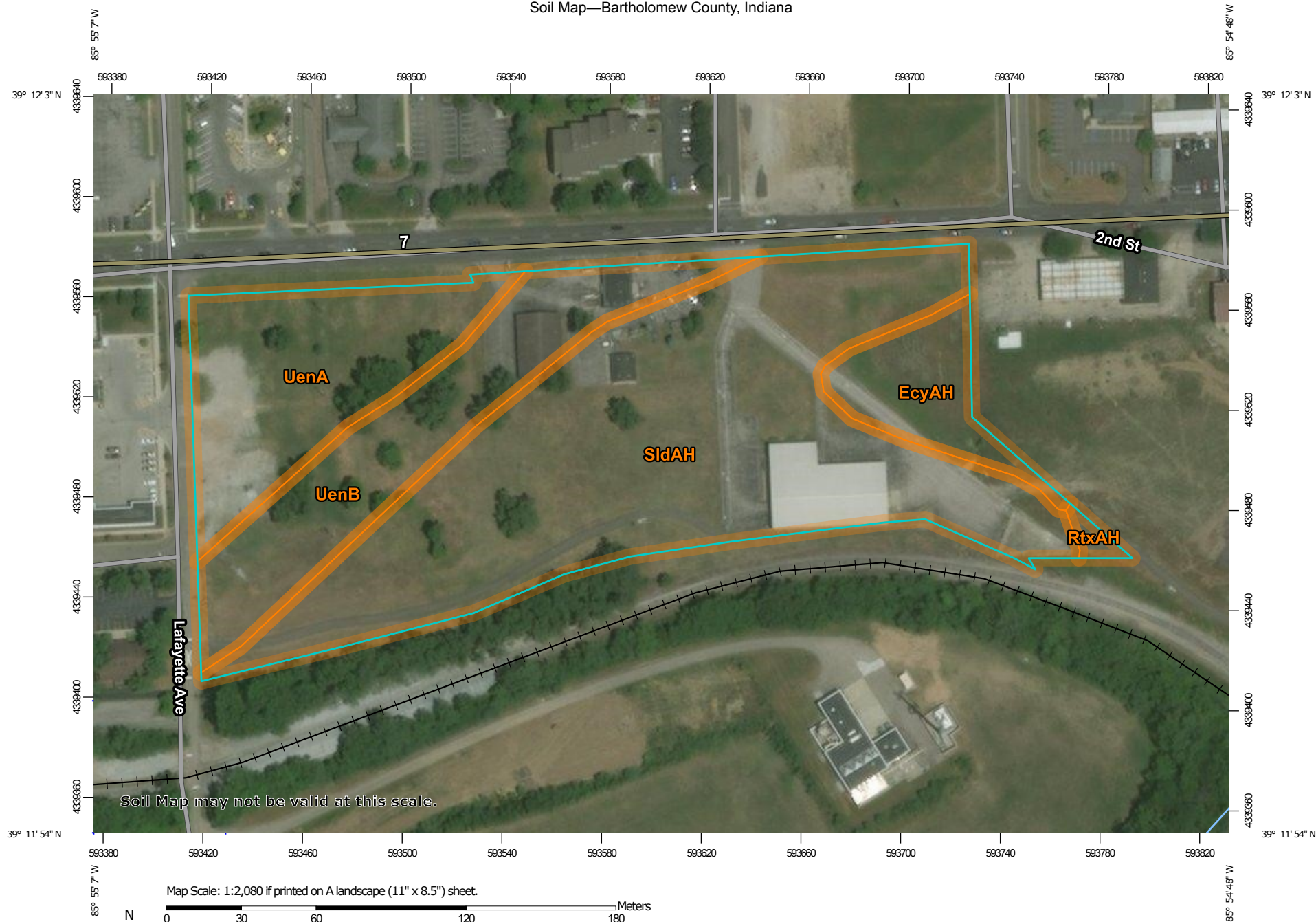
Land Computations

Calculated Acreage	0.00
Actual Frontage	0
Developer Discount	<input type="checkbox"/>
Parcel Acreage	1.24
81 Legal Drain NV	0.00
82 Public Roads NV	0.00
83 UT Towers NV	0.00
9 Homesite	0.00
91/92 Acres	0.00
Total Acres Farmland	1.24
Farmland Value	\$0
Measured Acreage	0.00
Avg Farmland Value/Acre	0.0
Value of Farmland	\$0
Classified Total	\$0
Farm / Classified Value	\$0
Homesite(s) Value	\$0
91/92 Value	\$0
Supp. Page Land Value	
CAP 1 Value	\$0
CAP 2 Value	\$0
CAP 3 Value	\$0
Total Value	\$0

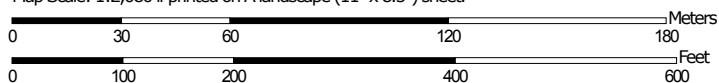
Data Source Aerial Collector Appraiser Bob



# Soil Map—Bartholomew County, Indiana



Map Scale: 1:2,080 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84




Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

2/28/2019  
Page 1 of 3

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bartholomew County, Indiana

Survey Area Data: Version 21, Sep 5, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 24, 2014—Mar 20, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EcyAH	Eel loam, 0 to 2 percent slopes, frequently flooded, brief duration	0.7	7.0%
RtxAH	Roszburg silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	0.1	0.6%
SldAH	Shoals silt loam, 0 to 2 percent slopes, frequently flooded, brief duration	5.7	56.0%
UenA	Urban land-Fox complex, 0 to 2 percent slopes	1.8	17.8%
UenB	Urban land-Fox complex, 2 to 6 percent slopes	1.9	18.7%
<b>Totals for Area of Interest</b>		<b>10.2</b>	<b>100.0%</b>

## Environmental Restrictive Covenant

THIS COVENANT is made this \_\_\_\_\_ day of \_\_\_\_\_, 2009, by the Columbus Athletic and Event Center, LLC (together with its successors and assignees, collectively "Owner") concerning the property (Lot 2B) located at 701 2<sup>nd</sup> Street in Columbus, Indiana.

WHEREAS: Owner owns certain real estate in the County of Bartholomew, Indiana, which is more particularly described in the attached Exhibit "A" and made a part hereof ("Real Estate"), which Real Estate was acquired by deed on \_\_\_\_\_ and recorded on \_\_\_\_\_ as Deed Record \_\_\_\_\_, in the Office of the Recorder of Bartholomew County, Indiana.

WHEREAS: A Comfort Letter was prepared and issued by the Indiana Department of Environmental Management ("the Department") pursuant to the Indiana Brownfields Program's recommendation at the request of the Columbus Redevelopment Commission to address the redevelopment potential of a brownfield site resulting from a release of hazardous substances and petroleum (collectively, "Constituents of Concern") relating to the future Columbus Indoor Sports Complex ("Sports Complex"), BFD #4080515.

WHEREAS: The Comfort Letter, as approved by the Department, provides that Constituents of Concern will remain on or beneath the surface of the Real Estate and provides for land use restrictions that must be maintained to ensure the protection of public health, safety, or welfare, and the environment.

WHEREAS: In 1999, soil on the Real Estate was analyzed for volatile organic compounds ("VOCs"), semi-volatile organic compounds ("SVOCs") and total petroleum hydrocarbons ("TPH"). Groundwater samples were analyzed for VOCs. In 2002, additional soil and groundwater samples were collected and analyzed for TPH gasoline range organics ("GRO") and diesel range organics ("DRO"), VOCs, SVOCs, and the Resource Conservation and Recovery Act ("RCRA") Appendix 9 metals. In 2007/2008, a supplemental investigation was conducted including the installation of additional monitoring wells and soil borings. Soil and groundwater samples were analyzed for VOCs, SVOCs, TPH-DRO, TPH-GRO, TPH-extended range organics ("ERO"), and metals.

WHEREAS: Collectively, investigations on the Real Estate revealed that levels of naphthalene, 2-methylnaphthalene, ideno(1,2,3-cd)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, pentachlorophenol, arsenic, and TPH-GRO in soil and TPH-GRO, arsenic, chromium, lead, selenium, dibenzofuran, naphthalene, phenanthrene, and 2-methylnaphthalene in groundwater were above residential default closure levels ("RDCLs") established by the Department in the January 2006/July 2009 update, Risk Integrated System of Closure ("RISC") Technical Resource Guidance Document. Furthermore, naphthalene, ideno(1,2,3-cd)pyrene, benzo(b)fluoranthene, benzo(a)pyrene, pentachlorophenol, and arsenic in soil and arsenic and lead in the groundwater were also above industrial default closure levels ("IDCLs") established in RISC, although below the RISC Industrial Direct Contact or Construction Worker default closure levels that are applicable at the Real Estate based on the depth at which the detections



exceeding IDCLs were located and the proposed future use of the property. A list of the Contaminants of Concern detected on the Real Estate that exceeded RDCLs and/or IDCLs and the concentration levels/detected parameters is set forth in Tables, 1, 2 and 3, and 4 attached hereto. Site maps, attached hereto as Exhibit B, depict the sampling locations on the Real Estate from which samples exceeded RISC default closure levels. The documents related to Brownfield Site #4080515 are incorporated herein by reference and may be examined by searching the Department's Virtual File Cabinet on the Web at <http://www.in.gov/idem/4101.htm>, as well as the Department's File Room.

WHEREAS: The Department has not approved closure of the Real Estate under RISC. However, the land use restrictions contained in this Covenant will ensure that the planned commercial/industrial use of the Real Estate will be protective of human health and the environment.

NOW THEREFORE, Owner, hereby, in consideration for the promises contained herein and other good and valuable consideration imposes restrictions on the Real Estate and covenants and agrees that:

#### I. GENERAL PROVISIONS

1. Property Conveyance- Continuance of Provisions. Any conveyance of title, easement, or other interest in the Real Estate shall be subject to compliance with restrictions described in paragraph 7, below.
2. Restrictions to Run with the Land. The restrictions and other requirements described in this Covenant shall run with the land and be binding upon, and inure to the benefit of the Owner of the Real Estate and the Owner's successors, assignees, heirs and lessees or their authorized agents, employees, contractors, representatives, agents, lessees, licensees, invitees, guests, or persons acting under their direction or control and shall continue as a servitude running in perpetuity with the Real Estate. No transfer, mortgage, lease, license, easement, or other conveyance of any interest in all or any part of the Real Estate by any person shall limit the restrictions set forth herein. This Covenant is imposed upon the entire Real Estate unless expressly stated as applicable only to a specific portion thereof.
3. Binding upon Future Owners. By taking title to the Real Estate, any subsequent owner agrees to comply with these restrictions and the terms of this Covenant.
4. Access for Department. The Owner shall grant to the Department and its designated representatives the right to enter upon the Real Estate at reasonable times for the purpose of determining whether the land use restrictions described in paragraph 7 are being maintained (and operated as applicable) in a manner that ensures the protection of public health, safety, or welfare and the environment; this includes the right to take samples, monitor compliance with the corrective action plan, and inspect records.

5. Written Notice of the Presence of Hazardous Substances. Owner agrees to include in any instrument conveying any interest in any portion of the Real Estate, including but not limited to deeds, leases and subleases (excluding mortgages, liens, similar financing interests, and other non-possessory encumbrances) the following notice provision:

**NOTICE: THE INTEREST CONVEYED HEREBY IS SUBJECT TO AN ENVIRONMENTAL RESTRICTIVE COVENANT, DATED \_\_\_\_\_ 200\_\_\_\_, RECORDED IN THE OFFICE OF THE RECORDER OF BARTHOLOWMEW COUNTY ON \_\_\_\_\_, 200\_\_\_\_, INSTRUMENT NUMBER (or other identifying reference) \_\_\_\_\_ IN FAVOR OF AND ENFORCEABLE BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.**

6. Notice to Department of the Conveyance of Property. Owner agrees to provide notice to the Department no later than thirty (30) days after any conveyance of any ownership interest in the Real Estate (excluding mortgages, liens, similar financing interests, and other non-possessory encumbrances). Owner must provide Department with a certified copy of the instrument conveying any interest in any portion of the Real Estate and, if it has been recorded, its recording reference. Such notice shall also include the name and business address of the transferee.

## **II. RESTRICTIONS AND OBLIGATIONS**

7. The Owner shall:
- a) Not use the Real Estate for residential purposes, including, but not limited to, daily care facilities (e.g., daycare centers, schools and senior citizen facilities).
  - b) Not use the Real Estate for agricultural purposes.
  - c) Neither engage in nor allow the installation or use of water wells on the Real Estate. There shall be no consumptive, extractive or other use of the groundwater underlying the Real Estate that could cause exposure of humans or animals to the groundwater or disrupt the movement of groundwater underlying the Real Estate, other than for site investigation and/or remediation purposes, without prior Department approval.
  - d) Neither engage in nor allow the excavation of soil on the Real Estate without first submitting a work plan for approval by the Department at least sixty (60) days prior to beginning work. Any removal, excavation or disturbance of soil on the Real Estate must be conducted in accordance with all applicable requirements of IOSHA/OSHA and any soil that is removed, excavated or disturbed from the Real

Estate must be managed and disposed of in accordance with all applicable federal and state laws and regulations.

- e) Notify the Department if there is a change in the land use and/or any zoning changes that affect the commercial/industrial use of the Real Estate.

### III. ENFORCEMENT

- 8. Enforcement. Pursuant to IND. CODE § 13-14-2-6(5), the Department may proceed in court, by appropriate action to enforce this Covenant. Owner agrees that the restrictions are enforceable, and agrees not to challenge the appropriate court's jurisdiction.

### IV. TERM, MODIFICATION AND TERMINATION

- 9. Term. The restrictions shall apply until the Department determines that the constituents of concern no longer present an unacceptable risk to the public health, safety, or welfare, or to the environment.
- 10. Modification and Termination. This Covenant shall not be amended, modified, or terminated except by written instrument executed between the Department and the owner of the Real Estate at the time of the proposed amendment, modification, or termination. Within five (5) days of executing an amendment, modification, or termination of the Covenant, such amendment, modification, or termination shall be recorded with the Office of the Recorder of Bartholomew County and within five (5) days after recording, a true copy of the recorded amendment, modification, or termination shall be presented to the Department.

### V. MISCELLANEOUS

- 11. Waiver. No failure on the part of the Department at any time to require performance by any person of any term of this Covenant shall be taken or held to be a waiver of such term or in any way affect the Department's right to enforce such term, and no waiver on the part of the Department of any term hereof shall be taken or held to be a waiver of any other term hereof or the breach thereof.
- 12. Conflict of and Compliance with Laws. If any provision of this Covenant is also the subject of any law or regulation established by any federal, state, or local government, the strictest standard or requirement shall apply. Compliance with this Covenant does not relieve the Owner from complying with any other applicable laws.
- 13. Change in Law or Regulation. In the event that the Risk Integrated System of Closure ("RISC") is adopted by rule in Indiana, or in the event of any other change in applicable law or regulations, this Covenant shall be interpreted so as to ensure the continuing

validity and enforceability of the restrictions listed in paragraph 7, above. In no event shall this Covenant be rendered unenforceable if Indiana's laws, regulations, RISC guidelines, or policies for environmental restrictive covenants or institutional or engineering controls change as to form or content. All statutory references include any successor provisions.

14. Notices. Any notice, demand, request, consent, approval or communication that either party desires or is required to give to the other pursuant to this Covenant shall be in writing and shall either be served personally or sent by first class mail, postage prepaid, addressed as follows:

To Owner:

Federico J. d'Escoto  
Columbus Athletic and Event Center, LLC  
One East Erie Street, Suite 520  
Chicago, Illinois 60611

To Department:

Indiana Brownfields Program  
IGCN-Suite 1275  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
ATTN: Lynette Schrowe

Any party may change its address or the individual to whose attention a notice is to be sent by giving written notice in compliance with this paragraph.

15. Severability. If any portion of this Covenant or other term set forth herein is determined by a court of competent jurisdiction to be invalid for any reason, the surviving portions of this Covenant shall remain in full force and effect as if such portion found invalid had not been included herein.
16. Liability. An Owner's rights and obligations under this instrument terminate upon transfer of the Owner's interest in the Real Estate, except that liability for acts or omissions occurring prior to transfer shall survive transfer.
17. Authority to Execute and Record. The undersigned persons executing this Covenant on behalf of the Owner represent and certify that they are duly authorized and have been fully empowered to execute, record, and deliver this Covenant.

Owner hereby attests to the accuracy of the statements in this document and all attachments.

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law.

\_\_\_\_\_  
(Print name of Declarant)

IN WITNESS WHEREOF, the said Owner of the Real Estate described above has caused this Environmental Restrictive Covenant to be executed on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Owner

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

Before me, the undersigned, a Notary Public in and for said County and State, personally appeared \_\_\_\_\_, the \_\_\_\_\_ of the Owner, \_\_\_\_\_, who acknowledged the execution of the foregoing instrument for and on behalf of said entity.

Witness my hand and Notarial Seal this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_, Notary Public

Residing in \_\_\_\_\_ County, \_\_\_\_\_

My Commission Expires:

This instrument prepared by:

**EXHIBIT A**

**Legal Description of the Real Estate**

## WARRANTY DEED

THIS INDENTURE WITNESSETH, that COLUMBUS DOWNTOWN, INC., a Non-Profit Domestic Corporation, of Bartholomew County, as tenant in common, ("Grantor"), of Bartholomew County, in the State of Indiana, CONVEYS and WARRANTS to COLUMBUS ATHLETIC AND EVENT CENTER, LLC, ("Grantee"), of Bartholomew County, in the State of Indiana, for no valuable consideration, the following described real estate in Bartholomew County, in the State of Indiana, to-wit:

"Second Street Replat, A Replat of Lot 2A", Lot 2B.

### SUBJECT TO:

Conditions, Restrictions, Covenants and Easements recorded with reference to the plat of said addition.

PROPERTY ADDRESS: "Second Street Replat, A Replat of Lot 2A", Lot 2B

SEND TAX BILLS TO: "Second Street Replat, A Replat of Lot 2A", Lot 2B

IN WITNESS WHEREOF, Grantor has executed this deed this \_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_  
Columbus Downtown, Inc. Board Member

STATE OF INDIANA

COUNTY OF BARTHOLOMEW

Before me, a Notary Public in and for said County and State, personally appeared Columbus Downtown, Inc. Board Member, who acknowledged the execution of the foregoing Warranty Deed, and who, being first duly sworn stated that any representations therein contained are true.

\_\_\_\_\_  
Notary Public  
A resident of \_\_\_\_\_ County, IN

My Commission Expires: \_\_\_\_\_

I affirm, under the penalties of perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law.

This instrument prepared by:

G. Terrence Coriden  
Coriden Law Office, LLC  
415 Washington Street  
Columbus, IN 47201

## CONCLUSIONS

IN ACCORDANCE WITH THE FEDERAL PURCHASING STANDARDS AS SET FORTH IN FEDERAL ACQUISITION REGULATION (FAR) PART 101-11.7 (TITLE 48), THE FOLLOWING CONDITIONS AND CLAUSES ARE SUBMITTED TO THE AGENCY FOR REVIEW AND APPROVAL. THE AGENCY'S REVIEW OF THE PROPOSAL WILL BE LIMITED TO THE REVIEW OF THE PROPOSAL FOR THE PURPOSES OF THE AGENCY'S REVIEW OF THE PROPOSAL.

- ALL REVENUES AND EXPENSES SHOWN ON THE CHARTS ARE FIELD MEASUREMENTS UNLESS OTHERWISE NOTED. READING SYSTEM IS "LOCAL".

1) A PLAT TITLED "229 SUBDIVISION REFUGEE OF LOT 1" AS RECORDED IN PLAT BOOK "P", PAGE 73A, IN THE BUREAU OF COUNTY RECORDS OFFICE.

### Properties of Insects:

THERE IS A SHED TWO ENCLOSED UP TO 7 FEET ON TO SUBJECT LAND ALONG THE SOUTH LINE OF LOT 18 "NEB SUBDIVISION".

100,000,000 PER ANNUM PLAY CONDITIONS.

ALL INFORMATION SET OR FILED THE SURVEY FOR THE 1970 CENSUS

AS A RESULT OF THE ABOVE OBSERVATIONS, IT IS MY OPINION THAT THE DISCREPANCIES IN THE LOCATIONS OF LINES AND CORNERS ESTABLISHED ON THIS SURVEY ARE AS FOLLOWS:

A SEARCH FOR EVIDENCE OF RECORD IS NOT TO BE MADE ON THIS SUBJECT. IMPROVING THESE ARE NOT LOCATED BY THIS SUBJECT. MATTERS OF JOINT COMPLAINT IS NOT DEPOSED ON SUBMITTED BY THIS SUBJECT.

[illegible]

COLLEGE DOWNTOWN INC.

**Abstract**

YOU MUST ANSWER BY \_\_\_\_\_ 20

**QUESTIONS**

**STANDARD NO.**

CITY OF BIRMINGHAM, BIRMINGHAM, ALABAMA



**SECOND STREET REPLAY -**  
**LOT 14**  
**BARBERSHOP COUNTRY**  
**EXCELLENCE**

price \$19,900

call 707/438-8800

lot 14

call 707/438-8800

**Independent**  
**Land**  
**Surveying**

805 DOWNEY AVE.  
 SUITE 100  
 OAKLAND, CA 94612  
 (415) 764-1100



ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 11-14-01 BY 60322 UCBAW

(1900) (4/4) (2) GENUS 113067



CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	DELTA	CHORD	CHORD BEG.
C1	134.49	975.48	167.76	15°30'40"	214.85	87+72.31+V

**INDEPENDENT LAND SURVEYING**  
NO. 1001 10TH ST. S.W. ALBUQUERQUE, N.M. 87102  
(505) 263-1111

**SECOND STREET RAPIDS -**  
100' W. OF 1000TH  
N. 1000TH ST. ALBUQUERQUE, N.M.

DATE	BY	NO.	PRICE
12/10/00	WAL	2	\$10.00
12/10/00	WAL	1	\$10.00
12/10/00	WAL	1	\$10.00
12/10/00	WAL	1	\$10.00

[illegible]

Job #07106

159

1110095-57 SOURCE: N. JAHNKE

## **EXHIBIT B**

### **Figure 1**

**Sample Locations at which Concentrations of COCs in Soil Exceeded  
RISC Residential and/or Industrial Closure Levels  
(Haley & Aldrich)**

### **Figure 2**

**Sample Locations at which Concentrations of COCs in Groundwater Exceeded  
RISC Residential and/or Industrial Closure Levels  
(Haley & Aldrich)**

***DISCLAIMER: Information on this map is being provided to depict environmental conditions on the Real Estate that are the subject of the land use restrictions contained in the Covenant to which this map is attached and incorporated. The land use restrictions contained in the Covenant were deemed appropriate by the Department based on information provided to the Department by the Owner or another party investigating and/or remediating the environmental conditions on the Real Estate. This map cannot be relied upon as a depiction of all current environmental conditions on the Real Estate, nor can it be relied upon in the future as depicting environmental conditions on the Real Estate.***

**LEGEND:**

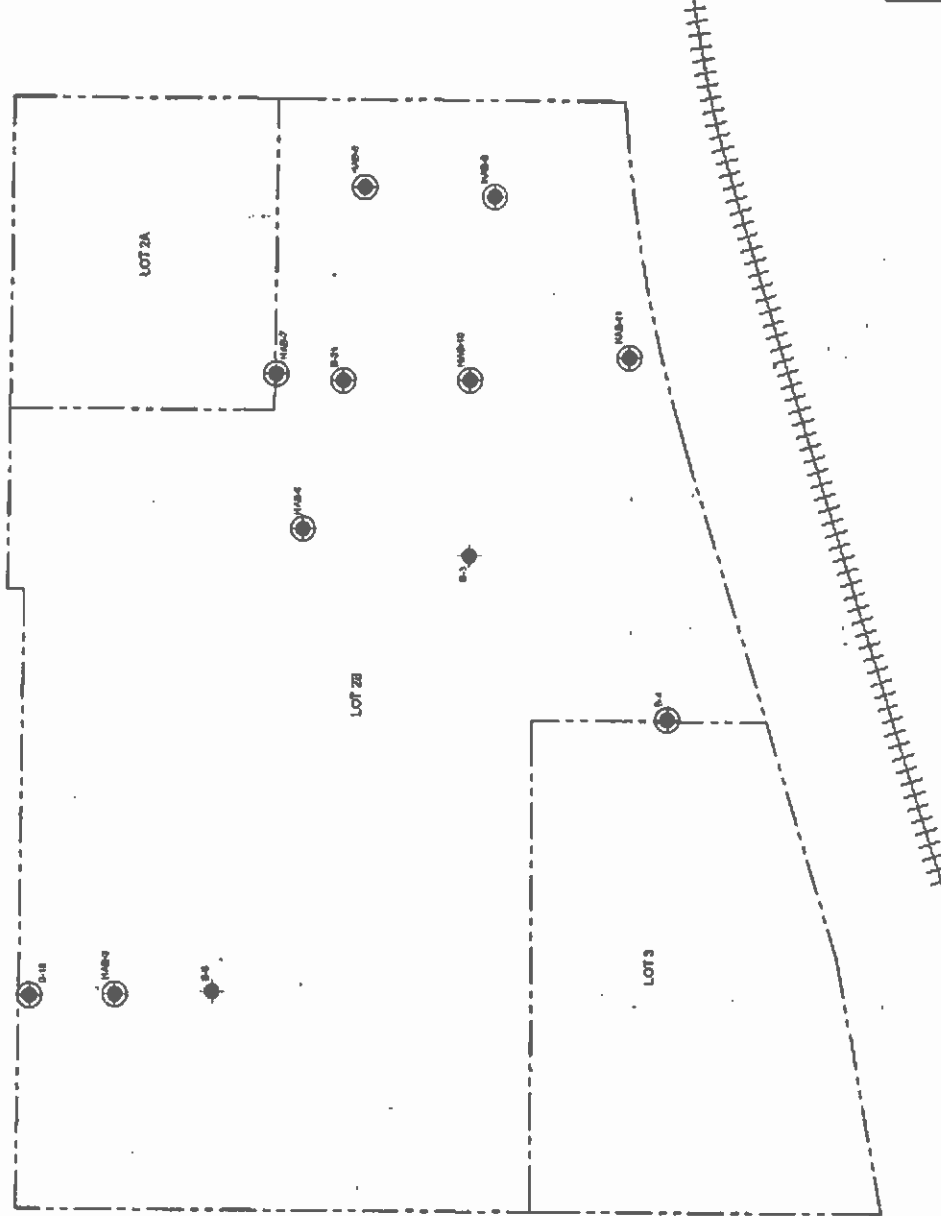
--- PROPERTY LINE

++++ RAILROAD

● BORING LOCATION EXCEEDING RESIDENTIAL  
DEFAULT CLOSURE LEVELS (MAY 2009)

● BORING LOCATION EXCEEDING INDUSTRIAL  
DEFAULT CLOSURE LEVELS (MAY 2009)

**NOTE:**  
BORINGS LOCATED FROM INDEPENDENT LAND SURVEYING DRAWING  
NUMBER 071008 REPLACING DATED 17 JUNE 2008.



0 20 40  
SCALE IN FEET

**HADE & ALDRICH**  
COLUMBIAN CONSULTING INC.  
LOT 2A, 2B AND 3  
COLUMBIAN, INDIANA

SOIL CONCENTRATIONS IN EXCESS  
OF MAY 2008 RESIDENTIAL AND /  
OR INDUSTRIAL CLOSURE LEVELS

SCALE: AS SHOWN  
SEPTEMBER 2009

FIGURE 1

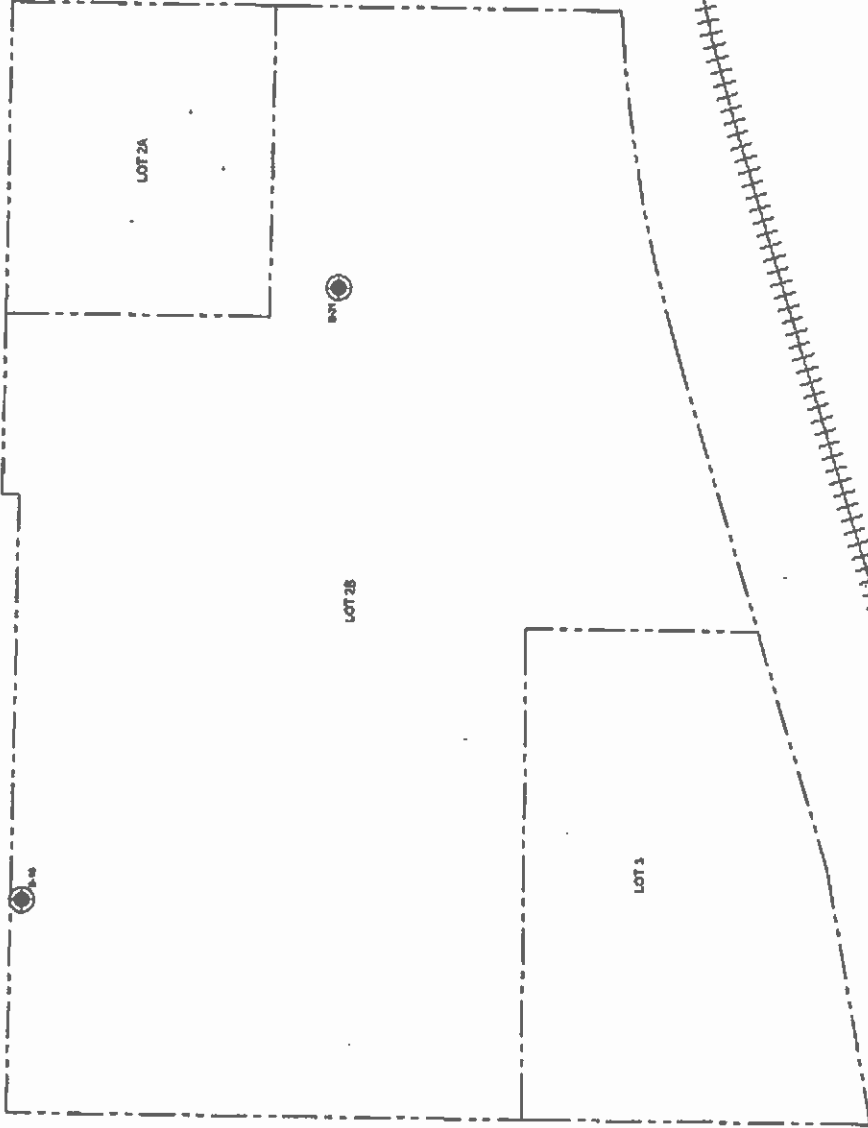
**LEGEND**

--- PROPERTY LINE

++++ RAILROAD

◆ BORING LOCATION EXCEEDING RESIDENTIAL  
DEFAULT CLOSURE LEVELS (MAY 2009)

○ BORING LOCATION EXCEEDING INDUSTRIAL  
DEFAULT CLOSURE LEVELS (MAY 2009)



**NOTE:**  
MODIFIED FROM INDEPENDENT LAND SURVEYING DRAWING  
NUMBER 071804, REPLAT.DWG DATED 17 JUNE 2008.



**HALEY & ALDRICH**  
COLLEEN DONOVAN INC.  
1011 JAMES STREET  
DUNSMUIR, IDAHO

**GROUNDWATER CONCENTRATIONS  
IN EXCESS OF MAY 2009 RISC  
RESIDENTIAL AND / OR INDUSTRIAL  
CLOSURE LEVELS**  
SCALE: AS SHOWN  
SEPTEMBER 2009

**FIGURE 2**

**EXHIBIT C**

**Copy of Comfort Letter**

## **TABLES**

### **Table 1**

**SIECO - September 1999**

**Soil Samples Results above RISC RDCLs and/or IDCLs**

### **Table 2**

**August Mack - June 2002**

**Soil Samples Results above RISC RDCLs and/or IDCLs**

### **Table 3**

**August Mack - June 2002**

**Groundwater Samples Results above RISC RDCLs and/or IDCLs**

### **Table 4**

**Haley & Aldrich May 2007/June 2008**

**Soil Sample Results above RISC RDCLs and/or IDCLs**

**TABLE 1**

**SIECO - September 1999**  
**Soil Sample Results above RISC RDCLs and/or IDCLs**

Contaminant	Sample Location/Depth & Results parts per million (ppm)			RDCL	IDCL	IDCL Direct Contact	Construction Worker
	B-3 (7-8 feet bgs)	B-4 (9-10 feet bgs)	B-5 (19-20 feet bgs)				
naphthalene	4.7	<5.0	<0.5	0.7	170	8,000	17,000
2-methylnaphthalene	4.4	<5.0	<0.5	3.1	42	1,600	3,300
ideno(1,2,3-cd) pyrene	<0.5	5	<0.5	3.1	3.1	15	790
benzo(a)anthracene	<0.5	6.4	<0.5	5	15	15	790
benzo(b)fluoranthene	<0.5	16	<0.5	5	15	15	790
benzo(a)pyrene	<0.5	9.4	1.03	0.5	1.5	1.5	79

Note: bold = >IDCL

**TABLE 2**

**August Mack - April 2002**  
**Soil Sample Results above RISC RDCLs and/or IDCLs**

Contaminant	Sample Location/Depth & Results parts per million (ppm)		RDCL	IDCL	IDCL Direct Contact	Construction Worker
	B-18 (2-4 feet bgs)	B-21 (10-12 feet bgs)				
naphthalene	0.78	200	0.7	170	8,000	17,000
arsenic	6.3	6.8	3.9	5.8	20	320

Note: bold = >IDCL

**TABLE 3**

**August Mack - April 2002  
Groundwater Samples above RISC RDCLs and/or IDCLs**

Contaminant	<i>Sample Location/Depth &amp; Results parts per billion (ppb)</i>		RDCL	IDCL
	B-18 (19-23 feet bgs)	B-21 (12-16 feet bgs)		
TPH-DRO*	1,200	1,600	260	2,500
arsenic	<100	240	10	10
chromium**	<10	120	100	310
lead	<50	120	15	42
selenium	<100	290	50	510
dibenzofuran	29	68	15	200
naphthalene	220	170	8.3	2,000
phenanthrene	66	120	23	310
2-methylnaphthalene	41	59	31	410

Notes: **bold = >IDCL**

\*= IDEM RISC TPH Closure Level July 2009 Update

\*\*compared to chromium VI



TABLE 4

Haley & Aldrich May 2007/June 2008  
Soil Sample Results above RISC RDCLs and/or IDCLs

Contaminant	Sample Location/Depth & Results parts per million (ppm)			RDCL	IDCL	IDCL Direct Contact	Construction Worker
	HAB-3 (22-22.5 ft)	HAB-6 (4-4.25 ft)	HAB-7 (4.5-5.0 ft)				
naphthalene	1.14	<0.005	<0.005	0.7	170	8,000	17,000
pentachlorophenol	<1.78	<1.70	<1.72	0.028	0.66	54	3,800
TPH-GRO	374	<16	<16.1	120	1,500	-	10,000

Contaminant	Sample Location/Depth & Results parts per million (ppm)					RDCL	IDCL	IDCL Direct Contact	Construction Worker
	HAB-8 (0-0.5 ft)	HAB-8 (12-12.5 ft)	HAB-9 (11-11.5 ft)	HAB-10 (0-0.5 ft)	HAB-11 (0-0.5 ft)				
arsenic	11.5	4.3	5.4	<2	<2	3.9	5.8	20	320
pentachlorophenol	<1.68	<1.93	<1.95	<1.67	<1.70	0.028	0.66	54	3,800
benzo(a)pyrene	0.41	<0.40	<0.40	<0.34	0.68	0.5	1.5	1.5	79

Note: bold = >IDCL



# **Bruce Carter Associates, L.L.C.**

**ENVIRONMENTAL CONSULTANTS**

*AIR • WATER • SOLID WASTE • OSHA • REMEDIATION SERVICES*

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**RWP ADDENDUM 2  
CLOSURE AND POST-CLOSURE  
FORMER COLUMBUS WOOD TREATING  
53 LAFAYETTE AVENUE  
Columbus, Indiana 47201  
Bruce Carter Associates, LLC  
February 18, 2014**

## **1.0 BACKGROUND AND PURPOSE**

### **1.1 Background**

The former Columbus Wood Treating site, located at 53 Lafayette Avenue, includes a single parcel totaling 1.24 acres. Coal and coke processing appears to have been conducted on the site from 1885 to 1903 and wood treating operations began in the 1920's. Wood treating included the use of creosote and pentachlorophenol. The plant was closed in 1970 and the buildings were destroyed in a fire in 1971. All structures were removed and the site was covered with foundry sand fill.

Remedial activities were conducted on the site in 2012 in accordance with a Remediation Work Plan (RWP), dated March 15, 2012, as prepared by Bruce Carter Associates, L.L.C. (BCA) and approved by the Indiana Brownfield Program (IBP). BCA provided technical observation for the remediation which was conducted by HIS Constructors, Inc (HIS) under contract to the Columbus Redevelopment Commission (CRC). Funding for the project was provided (mostly) through loans from the Indiana Finance Authority (IFA) with regulatory oversight from the IBP.

The remediation included primarily in-situ solidification/ stabilization of impacted on-site soil in the vadose zone, as well as some in the saturated zone. Other tasks included soil removal for landfill disposal, and removal and disposal of an underground storage tank (UST) and associated tank liquids. Upon completion, the treated area was covered with several feet of clean overburden soil, an impermeable geomembrane, 2½ feet of granular cover and topsoil and a vegetative cover. The soil remediation work was completed on June 30, 2012 and final tank residuals disposal was completed in August, 2012. A Closure Report, dated September 28, 2012, was submitted to and accepted by IBP. The RWP required the installation of additional soil borings/monitoring wells in the down-gradient direction from the site, and monitoring of groundwater from all on-site and off-site wells every six months for a period of two years.

A total of 14 new monitoring wells (MW-15 to MW-22D) were installed on and downgradient of the site in August and September, 2012. The first round of post-remediation groundwater samples was collected from September 26-28, 2012. The results were submitted to the CRC and the IBP in a letter report dated November 5, 2012. The results of the first round of post-remediation groundwater samples indicated that the plume of impacted groundwater extended further downgradient beyond the limits of the new wells. Based on the first round of samples the IBP required the installation of three additional downgradient monitoring wells and two one-time groundwater probe samples.

The probes and wells were installed in February 2013 and the second full round of groundwater samples were collected from April 16 to May 2, 2013. The results were submitted to the CRC and IBP in a report dated July 11, 2013. Measurable free product was found to be present in two of the wells at and downgradient of the source of the plume. Based on the sampling results the plume was found to extend to the southeast beyond the downgradient wells.

## **1.2 Purpose**

This document is Addendum 2 to the RWP dated March 15, 2012. The purpose of this Addendum is to establish the conditions necessary to receive a No Further Action letter. The City of Columbus seeks to close the site in accordance with IND. CODE 13-12-3-2 and 13-25-5-8.5 (as amended) and the Risk Integrated System of Closure (RISC) guidance, and the 2012 Remediation Closure Guide (RCG) guidance (as amended). Specifically, the City seeks closure by reducing the source and implementing a risk management program to control future exposure pathways. Exposure pathways have or will be managed with institutional controls (ICs), or other appropriate measures to be implemented post-closure, which may include, among other measures, environmental restrictive covenants (ERC) with potential restrictions on surface soil excavation and groundwater use and/or an environmental restrictive ordinance (ERO). Potential exposure pathways include surface soil, subsurface soil, groundwater ingestion and vapor intrusion.

### Surface Soil

Prior to remediation, surface soil on the site was determined to contain PAHs in excess of the RISC Residential Default Closure Levels (RDCLs), but not in excess of the Recreational or Industrial DCLs. Most (but not all) of the surface soil exceeding the RDCLs was removed or covered. The residential exposure pathway will be

controlled through an IC, specifically, an ERC limiting land use to recreational or commercial/industrial.

#### Subsurface Soil

Prior to remediation in 2012, subsurface soil was found to exceed the ICL-direct and construction limits for SVOCs, mostly from about 7 to 20 feet. Vadose zone subsurface soil was remediated by treatment or removal of all soil exceeding the ICL-Direct from the surface to 10 feet below grade, ICL-Construction from 10 to 20 feet, or an ICL-Direct value for PCP. Treated soils were covered by several feet of fill (containing <IDCL), a geomembrane, and 2.5 feet of clean fill, top soil and vegetative cover. The construction exposure pathway will be further controlled by an ERC requiring IDEM notification and appropriate protective measures prior to any excavation which penetrates to treated soil.

#### Migration to Groundwater

Soil on the site was found to exceed the limits for migration to groundwater. Most of the source material in the vadose zone was removed from the site or remediated by soil solidification/stabilization in 2012. The soil solidification/stabilization method was designed to reduce the potential migration to groundwater from the source material by reducing its permeability and leachability. Pilot tests for the design demonstrated permeability reduced to  $<10^{-6}$  cm/sec and leachability by 97.5% (based on naphthalene and PCP in SPLP extracts). Further, a geomembrane was installed over the treated area to reduce groundwater infiltration into the treated area.

#### Groundwater

A groundwater plume (exceeding the residential levels) is present on and downgradient of the site. There are no active private wells (other than monitoring wells) in or near the plume. The exposure pathway will be controlled by an ERO or ERCs (or other appropriate measures) prohibiting wells for use of the groundwater (other than monitoring) applicable to all parcels affected by the plume and to a distance downgradient. This area is referred to as the Exposure Control Area (ECA) and is depicted on Figure A.

#### Vapor Intrusion

No structures are present on the site, but a single structure (the Eynon Law Office at 551 1<sup>st</sup> Street) is present within 100 feet of the groundwater plume. Groundwater samples at the monitoring well located nearest the Eynon property (MW-9) indicated

naphthalene concentrations in the groundwater have been above the IDEM 2013 Remediation Closure Guide Vapor Intrusion Groundwater Screening Level – RCG VI GWSL) in two of five rounds including the most recent. See Section 2.1 below for a discussion of the effort to collect soil gas samples from the Eynon property in the fall of 2013.

A geothermal system was formerly used in the Eynon office building which included a geothermal well. The system was closed down in the early 1990's, reportedly due to the presence of creosote in the geothermal well water. The system has been removed but the status of the piping and well casing (located outside the office) is unknown.

At the request of the City and following approval of sampling plans by IDEM, BCA conducted ambient and indoor air sampling at and around the Eynon office on May 11, 2012, during active in-situ remediation activities. Wind conditions suggest the day was near the average for the remediation project: calm to light and variable breezes from the west to the southeast. The temperatures were a little higher, the wind speed a little lower and the direction a little more westerly than the average for the remediation project time period.

Samples were collected from inside the office, to the east between the office and the project site, west (generally upwind) of the office, and distant to the north of the area. Samples were tested by EPA method TO-13 for SVOCs and by EPA method TO-17 for VOCs. With the exception of Naphthalene, there were no significant detections. Naphthalene was detected in the office air sample at  $5.5 \text{ ug/m}^3$ , (slightly above the 2013 RCG SL of  $3.6 \text{ ug/m}^3$ ) and in the outdoor sample to the east at  $5.6 \text{ ug/m}^3$ . Naphthalene was also detected in the other ambient air samples. The samples to the west and far to the north are distant or upwind samples indicating naphthalene was found in the background at 1.9 to  $6.7 \text{ ug/m}^3$ . These data indicate that the naphthalene in the Eynon office indoor air was most likely partly due and may have been entirely due to background sources. The sampling effort was discussed in detail in the BCA report dated June 29, 2012: "Ambient and Nearby Indoor Air Sampling".

With respect to the potential for additional exposure due to groundwater plume migration, the stability of the plume will be monitored by post-closure groundwater monitoring. An ERC on the Site will require that prior to occupancy of any new structures, the potential for vapor intrusion will be assessed and IDEM will concur

that there is no unacceptable risk or confirm that additional measures, including mitigation, is necessary to address the potential VI pathway.

## **2.0 SCOPE OF WORK**

The sampling and analysis procedures will follow the Quality Assurance Project Plan and Standard Operating Procedures (QAPP and Field SOP) and those recommended by the IDEM 2001 RISC guidance (as updated through 2011) and the 2012 Remediation Closure Guide (RCG) (as updated through March 2013) where not addressed in the prior documents.

### **2.1 Closure Plan**

The purpose of the Closure Plan is to provide the information necessary to complete the evaluation and elimination of exposure pathways. Specifically, the plan completes the characterization of the plume, and addresses whether the potential vapor intrusion exposure pathway is complete.

#### Soil Gas Sampling

Out of an abundance of caution, the CRC elected to conduct soil gas sampling at the Eynon property. In taking the most conservative approach for the vapor intrusion exposure pathway, IDEM requested that two rounds of soil gas samples be collected from two locations adjacent to the nearby office building (See Appendix A for the approved SAP for this work). On December 2, 2013 BCA attempted to install the soil gas probes as specified in the SAP. However after meeting BCA staff and the drilling contractor on the premises, the property owner indicated that he had changed his mind and declined to allow the soil gas probes to be installed on his property. After consultation, IBP determined that in consideration of the property owner's request, the soil gas probe installation and sampling was suspended indefinitely. Should the owner change his mind and request sampling, the approved revised SAP for Soil Gas Sampling dated September 6, 2013 can be implemented or adjusted based on current standards. See the Vapor Intrusion pathway section above for discussion of the minimal exposure risk associated with the attempted soil gas sampling.

#### Groundwater Plume Limit Delineation

To complete the characterization of groundwater off-site, BCA proposes to install a series of temporary groundwater probes and permanent monitoring wells in two phases:

*Phase I* – Four (4) temporary direct push groundwater probes (B-32, B-33, B-34 and B-35) will be located as shown on the attached Figure A. Subsequent to the

probe installation, two (2) permanent monitoring wells (MW-26D and MW-27D) will be installed as near as practicable to the presumed center axis and on the northern edge of the plume, respectively. Specifically:

- The four temporary groundwater probes will be driven to the base of the water table aquifer (estimated 55 feet depth). Soil samples will be collected continuously and logged (see soil sampling procedures below). A temporary well casing and screen will be installed at the bottom of the probe hole and a groundwater sample collected (see groundwater sampling procedures below). Results of the sampling will refine understanding of the axis of plume migration in the area. A drawing and data will be submitted to IBP.
- Based on the results of the initial probe sampling, two (2) permanent monitoring wells will be installed. MW-26 will be placed along the axis of the plume and at a location estimated to be well within the limits of the plume. MW-27 will be installed near or beyond the northern edge of the plume. The new wells will be developed and sampled within two weeks after installation. The new wells will be surveyed and the water levels will be measured in nearby wells. The new data will be submitted to IBP in figures and tables.

*Phase II* – Based on the results of Phase I, as submitted to IBP as described above, additional temporary probe and monitoring well locations will be proposed for IBP approval. Three (3) additional temporary groundwater probes (B-36, B-37, and B-38) and one (1) additional permanent groundwater monitoring well (MW-28) will be installed downgradient from the Phase I probes and monitoring wells to provide additional delineation of the central axis of the plume and the downgradient limits of plume migration. Possible locations of Phase II probes and well are shown on Figure A; however the exact locations will be determined by the results of Phase I. The goal will be to place the temporary probes near but within the leading edge of the plume and to place the last monitoring well (MW-28D) beyond the leading edge to serve as a sentinel well. Temporary probes and the permanent monitoring wells will be installed as described above.

Free Product Delineation. Free product was recently identified in MW-24D and the downgradient extent of free product is not known. The downgradient limit will be determined during the plume delineation tasks described above. Once the limit is known, BCA will consult with IBP to determine the placement of three Free Product



Piezometer Probes (B-39, B-40, and B-41) that will be installed to the base of the aquifer. Although shown at the locations previously proposed on the attached Figure A, those locations will be adjusted after consultation with IBP. Soil will be sampled continuously during probe advancement near the bottom of the aquifer, and the presence and thickness of any visibly-impacted zone(s) will be noted on the boring logs. Permanent piezometers (1-inch ID PVC with 10-foot PVC screens) will be installed at the bottom of the probe and will be sealed to the surface and a steel protective cover will be installed in concrete. An interface probe will be used to measure for the presence and thickness of any free product (if any). Consistent with prior discussions, no groundwater or soil samples will be analyzed from probes/piezometers containing free product.

Upgradient Wells. Based on the data, no further sampling and analyses will be required for four upgradient monitoring wells (MW-1, MW-3, MW-5 and MW-8). Since 2007, four rounds of samples have been collected from MW-1 and three rounds from each of the other three wells. Low levels, below the RDCL, were detected in MW-3 in 2007, but there have been no detections since then. All four wells will be permanently abandoned (in accordance with DNR requirements) by sealing the casing with bentonite and removing the steel protective covers.

## **2.2 Post-Closure Plan**

To ensure that there remains no unacceptable risk in connection with residual contamination, the CRC proposes a post-closing stewardship plan. The CRC suggests that after it is determined that there is an adequate understanding of plume behavior, then a Stewardship Agreement be executed for any future work. This plan would identify the future obligations to receive NFA determination. The obligations may include, among other measures, ERCs, an ERO, and/or other appropriate measures to prevent or control some exposure pathways and a groundwater monitoring plan to confirm that the CSM for the site remains valid.

## **2.3 Field Methods**

The following sections summarize the field methods applicable to this SAP. For detailed information on field methods see the Field Standard Operating Procedures (Appendix D of the RWP).

### Groundwater Probe/Temporary Well Installation/Free Product Piezometers

Probes will be advanced by means of direct push technology. With the exception of Free Product Piezometer probes and locations that have already been sampled to

depth, the probes will be sampled continuously by utilizing 4-foot long macro-bore rods equipped with an acetate inner liner. Soil samples will be screened in the field with a photo-ionization detector (PID) and logged in accordance with the Unified Soil Classification System (UCS). Field evidence of contamination (PID, olfactory or staining) will be noted.

Groundwater samples will be collected by use of temporary 1" PVC sampling points placed in selected boreholes. Sampling will be conducted with a non-contact stainless steel submersible bladder pump. Groundwater will be purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (revised November 3, 2009) to the extent possible. Field parameters (Temperature, Conductivity, Dissolved Oxygen, pH, and Oxygen Reduction Potential) will be monitored in each temporary sampling point during purging until at least three (3) parameters have stabilized. If groundwater monitoring parameters cannot be stabilized, a sample will be collected regardless and a note will be recorded in the field book. Groundwater samples will be pumped directly into sample bottles (of types specified by the EPA methods) provided by the analytical laboratory.

For Free Product Piezometer locations 1-inch ID PVC casing with 10-foot PVC screens will be installed at the bottom of the probe and will be sealed to the surface and a steel protective cover will be installed in concrete. An interface probe will be used to measure for the presence and thickness of any free product (if any).

Soil cuttings and purge water from impacted areas will be treated as indicated below in Section 2.6.

#### Monitoring Well Installation

Borings will be advanced using 4<sup>1</sup>/<sub>4</sub> inch hollow stem augers. Soil samples will be collected continuously during drilling unless the location has been previously sampled. Samples will be collected through the augers using a 1<sup>1</sup>/<sub>2</sub> inch split spoon sampler driven 2 feet below the augers and retrieved and opened. Each split spoon sample will be screened using a Photoionization detector (PID). Soil cuttings and purge water from impacted areas will be treated as indicated below in Section 2.6.

Once the total depth for each well is reached a monitoring well will be constructed. Wells will be constructed of a 2-inch diameter 10-foot section of 0.010-inch slotted schedule 40 PVC well screen and 2-inch diameter PVC riser. Sand will be installed to two feet above the well screen, followed by a 2-foot bentonite seal. The annulus will be grouted to the surface and a 6 inch diameter flush mount steel protective cover will be concreted in place. All wells will be developed until the water being

extracted is visibly clear.

#### Groundwater sampling

Groundwater will be collected through disposable or dedicated tubing connected to a 12-volt submersible pump. Groundwater will be purged and sampled following the IDEM Micro-Purge (Low-Flow) Sampling Option (revised November 3, 2009) to the extent possible. Field parameters (Temperature, Conductivity, Dissolved Oxygen, pH, and Oxygen Reduction Potential) will be monitored in each temporary sampling point during purging until at least three (3) parameters have stabilized. If groundwater monitoring parameters cannot be stabilized, a sample will be collected regardless and a note will be recorded in the field book. Groundwater samples will be pumped directly into sample bottles (of types specified by the EPA methods) provided by the analytical laboratory.

## **2.4 Laboratory Methods**

All groundwater samples will be analyzed for SVOCs by method 8270/8270SIM. In addition, all groundwater samples will be tested for the following geochemical parameters by field methods (as required for low-flow sampling):

- Temperature
- Specific conductivity
- pH
- oxygen reduction potential (ORP)
- Dissolved Oxygen

## **2.5 Quality Control**

Quality control samples are collected and analyzed to assess the quality of the data resulting from the field sampling program. Quality control samples and laboratory reports will meet the requirements of the guidance. Equipment blanks will be collected for this project for any samples collected using non-disposable equipment and will include one (1) for the groundwater sampling equipment and one (1) for the soil sampling equipment. One (1) trip blank will be collected for the project (for CAHs only). Field duplicate samples for each matrix will be collected at the rate of one (1) per 20 investigative samples per sample matrix. Matrix spikes and matrix spike duplicates (MS/MSD) will be collected at a rate of one (1) per 20 investigative samples per sample matrix. The laboratory will include a DQO Level IV report package for final closure groundwater samples. Other laboratory reports will include a Level II report package.

## **2.6 Decontamination & Waste Handling**

Sampling equipment utilized at the site will be decontaminated using a non-phosphate detergent wash and distilled water rinse prior to and following the collection of each sample to reduce the potential for cross contamination. All other procedures used to decontaminate equipment will be documented. Where practical, disposable sampling equipment will be used to eliminate the need for decontamination. Decontamination wash water from impacted locations will be treated as hazardous waste. Soil cuttings and purged groundwater from impacted zones will be treated as hazardous waste. Soil containing pentachlorophenol below the IDEM commercial direct exposure screening level may be treated or disposed as non-hazardous waste. Groundwater containing pentachlorophenol below RCRA limits may be handled as non-hazardous waste.

## **2.7 Report**

Observations and data from each phase of this RWP Addendum 2 will be submitted in figures and tables in draft form to facilitate input from IBP. The final data generated by field investigation will be summarized in a bound or electronic (PDF) report that will be included in the next scheduled groundwater monitoring report (spring of 2014). The report will contain a detailed explanation and documentation of sample locations and collection procedures. The analytical data will be summarized and conclusions discussed to the extent possible.

### 3.0 COST

The estimated costs of performing the proposed services are summarized below:

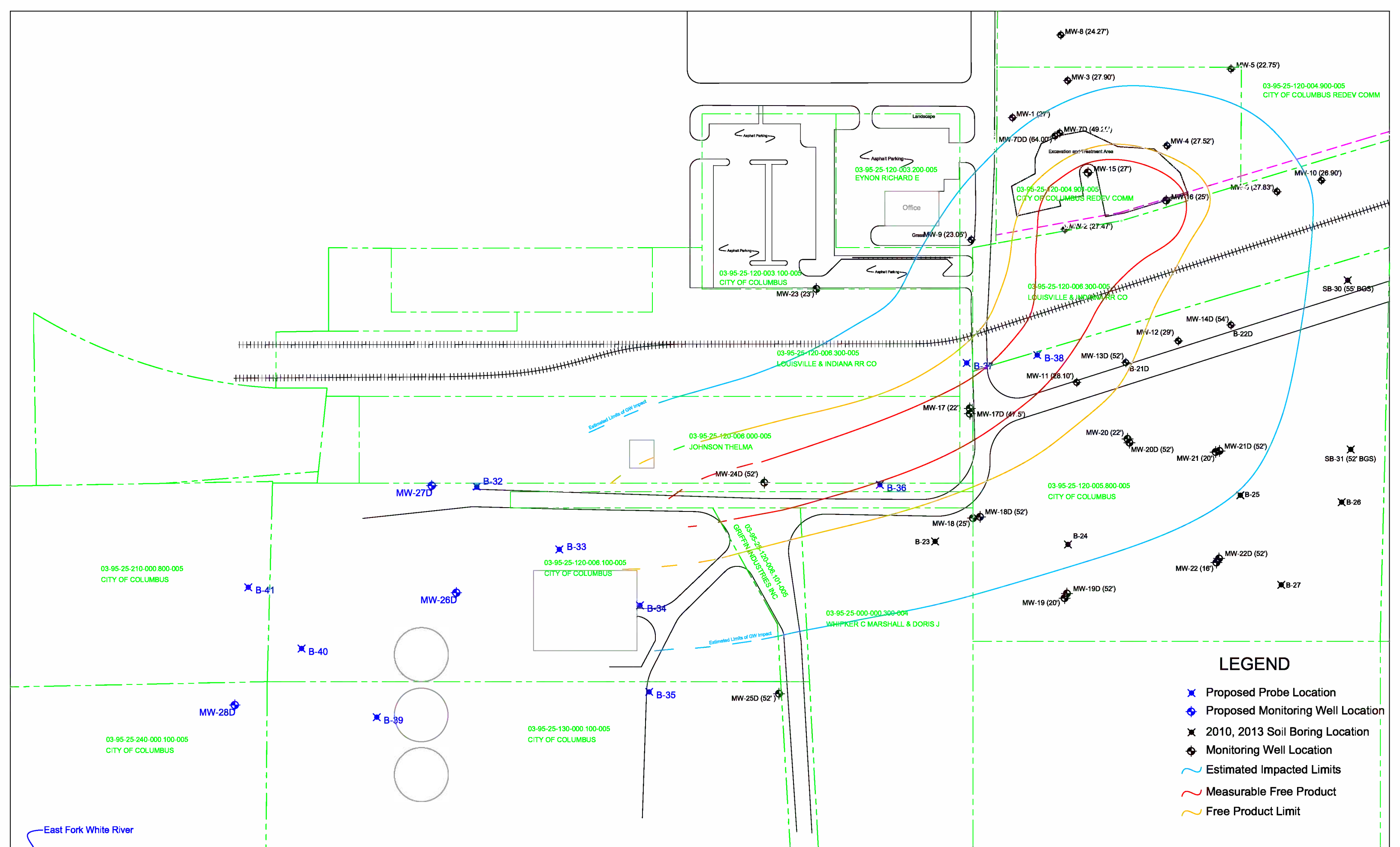
HIS Constructors – \$48,027.

- Install seven probes/temporary wells to 55'
- Install three permanent 1-inch diameter points to 55'
- Install three (permanent) 2-inch monitoring well to 55'
- Abandon four (4) existing monitoring wells per DNR
- Dispose up to four (4) drums purge water (hazardous waste)

BCA - \$46,088

- Planning, IBP/City/Contractor coordination, SAP
- Sample and oversee probe/temporary well installation;
- Sample analysis, summary of results, IDEM coordination;
- Log, develop and sample new wells and abandonment of old wells;
- Documentation & reports.

The costs are broken down in detail on the attached tables and contractor quotes. The costs would not be exceeded without approval of the client. BCA will invoice monthly on a time and materials basis per the approved contract fee schedules.



LEGEND

- ✱ Proposed Probe Location
- ⊕ Proposed Monitoring Well Location
- ✱ 2010, 2013 Soil Boring Location
- ⊕ Monitoring Well Location
- ~ Estimated Impacted Limits
- ~ Measurable Free Product
- ~ Free Product Limit



Bruce Carter Associates, LLC  
6330 E. 75th SUITE 150  
INDIANAPOLIS, IN 46250  
317-578-4233



DATE:  
12/06/2013  
SCALE:  
1"=100'

DRAWING TITLE  
**Proposed Wells  
Impacted Groundwater Limits**

PROJECT LOCATION:  
Former Columbus Wood Treating  
53 Lafayette Ave  
Columbus, Indiana

DRAWN BY:  
BCA PROJECT NO  
11-262

FIGURE  
**A**

<b>CAT 2:</b>	<b>Monitoring Well Installation Oversight and Sampling Winter 2014</b>						<b>\$46,088</b>
	Install 7 temporary wells/probes, 3 permanent probes and 3 permanent Monitoring wells.						
	Sample Temporary probes & permanent wells.						
	Summary Results						
<b>Task 1:</b>	Planning, IBP/City/Contractor coord, Sampling & Analysis Plan						
	includes all related tasks (other than soil gas) from July 2013 - January 2014.						
	Senior Engineer		65	hr	105	6825	<b>\$8,585</b>
	Pjt Mgr/Geol/Scientist III		20	hr	88	1760	
<b>Task 2:</b>	Install Probes (B-32 to B-35)						<b>\$10,920</b>
	Field prep, sampling, handling						
	Senior Engineer		12	hr	105	1260	
	Pjt Mgr/Geol/Scientist III		61	hr	88	5368	
	Field Expenses						
	Misc Field Supplies		3	day	25	75	
	Water level meter		3	day	12	36	
	Interface Probe		1	ea	200	200	
	1-inch GW pump (low flow)		1	day	100	100	
	GW flow cell/multi sonde		1	day	150	150	
	0.170" Poly dual tube		260	ft	1.75	455	
	Travel - Mileage RT = 4		520	mi	0.4	208	
	Hotel (1 person)		0	ea	105	0	
	Subcontracts						
	Laboratory Analyses						
	GndWtr SVOC/PAH 8270SIM		4	ea	189.75	759	
	GW Field QA/QC Samples		3	ea	189.75	569.25	
	Drilling Contractor & drum disposal - See Contracting Section						
	Summary data after sampling						
	Senior Engineer		4	hr	105	420	
	Project Mngr/Scientist		15	hr	88	1320	
<b>Task 3:</b>	Install New Monitoring Wells & Abandon Old wells, sample new (MW-26, MW-27)						<b>\$7,327</b>
	Field prep, sampling, handling						
	Senior Engineer		8	hr	105	840	
	Pjt Mgr/Geol/Scientist III		51.5	hr	88	4532	
	Field Expenses						
	Misc Field Supplies		4	day	25	100	
	Pumps (2-inch dedicated)		2	ea	175	350	
	3/8" Poly sample tubing		110	ft	1.0	110	
	GW flow cell/multi sonde		1	day	150	150	
	Water level meter		3	day	12	36	
	Travel - Mileage RT = 5		650	mi	0.4	260	
	Hotel (1 person)		0	ea	105	0	
	Subcontracts						
	Laboratory Analyses						
	GndWtr SVOC/PAH 8270SIM		2	ea	189.75	379.5	
	GW Field QA/QC Samples		3	ea	189.75	569.25	
	Drilling Contractor - See Contracting Section						
<b>Task 4:</b>	Install Probes (B-36 to B-41)						<b>\$12,446</b>

	Field prep, sampling, handling						
	Senior Engineer		8	hr	105	840	
	Pjt Mgr/Geol/Scientist III		84.5	hr	88	7436	
	Field Expenses						
	Misc Field Supplies		4	day	25	100	
	Water level meter		3	day	12	36	
	Interface Probe		1	ea	200	200	
	1-inch GW pump (low flow)		1	day	100	100	
	GW flow cell/multi sonde		1	day	150	150	
	0.170" Poly dual tube		195	ft	1.75	341.25	
	Travel - Mileage RT = 7		910	mi	0.4	364	
	Hotel (1 person)		0	ea	105	0	
	Subcontracts						
	Laboratory Analyses						
	GndWtr SVOC/PAH 8270SIM		3	ea	189.75	569.25	
	GW Field QA/QC Samples		3	ea	189.75	569.25	
	Drilling Contractor & drum disposal - See Contracting Section						
	Summary data after sampling						
	Senior Engineer		4	hr	105	420	
	Project Mngr/Scientist		15	hr	88	1320	
<b>Task 5:</b>	Install New Monitoring Well (MW-28)						<b>\$4,085</b>
	Field prep, sampling, handling						
	Senior Engineer		5	hr	105	525	
	Pjt Mgr/Geol/Scientist III		35.5	hr	88	3124	
	Field Expenses						
	Misc Field Supplies		2	day	25	50	
	Pumps (2-inch dedicated)		1	ea	175	175	
	3/8" Poly sample tubing		55	ft	1.0	55	
	Travel - Mileage RT = 3		390	mi	0.4	156	
	Hotel (1 person)		0	ea	105	0	
	Subcontracts						
	Laboratory Analyses						
	GndWtr SVOC/PAH 8270SIM		0	ea	189.75	0	
	GW Field QA/QC Samples		0	ea	189.75	0	
	Drilling Contractor - See Contracting Section						
<b>Task 6:</b>	Addition to next GW sampling Report						<b>\$2,725</b>
	Senior Engineer		5	hr	105	525	
	Project Mngr/Scientist		25	hr	88	2200	



## Ken Polston

---

**From:** John Kilmer <jkilmer@bcaconsultants.com>  
**Sent:** Monday, December 23, 2013 12:32 PM  
**To:** Ken Polston  
**Cc:** Len Hinrichs  
**Subject:** Columbus - CHANGE ORDER FOR ADDITIONAL WELLS

Ken:

Please forward to your drilling sub:

Unfortunately, due to unexpected groundwater testing results, we have to change the scope of work (# of probes & wells) again. From EEL's 9-5-13 proposal, changes as follows:

Item 1 (first mobilization). Four groundwater probes (instead of seven).

Item 4 (second mobilization). Two 4.25-inch soil borings (instead of one) completed as MWs. Borings to be continuously sampled (rather than blank-drilled).

Please add a second quote as follows:

Third mobilization - Three groundwater probes (same as above).

Plus three 55-foot probes (w/ 1-inch ID, 10-foot screen, seal annulus to surface, concrete & steel procover (stick-up).

Second mobilization - One 4.25-inch boring/monitoring (same as above).

This 2nd set of probes & well will follow a month or two after the monitoring wells for the first group.

John.

-----Original Message-----

From: John Kilmer [mailto:[jkilmer@bcaconsultants.com](mailto:jkilmer@bcaconsultants.com)]  
Sent: Tuesday, October 22, 2013 3:18 PM  
To: 'Ken Polston'  
Cc: Jeff Mathis (jmathis@earthengr.com); Len Hinrichs (lhinrichs@bcaconsultants.com)  
Subject: RE: Columbus - CHANGE ORDER FOR ADDITIONAL WELLS

All:

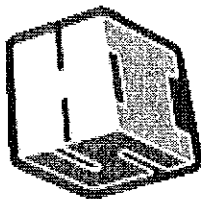
No such luck. We're back in a holding pattern. I'll let you know when we are back on track.  
John.

-----Original Message-----

From: John Kilmer [mailto:[jkilmer@bcaconsultants.com](mailto:jkilmer@bcaconsultants.com)]  
Sent: Friday, October 18, 2013 3:48 PM  
To: 'Ken Polston'  
Cc: Jeff Mathis (jmathis@earthengr.com); Len Hinrichs (lhinrichs@bcaconsultants.com)  
Subject: Columbus - CHANGE ORDER FOR ADDITIONAL WELLS

Ken/Jeff:

# Former Wood Treating Facility Columbus, IN (Soil Borings & Monitoring Wells)



## HIS Constructors, Inc.

5150 East 65th Street, Suite B

Indianapolis, IN 46220-4817

Contact: Ken Polston

Phone: (317) 284-1195

Fax: (317) 284-1185

Quote To: BCA Consultants

Name of Job: Former Wood Treating Facility

Attn: John Kihner  
Phone: 317-578-4233

Plans by:

Date of Plans:

Revision Date:

Fax:

Date of Bid:


January 2, 2014

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
10	HIS PERSONAL ONSITE	7.00	DAY	600.00	4,200.00
20	PER QUOTE FROM EARTH EXPLORATION DATED 12/27/2013	1.00	LS	16,157.50	16,157.50
30	DRUM DISPOSAL SOIL CUTTING (NON- HAZARDOUS SOLIDS)	1.00	EACH	232.00	232.00
40	DRUM DISPOSAL LIQUID DECO WATER (HAZARDOUS)	2.00	EACH	433.00	866.00
<b>GRAND TOTAL</b>					<b>\$21,455.50</b>

### NOTES:

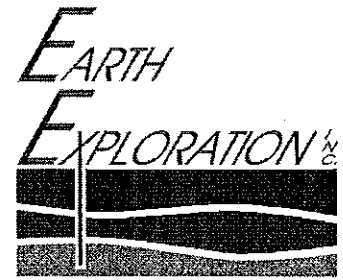
1. BCA will be billed actual invoices plus 15% for Earth Exploration and EQ.

We appreciate the opportunity to submit this proposal. If you have any questions or require further information, please call me at 317-284-1195.

Sincerely,  
HIS CONSTRUCTORS, Inc.  
  
Ken Polston  
Senior Estimator / Project Manager

December 27, 2013

Mr. Ken Polston  
HIS Constructors, LLC  
5150 E. 65th Street, Suite B  
Indianapolis, IN 46220-4817



7770 West New York Street  
Indianapolis, IN 46214-2988  
317-273-1690 (FAX) 317-273-2250

2204 Yankee Street  
Niles, MI 49120  
269-262-4320 or 574-233-6820  
(FAX) 269-262-4479

Re: Environmental Soil Borings  
and Monitoring Wells  
Former Columbus Wood Treating  
Columbus, Indiana  
EEI Proposal No.: P1-13-466.2

Dear Mr. Polston:

We are pleased to submit our revised cost estimate for the referenced work. This proposal is in response to your request in an electronic message on December 26, 2013. At this time, we understand the general scope of work will include the following:

1. In the first mobilization, four soil probes to a depth of about 55 ft each with continuous soil sampling (48-in. drives). Groundwater samples are planned to be collected by others at each of these locations via temporary PVC sample points installed by EEI. The probes are anticipated to be located on soil and accessible by gravel paths. Others will remove the PVC and fill with bentonite supplied by us;
2. Abandonment of four 2-in. I.D. PVC wells to a depth of approximately 50 ft each in-place. The protective covers will be removed, the wells will be backfilled with bentonite chips, the casing cut off at a depth of about 2 ft below the ground surface, a concrete plug placed and the area finished in-kind;
3. Submitting well abandonment records to the Indiana Department of Natural Resources;
4. In a second mobilization, two soil borings advanced with 4¼-in. I.D. hollow stem augers to a depth of 55 ft with no soil sampling. The borings are reported to be situated on soil and accessible by a gravel path. The soil borings will be completed as a 2-in. I.D. Schedule 40 PVC wells with 10 ft of 10-slot screen (machine cut), sand to about 2 ft above the screen, a bentonite chip seal, cement-bentonite grout to near the surface, an expandable locking cap and an above-ground well cover concreted in place. Others will develop the wells; and
5. Drilling tools and augers will be decontaminated prior to mobilization, between borings and before demobilization, while the probe samplers will be washed with detergent (Liquinox or similar) and rinsed with tap water between samples. Auger cuttings from the borings will be spread out on site while decontamination water and well development water will be contained in 55-gal drums (DOT17H) to be left on-site for disposal by others.

Based on this information, we estimate the total cost to be on the order of \$14,050 as outlined in the attached Cost Estimate per Davis-Bacon Wage rates. The estimated total is based, in part,

*EARTH EXPLORATION* <sup>INC.</sup>

Mr. Ken Polston  
HIS Constructors, LLC  
Former Wood Treating Facility – Columbus, IN

December 27, 2013  
Page 2

on the soil boring/well locations being accessible to our truck-mounted drilling equipment and the probe locations being accessible to out track-mounted probe equipment, no standby or special services time, a source of water available on the site and all on-site work being performed under Level D personnel protection guidelines. Please note that due to the volatility of material costs, we reserve the right to increase prices after 30 days from the date of this proposal.

We expect to complete the assignment in 4 days for the probing/abandonments and 1½ days for the monitoring wells using a two-person crew depending on the actual workscope and site, subsurface and weather conditions. Earth Exploration, Inc. will be required to contact Indiana 811 for public utility locates. Any private utilities, buried storage tanks or other subsurface appurtenances will be the responsibility of your company or a representative of the owner.

If you elect to utilize our services, please issue a purchase order referring to our proposal number. Thank you for your consideration.

Sincerely,

**EARTH EXPLORATION, INC.**



Jeffrey D. Mathis  
Exploratory Field Services Manager



Richard D. Olson, P.E.  
President

Attachment: Cost Estimate

**COST ESTIMATE**  
**Test Borings and Monitoring Wells**  
Former Columbus Wood Treating  
Columbus, Indiana

Mobilization and demobilization	2 LS	\$400.00 / LS	\$800.00
Well abandonment	3 hr	\$182.00 / hr	\$546.00
Direct push sampling	36 hr	\$182.00 / hr	\$6,552.00
Direct push supplies			
Macro liners (48 in.)	32 ea	\$3.00 / ea	\$96.00
DT-21/22 liners (48-in., with catchers)	24 ea	\$5.00 / ea	\$120.00
Drilling with 4¼-inch I.D. hollow stem augers			
0 - 30 ft deep	60 ft	\$11.20 / ft	\$672.00
30 - 60 ft deep	50 ft	\$12.60 / ft	\$630.00
Split spoon samples	ea	\$16.80 / ea	
Pipe material - 1-in. I.D. Schedule 40 PVC			
Riser (5-ft section)	4 ea	\$8.00 / ea	\$32.00
Riser (10-ft section)	16 ea	\$12.00 / ea	\$192.00
Screen (5-ft section)	ea	\$13.00 / ea	
Screen (10-ft section)	4 ea	\$18.00 / ea	\$72.00
End plug	4 ea	\$5.00 / ea	\$20.00
Slip cap	4 ea	\$1.00 / ea	\$4.00
Pipe material - 2-in. I.D. Schedule 40 PVC			
Riser	100 ft	\$2.50 / ft	\$250.00
Screen	20 ft	\$4.00 / ft	\$80.00
End plugs	2 ea	\$8.00 / ea	\$16.00
Expanding caps	2 ea	\$21.00 / ea	\$42.00
Miscellaneous supplies			
Bentonite chips or powder	7 bag	\$11.00 / bag	\$77.00
Bentonite grout	bag	\$20.00 / bag	
Bentonite pellets	2 bckt	\$60.00 / bckt	\$120.00
Concrete (regular)	5 bag	\$6.00 / bag	\$30.00
Cement (47 lb bag)	16 bag	\$7.00 / bag	\$112.00
Sand (50 lb bag)	14 bag	\$8.00 / bag	\$112.00
Protective covers (above-ground)	2 ea	\$95.00 / ea	\$190.00
Auger knockout plugs (4¼ in.)	2 ea	\$21.00 / ea	\$42.00
55-gallon steel drums	7 ea	\$40.00 / ea	\$280.00
Labor to install well materials	7 hr	\$182.00 / hr	\$1,274.00
Water hauling and auger washout	hr	\$182.00 / hr	
Decontamination and clean-up	4 hr	\$182.00 / hr	\$728.00
Well development	hr	\$182.00 / hr	
Other equipment, supplies and services			
Steam cleaner	2 day	\$50.00 / day	\$100.00
Standby or special services time	hr	\$182.00 / hr	
All-terrain mounted drilling equipment	day	\$100.00 / day	
Miscellaneous out-of-pocket expenses		cost + 10 %	
Debris removal	1 ea	\$100.00 / ea	\$100.00
Well abandonment records	1 LS	\$90.00 / LS	\$90.00
Submersible development pump (battery powered)	day	\$30.00 / day	
Per diem	day	\$60.00 / day	
Overnight living	night	\$150.00 / night	
Support truck	6 day	\$100.00 / day	\$600.00
Utility locate	1 LS	\$75.00 / LS	\$75.00

Estimated Total           \$14,054.00



# THE ENVIRONMENTAL QUALITY COMPANY

36255 MICHIGAN AVENUE • WAYNE, MICHIGAN 48184 • tel 800-592-5489 • fax 800-592-5329

## QUOTATION

DATE: SEPTEMBER 25, 2013

CUSTOMER: HIS

QUOTE No: 09252013KL

CONTACT: KEN POLSTON

PHONE: (317) 284-1195

FAX: (317) 284-1185

EMAIL: KEN.POLSTON@HISCONSTRUCTORS.COM

DEAR KEN,

EQ - The Environmental Quality Company is pleased to provide you with the following quotation for environmental management services. This pricing is contingent upon EQ credit approval as well as approval from the disposal facility (if applicable). Payment terms are net 30 days and this quotation is valid for 30 days.

<u>DUNKIRK, NY – TRANSPORTATION AND DISPOSAL</u>	<u>RATE</u>
--	-------------

WOOD TREATING LIQUIDS (HAZARDOUS)	\$202.65/DM55
NON-HAZARDOUS SOLIDS	\$42.00/STOP
LTL TRANSPORTATION	\$210.00/STOP + \$23/DRUM
THE PER DRUM FEE WILL ONLY APPLY TO THE HAZARDOUS DRUMS.	

**ADDITIONAL COSTS:**

- AN INSURANCE SURCHARGE OF 1.5% WILL APPLY TO ALL INVOICES.
- AN ENERGY SURCHARGE APPLIES TO DISPOSAL. THIS SURCHARGE IS ADJUSTED QUARTERLY AND IS CURRENTLY 7.0%
- A FUEL SURCHARGE (BASED UPON THE WEEKLY NATIONAL AVERAGE FUEL PRICES) WILL APPLY TO ALL DIESEL-RELATED EQUIPMENT CHARGES.
- FOR FURTHER CONTRACTUAL INFORMATION, REFER TO THE ATTACHED **EQ STANDARD TERMS AND CONDITIONS**.

Thank you for this opportunity - EQ appreciates your interest in our services. I believe this quotation meets your specifications but please contact me at (734) 329-8022 if you have any questions. We are prepared to proceed with the above described work upon issuance of your purchase order or by your signature on this quotation. Please return by fax or email to the location below.

*Amanda Kalinka, CHMM*

Amanda Kalinka, CHMM  
Customer Service Specialist  
Phone: (734) 329-8022 Fax: (734) 329-8142  
Amanda.Kalinka@EQOnline.com

**ACCEPTANCE OF QUOTATION:**

By: \_\_\_\_\_  
Signature and Title-Authorized Representative

Date: \_\_\_\_\_

**EQ IS THE ANSWER ^ WWW.EQONLINE.COM**

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the correct version.  
SLS-FM-001-COR

1/8/08

## EQ STANDARD TERMS AND CONDITIONS

### Waste Disposal Conditions (if applicable):

1. Prices and services are contingent upon approval from the disposal facility. Approval of this material will be based upon waste analysis; a generator signed waste profile and an evaluation of a representative sample (if required) for a treatability study.
2. Quoted bulk disposal charges for solid materials will be billed by the cubic yard if the waste density is less than 2,000 pounds per cubic yard. If waste density is greater than 2,000 pounds per cubic yard, then disposal charges will be billed by the ton.
3. Surcharges from disposal facilities based on "as received" waste characteristics are in addition to quoted rates.
4. Improperly classified and/or rejected loads will be returned to the customer at their expense.
5. The Michigan DEQ will assess a manifest fee for all hazardous waste manifests used in the State of Michigan.

### Industrial Services and Transportation Conditions (if applicable):

1. Washout or clean-out charges for residuals shall be at EQ cost+15% or at EQ Standard Rates unless otherwise specified.
2. A four (4) hour minimum and portal to portal charges apply to all equipment and personnel. Loading, unloading and cleaning of project specific materials and/or supplies, together with all regulatory preparation time shall be included in portal to portal charges.
3. For equipment, non-reusable materials, supplies and personnel not detailed in this quote but which become necessary to perform the work, EQ Standard Rates will be charged or cost plus 15% if not listed.
4. If disposal costs are not included in this quotation, the customer shall be responsible for securing disposal approvals and preparing all manifests and paperwork unless otherwise stated. These services, if performed and otherwise not quoted by EQ, shall be charged at \$40/hour.
5. This quote includes up to 1-hour loading/waiting time and up to 2 hours disposal time without extra cost. The customer shall be responsible for all waiting time of EQ outside the immediate control of EQ (i.e. no access to the work area/site, mandatory workplace breaks etc.) or any other influences outside the control of EQ. All loading or waiting time at the customer location beyond 1 hour and/or all disposal site time beyond 2 hours shall be surcharged at a rate of \$95/hour in ¼ hour increments. Such time shall be in addition to the base quotation and extend the fixed sum price.
6. In the event that the scope of work changes from that specified in this quote, out-of-scope work shall be at EQ Standard Rates and shall be in addition to the base quotation. No additional work shall be performed without the consent of the customer in writing.
7. Straight time hours are Monday-Friday from 8 a.m. to 4 p.m.; Overtime hours [time+1/2] are over 8 hours weekdays and Saturday; Sundays and Holidays are double time.

### Lab Pack Conditions (if applicable):

1. In the event that the scope of work changes from that specified above, out-of-scope work shall be at EQ Standard Rates and shall be in addition to the base quotation. No additional work shall be performed without the consent of the customer in writing.
2. Materials and supplies not contained in the base quotation, but required to perform the above services shall be charged at listed rates in the EQ Standard Rate sheet or at cost plus 15% if not listed.
3. Regular time hours are Monday-Friday from 8 a.m. to 4 p.m.; Overtime hours (time+1/2) are over 8 hours weekdays and Saturday; Double Time is assessed all Sunday and Holiday Hours.
4. This project was based on regular time hours.
5. This proposal does not include pricing for explosive, radioactive, shock sensitive, pyrophoric, medical, compressed gas cylinders, banned or DEA controlled wastes. Pricing for these materials will be quoted on a case-by-case basis.
6. Waste streams cannot contain any unidentified hazardous constituents.
7. Onsite delays, changes or inaccuracies in the inventory may result in additional charges.
8. All shipping containers must be D.O.T. approved.
9. Pricing is subject to approval by the TSDF.
10. Material Safety Data Sheets (MSDS) and or analytical may be required prior to disposal.
11. Pricing was based on the inventory provided by the customer/generator.



## STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Characterization Report, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

### Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Characterization Report (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

### Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

### Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Characterization Report containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Characterization Report, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Characterization Report.

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### Customer Warranty - Acceptable Wastes.

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If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

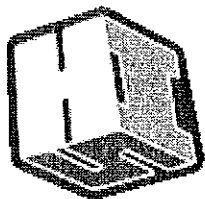
### Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

**EQ IS THE ANSWER        WWW.EQONLINE.COM**



# Former Wood Treating Facility Columbus, IN (Soil Borings & Monitoring Wells)



## HIS Constructors, Inc.

5150 East 65th Street, Suite B

Indianapolis, IN 46220-4817

Contact: Ken Polston

Phone: (317) 284-1195

Fax: (317) 284-1185

Quote To:

BCA Consultants

Name of Job:

Former Wood Treating Facility

Attn:

John Kilmer

Plans by:

Phone:

317-578-4233

Date of Plans:

Fax:

Revision Date:

Date of Bid:

January 2, 2014

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
10	HIS PERSONAL ONSITE	7.00	DAY	600.00	4,200.00
20	PER QUOTE FROM EARTH EXPLORATION DATED 12/27/2013	1.00	LS	19,653.50	19,653.50
30	DRUM DISPOSAL SOIL CUTTING (NON- HAZARDOUS SOLIDS)	1.00	EACH	232.00	232.00
40	DRUM DISPOSAL LIQUID DECO WATER (HAZARDOUS)	2.00	EACH	433.00	866.00
<b>GRAND TOTAL</b>					<b>\$24,951.50</b>

NOTES:

1. BCA will be billed actual invoices plus 15% for Earth Exploration and EQ.

We appreciate the opportunity to submit this proposal. If you have any questions or require further information, please call me at 317-284-1195.

Sincerely,

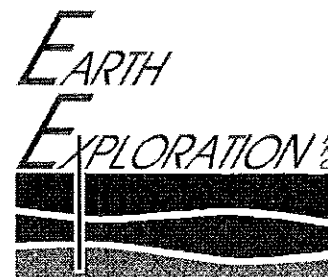
HIS CONSTRUCTORS, Inc.

Ken Polston

Senior Estimator / Project Manager

December 27, 2013

Mr. Ken Polston  
HIS Constructors, LLC  
5150 E. 65th Street, Suite B  
Indianapolis, IN 46220-4817



7770 West New York Street  
Indianapolis, IN 46214-2988  
317-273-1690 (FAX) 317-273-2250

2204 Yankee Street  
Niles, MI 49120  
269-262-4320 or 574-233-6820  
(FAX) 269-262-4479

Re: Environmental Soil Borings  
and Monitoring Wells  
Former Columbus Wood Treating  
Columbus, Indiana  
EEI Proposal No.: P1-13-466.3

Dear Mr. Polston:

We are pleased to submit our cost estimate for additional work at the referenced project. We understand that this work is planned to occur about one to two months after our work defined by the scope of services in EEI Proposal No. P1-13-466.2. This proposal is in response to your request in an electronic message on December 26, 2013. At this time, we understand the general scope of work will include the following:

1. In the first mobilization of this phase, six soil probes to a depth of about 55 ft each with continuous soil sampling (48-in. drives). Groundwater samples are planned to be collected by others at three of these locations via temporary PVC sample points installed by EEI. Others will remove the PVC and fill with bentonite supplied by us. The other three probes will be completed as 1-in. PVC piezometers with 10 ft of screen, sand surrounding the screen, a bentonite probe seal, cement-bentonite grout to near the surface and completed with an above-grade protective cover. The probes are anticipated to be located on soil and accessible by gravel paths;
2. In a second mobilization on this phase, one soil boring advanced with 4¼-in. I.D. hollow stem augers to a depth of 55 ft with no soil sampling. The boring is reported to be situated on soil and accessible by a gravel path. The soil boring will be completed as a 2-in. I.D. Schedule 40 PVC well with 10 ft of 10-slot screen (machine cut), sand to about 2 ft above the screen, a bentonite pellet seal, cement-bentonite grout to near the surface, an expandable locking cap and an above-ground well cover concreted in place. Others will develop the well; and
3. Drilling tools and augers will be decontaminated prior to mobilization, between borings and before demobilization, while the probe samplers will be washed with detergent (Liquinox or similar) and rinsed with tap water between samples. Auger cuttings from the borings will be spread out on site while decontamination water and well development water will be contained in 55-gal drums (DOT17H) to be left on-site for disposal by others.

Based on this information, we estimate the total cost to be on the order of \$17,090 as outlined in the attached Cost Estimate per Davis-Bacon Wage rates. The estimated total is based, in part, on the soil boring/well locations being accessible to our truck-mounted drilling equipment and the probe locations being accessible to our track-mounted probe equipment, no standby or special

*EARTH EXPLORATION* <sup>INC.</sup>

Mr. Ken Polston  
HIS Constructors, LLC  
Former Wood Treating Facility – Columbus, IN

December 27, 2013  
Page 2

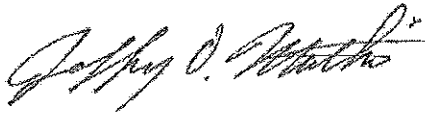
services time, a source of water available on the site and all on-site work being performed under Level D personnel protection guidelines. Please note that due to the volatility of material costs, we reserve the right to increase prices after 30 days from the date of this proposal.

We expect to complete the assignment in 6 days for the probing/abandonments and 1 day for the monitoring well using a two-person crew depending on the actual workscope and site, subsurface and weather conditions. Earth Exploration, Inc. will be required to contact Indiana 811 for public utility locates. Any private utilities, buried storage tanks or other subsurface appurtenances will be the responsibility of your company or a representative of the owner.

If you elect to utilize our services, please issue a purchase order referring to our proposal number. Thank you for your consideration.

Sincerely,

**EARTH EXPLORATION, INC.**



Jeffrey D. Mathis  
Exploratory Field Services Manager



Richard D. Olson, P.E.  
President

Attachment: Cost Estimate

*EARTH EXPLORATION* INC.

**COST ESTIMATE**  
**Test Borings and Monitoring Wells**  
Former Columbus Wood Treating  
Columbus, Indiana

Mobilization and demobilization	2 LS	\$400.00 / LS	\$800.00
Well abandonment	hr	\$182.00 / hr	
Direct push sampling	54 hr	\$182.00 / hr	\$9,828.00
Direct push supplies			
Macro liners (48 in.)	48 ea	\$3.00 / ea	\$144.00
DT-21/22 liners (48-in., with catchers)	36 ea	\$5.00 / ea	\$180.00
Disposabledrive point (Macro)	3 ea	\$10.00 / ea	\$30.00
Drilling with 4¼-inch I.D. hollow stem augers			
0 - 30 ft deep	30 ft	\$11.20 / ft	\$336.00
30 - 60 ft deep	25 ft	\$12.60 / ft	\$315.00
Split spoon samples	ea	\$16.80 / ea	
Pipe material - 1-in. I.D. Schedule 40 PVC			
Riser (5-ft section)	6 ea	\$8.00 / ea	\$48.00
Riser (10-ft section)	32 ea	\$12.00 / ea	\$384.00
Screen (5-ft section)	ea	\$13.00 / ea	
Screen (10-ft section)	6 ea	\$18.00 / ea	\$108.00
End plug	6 ea	\$5.00 / ea	\$30.00
Slip cap	6 ea	\$1.00 / ea	\$6.00
Pipe material - 2-in. I.D. Schedule 40 PVC			
Riser	50 ft	\$2.50 / ft	\$125.00
Screen	10 ft	\$4.00 / ft	\$40.00
End plugs	1 ea	\$8.00 / ea	\$8.00
Expanding caps	1 ea	\$21.00 / ea	\$21.00
Miscellaneous supplies			
Bentonite chips or powder	7 bag	\$11.00 / bag	\$77.00
Bentonite grout	bag	\$20.00 / bag	
Bentonite pellets	1 bckt	\$60.00 / bckt	\$60.00
Concrete (regular)	9 bag	\$6.00 / bag	\$54.00
Cement (47 lb bag)	14 bag	\$7.00 / bag	\$98.00
Sand (50 lb bag)	13 bag	\$8.00 / bag	\$104.00
Protective covers (above-ground)	4 ea	\$95.00 / ea	\$380.00
Auger knockout plugs (4¼ in.)	1 ea	\$21.00 / ea	\$21.00
55-gallon steel drums	4 ea	\$40.00 / ea	\$160.00
Labor to install well materials	13 hr	\$182.00 / hr	\$2,366.00
Water hauling and auger washout	hr	\$182.00 / hr	
Decontamination and clean-up	3 hr	\$182.00 / hr	\$546.00
Well development	hr	\$182.00 / hr	
Other equipment, supplies and services			
Steam cleaner	1 day	\$50.00 / day	\$50.00
Standby or special services time	hr	\$182.00 / hr	
All-terrain mounted drilling equipment	day	\$100.00 / day	
Miscellaneous out-of-pocket expenses		cost + 10 %	
Debris removal	ea	\$100.00 / ea	
Well abandonment records	LS	\$90.00 / LS	
Submersible development pump (battery powered)	day	\$30.00 / day	
Per diem	day	\$60.00 / day	
Overnight living	night	\$150.00 / night	
Support truck	7 day	\$100.00 / day	\$700.00
Utility locate	1 LS	\$75.00 / LS	\$75.00

Estimated Total                    \$17,094.00



# THE ENVIRONMENTAL QUALITY COMPANY

36255 MICHIGAN AVENUE • WAYNE, MICHIGAN 48184 • tel 800-592-5489 • fax 800-592-5329

## QUOTATION

DATE: SEPTEMBER 25, 2013

CUSTOMER: HIS

QUOTE No: 09252013KL

CONTACT: KEN POLSTON

PHONE: (317) 284-1195

FAX: (317) 284-1185

EMAIL: KEN.POLSTON@HISCONSTRUCTORS.COM

DEAR KEN,

EQ - The Environmental Quality Company is pleased to provide you with the following quotation for environmental management services. This pricing is contingent upon EQ credit approval as well as approval from the disposal facility (if applicable). Payment terms are net 30 days and this quotation is valid for 30 days.

### DUNKIRK, NY – TRANSPORTATION AND DISPOSAL RATE

WOOD TREATING LIQUIDS (HAZARDOUS)	\$202.65/DM55
NON-HAZARDOUS SOLIDS	\$42.00/STOP
LTL TRANSPORTATION	\$210.00/STOP + \$23/DRUM
THE PER DRUM FEE WILL ONLY APPLY TO THE HAZARDOUS DRUMS.	

#### ADDITIONAL COSTS:

- AN INSURANCE SURCHARGE OF 1.5% WILL APPLY TO ALL INVOICES.
- AN ENERGY SURCHARGE APPLIES TO DISPOSAL. THIS SURCHARGE IS ADJUSTED QUARTERLY AND IS CURRENTLY 7.0%.
- A FUEL SURCHARGE (BASED UPON THE WEEKLY NATIONAL AVERAGE FUEL PRICES) WILL APPLY TO ALL DIESEL-RELATED EQUIPMENT CHARGES.
- FOR FURTHER CONTRACTUAL INFORMATION, REFER TO THE ATTACHED EQ STANDARD TERMS AND CONDITIONS.

Thank you for this opportunity - EQ appreciates your interest in our services. I believe this quotation meets your specifications but please contact me at (734) 329-8022 if you have any questions. We are prepared to proceed with the above described work upon issuance of your purchase order or by your signature on this quotation. Please return by fax or email to the location below.

*Amanda Kalinka, CHMM*

Amanda Kalinka, CHMM  
Customer Service Specialist  
Phone: (734) 329-8022 Fax: (734) 329-8142  
Amanda.Kalinka@EQOnline.com

#### ACCEPTANCE OF QUOTATION:

By: \_\_\_\_\_  
Signature and Title-Authorized Representative

Date: \_\_\_\_\_

**EQ IS THE ANSWER ^ WWW.EQONLINE.COM**

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the correct version.

SLS-FM-001-COR

1/8/08

## EQ STANDARD TERMS AND CONDITIONS

### Waste Disposal Conditions (if applicable):

1. Prices and services are contingent upon approval from the disposal facility. Approval of this material will be based upon waste analysis; a generator signed waste profile and an evaluation of a representative sample (if required) for a treatability study.
2. Quoted bulk disposal charges for solid materials will be billed by the cubic yard if the waste density is less than 2,000 pounds per cubic yard. If waste density is greater than 2,000 pounds per cubic yard, then disposal charges will be billed by the ton.
3. Surcharges from disposal facilities based on "as received" waste characteristics are in addition to quoted rates.
4. Improperly classified and/or rejected loads will be returned to the customer at their expense.
5. The Michigan DEQ will assess a manifest fee for all hazardous waste manifests used in the State of Michigan.

### Industrial Services and Transportation Conditions (if applicable):

1. Washout or clean-out charges for residuals shall be at EQ cost+15% or at EQ Standard Rates unless otherwise specified.
2. A four (4) hour minimum and portal to portal charges apply to all equipment and personnel. Loading, unloading and cleaning of project specific materials and/or supplies, together with all regulatory preparation time shall be included in portal to portal charges.
3. For equipment, non-reusable materials, supplies and personnel not detailed in this quote but which become necessary to perform the work, EQ Standard Rates will be charged or cost plus 15% if not listed.
4. If disposal costs are not included in this quotation, the customer shall be responsible for securing disposal approvals and preparing all manifests and paperwork unless otherwise stated. These services, if performed and otherwise not quoted by EQ, shall be charged at \$40/hour.
5. This quote includes up to 1-hour loading/waiting time and up to 2 hours disposal time without extra cost. The customer shall be responsible for all waiting time of EQ outside the immediate control of EQ (i.e. no access to the work area/site, mandatory workplace breaks etc.) or any other influences outside the control of EQ. All loading or waiting time at the customer location beyond 1 hour and/or all disposal site time beyond 2 hours shall be surcharged at a rate of \$95/hour in 1/4 hour increments. Such time shall be in addition to the base quotation and extend the fixed sum price.
6. In the event that the scope of work changes from that specified in this quote, out-of-scope work shall be at EQ Standard Rates and shall be in addition to the base quotation. No additional work shall be performed without the consent of the customer in writing.
7. Straight time hours are Monday-Friday from 8 a.m. to 4 p.m.; Overtime hours [time+1/2] are over 8 hours weekdays and Saturday; Sundays and Holidays are double time.

### Lab Pack Conditions (if applicable):

1. In the event that the scope of work changes from that specified above, out-of-scope work shall be at EQ Standard Rates and shall be in addition to the base quotation. No additional work shall be performed without the consent of the customer in writing.
2. Materials and supplies not contained in the base quotation, but required to perform the above services shall be charged at listed rates in the EQ Standard Rate sheet or at cost plus 15% if not listed.
3. Regular time hours are Monday-Friday from 8 a.m. to 4 p.m.; Overtime hours (time+1/2) are over 8 hours weekdays and Saturday; Double Time is assessed all Sunday and Holiday Hours.
4. This project was based on regular time hours.
5. This proposal does not include pricing for explosive, radioactive, shock sensitive, pyrophoric, medical, compressed gas cylinders, banned or DEA controlled wastes. Pricing for these materials will be quoted on a case-by-case basis.
6. Waste streams cannot contain any unidentified hazardous constituents.
7. Onsite delays, changes or inaccuracies in the inventory may result in additional charges.
8. All shipping containers must be D.O.T. approved.
9. Pricing is subject to approval by the TSDF.
10. Material Safety Data Sheets (MSDS) and or analytical may be required prior to disposal.
11. Pricing was based on the inventory provided by the customer/generator.



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### Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

### Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Characterization Report, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

### Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statutes, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

### Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

### Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

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SLS-FM-001-COR

1/8/08

Third Quarter 2018 Groundwater  
Monitoring Report  
Former Columbus Wood Treating  
53 Lafayette Avenue  
Columbus, IN 47201

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AUGUST MACK PROJECT #: JS0449.350

PREPARED FOR:

Ms. Dawn Andershock  
Project Manager  
Indiana Finance Authority  
100 North Senate Avenue, Suite 1275  
Indianapolis, IN

BY:

August Mack Environmental, Inc.  
1302 N. Meridian Street  
Suite 300  
Indianapolis, IN 46202

ON BEHALF OF:

Ms. Heather Pope  
City of Columbus  
Redevelopment Commission  
123 Washington Street  
Columbus, IN 47201

ISSUE DATE:  
November 28, 2018







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November 28, 2018

Ms. Heather Pope  
City of Columbus, Indiana  
Columbus Redevelopment Commission  
City Hall  
123 Washington Street  
Columbus, IN 47201

**Re: Third Quarter 2018 Groundwater Monitoring Report  
Former Columbus Wood Treating  
53 Lafayette Avenue  
Columbus, Indiana 47201  
Brownfields Site Number 4100901  
August Mack Project Number JS0449.350**

Dear Ms. Pope:

August Mack Environmental, Inc. (August Mack), on behalf of the City of Columbus Redevelopment Commission, is submitting this Third Quarter 2018 Quarterly Groundwater Monitoring Report (QMR) for the above-reference property. This report includes a summary of Site background information and historic investigation activities, a description of field activities, sampling procedures, laboratory analytical results, and conclusions regarding the sampling results.

### **BACKGROUND INFORMATION**

The Former Columbus Wood Treating Plant is located at 53 Lafayette Avenue in Columbus, Indiana (Site). A Site plan has been provided as **Figure 1**. The Site is currently owned by the City of Columbus Redevelopment Commission and encompasses approximately 1.24 acres. Historic Site operations included coal and coke processing from approximately 1885 to 1903. Wood treatment operations, which included the use of creosote for preservation of wood products, began at the Site in the 1920's. The Site ceased treatment operations in 1970 and all Site buildings were destroyed in a fire in 1971. Following the fire, all remnants of the former Site buildings were removed and the Site was covered with foundry sand. No structures currently exist on-Site.



## **HISTORICAL INVESTIGATION ACTIVITIES**

Environmental investigations have been conducted intermittently at the Site from 1999 to 2014. A total of 14 monitoring wells (MW-1 through MW-14) were installed by Haley and Aldrich, Inc. and Bruce Carter Associates, LLC (BCA) between 2008 and 2010. Initial investigations revealed evidence of soil and groundwater impacts associated with historic Site operations. Potential contaminants (PC) identified at the Site include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), and metals.

BCA submitted a *Remediation Work Plan* (RWP) to the Indiana Brownfields Program (IBP) on March 15, 2012, to address soil and groundwater impacts exceeding applicable closure levels. Remediation activities completed at the Site included:

- Removal and disposal of shallow (less than 10 feet below surface grade (ft bg)) impacted soils;
- In-situ soil solidification/stabilization of deep impacted unsaturated soils; and,
- The removal and disposal of an Underground Storage Tank (UST) and associated contents.

Following completion of remedial activities identified above, the treatment area was backfilled with clean overburden soil, covered with an impermeable geomembrane, and capped with clean overburden, topsoil, and vegetation.

Per the *RWP Addendum 2*, the following investigation activities were completed to further delineate impacted soil and groundwater impacts related to the Site:

- Installation of 20 groundwater monitoring wells;
- Advancement of five (5) temporary groundwater monitoring points; and,
- The completion of multiple soil borings.

The additional delineation effort was completed both on- and off-Site between 2012 and 2014. Post-remediation groundwater sampling in 2013 indicated off-Site groundwater impacts were delineated in each cardinal direction with the exception of the west. Additionally, measurable dense non-aqueous phase liquid (DNAPL) was observed in wells across the Site and off-Site. With IBP approval, four (4) up-gradient monitoring wells were abandoned (MW-1, MW-3, MW-5, and MW-8) during this time period.

To evaluate the connectivity of the Site's aquifer to the Flatrock River, August Mack installed four (4) piezometers along the River bank in First Quarter 2018. The piezometers will be gauged during the routine quarterly sampling events and the information will be evaluated along with river gauge information from the nearest United States Geological Services (USGS) gauging station, located between the State Road 46 bridges. Results from this assessment will be submitted as part of the *Lines of Evidence* in the Request for Closure Report, expected to be submitted to Indiana Brownfields during the First Quarter of 2019.

## **GROUNDWATER MONITORING ACTIVITIES**

### **Groundwater Gauging**

August Mack mobilized to the Site on September 25, 2018 to perform Third Quarter 2018 groundwater sampling activities. Prior to collecting groundwater samples, depth-to-water measurements were collected from the entire monitoring well network<sup>1</sup>, three (3) monitoring points (MP-1, MP-2, and MP-3), and four (4) piezometers (PZ-1 through PZ-4) using an oil-water interface (OWI) meter. The depth to water measurements, along with top of casing elevation data, were used to create groundwater potentiometric surface maps, provided as **Figure 2** and **Figure 3** for the shallow and deep monitoring wells, respectively. Based on the data collected during historical sampling events, as well as the Third Quarter 2018 sampling events, the groundwater flow direction at the Site is generally towards the west/southwest. The specific field procedures used for measuring the groundwater elevations are included in **Appendix A**. Monitoring well data, including depth-to-water measurements are presented in **Table 1**. A summary of current and historic well gauging data is presented on **Table 2**.

### **Free Product Evaluation**

In addition to collecting depth to water measurements, the OWI meter was used to check for the presence of free product in each monitoring well, monitoring point, and piezometer. DNAPL was encountered in six (6) monitoring wells (MW-2, MW-13D, MW-15, MW-16, MW-17D, and MW-24D). Evidence of DNAPL was also observed on the OWI sensor during the gauging of MP-1. The specific field procedures used to measure for the presence of free product are included as **Appendix A**. Monitoring well information, including total free product thickness data, collected during Third Quarter 2018 are presented on **Table 1**, and depicted on **Figure 4A** and **Figure 5A**. A summary of historic free product thickness is presented on **Table 2**.

### **Groundwater Sampling**

During Third Quarter 2018 sampling, groundwater samples were collected from 18<sup>2</sup> of the 31<sup>3</sup> existing on-Site and off-Site monitoring wells. Six (6) monitoring wells (MW-2, MW-13D, MW-15, MW-16, MW-17D, and MW-24D) were not sampled due to the presence of free product, while one (1) monitoring well (MW-19D) was bent and severely damaged, preventing sampling. Monitoring wells were sampled in general accordance with United States Environmental Protection Agency (U.S. EPA) low-flow sampling procedures. A summary of field procedures is included as **Appendix A**. Groundwater sampling/purge records are included as **Appendix B**.

All groundwater samples were placed directly into laboratory-supplied sample containers with appropriate preservatives, labeled, placed on ice and submitted to Pace

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<sup>1</sup> Due to well casing damage, MW-19D was not gauged during the Third Quarter 2018 sampling event.

<sup>2</sup> Based on discussions with Brownfields representatives during conference call on March 29, 2018.

<sup>3</sup> After the discovery of MW-28D in March 2017, the size of the active monitoring well network was increased from 30 to 31.

Analytical Services, LLC (Pace) in Indianapolis, Indiana along with complete chain-of-custody documentation for analysis of the following constituents:

- VOCs using U.S. EPA Method SW-846-8260;
- SVOCs using U.S. EPA Method SW-846-8270;
- PAHs using U.S. EPA Method SW-846-8270 SIM<sup>4</sup>; and,
- Hexavalent Chromium U.S. EPA Method SW-846-7199

In addition, groundwater samples collected from select monitoring wells were analyzed for the following constituents:

- Pentachlorophenol (PCP) using U.S. EPA Method SW-846-8151; and,
- Total and Dissolved Arsenic using U.S. EPA Method SW-846-6010.

For quality assurance/quality control (QA/QC) purposes, one (1) duplicate sample (MW-DUP-1 from MW-26D) and one (1) matrix spike/matrix spike duplicate (MS/MSD) sample was collected during the quarterly sampling event. Analytical results from the MW-26D duplicate and parent samples demonstrated poor precision for the SVOC Scan and PAH SIM analyses. The parent sample results are congruous with historical results. Corrective actions did not readily indicate a field or laboratory error. The duplicate sample results for these analyte suites will be considered unusable and will be presented for reference only. Additionally, one (1) equipment blank (EB-1) and three (3) trip blanks (TB-1 through TB-3) were collected during Third Quarter 2018.

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<sup>4</sup> Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene are reported exclusively from U.S. EPA 8270 SIM extractable analysis.

**Groundwater Analytical Results**

Laboratory analytical results were compared to the IDEM Remediation Closure Guide (RCG) 2018 Screening Levels (SLs). The following PCs were reported above their respective IDEM RCG 2018 SLs during the Third Quarter 2018 (specific exceedances in associated wells are presented on **Table 3**):

**VOCs:**

Benzene

**SVOCs:**

Dibenzofuran

Pentachlorophenol  
(as pesticide via 8151)**PAHs:**Benzo(a)-anthracene  
1-Methylnaphthalene  
2-Methylnaphthalene  
Naphthalene**Metals:**Arsenic (Total &  
Dissolved)  
Hexavalent  
Chromium


No other PC concentrations were reported above their respective IDEM RCG 2018 SLs<sup>5</sup>. A summary of groundwater analytical results is presented on **Table 3** and are depicted on **Figure 4B** through **Figure 4D**, **Figure 5B** through **Figure 5D**, and **Figure 6A** through **Figure 6C**. Copies of the laboratory analytical reports and associated chain-of-custody documentations are included in **Appendix C**.

### SUMMARY AND CONCLUSIONS

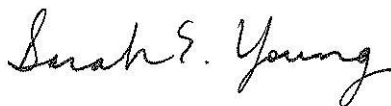
August Mack has completed the Third Quarter 2018 groundwater sampling event at the Site. Based on the laboratory analytical results, PC concentrations above IDEM RCG 2018 SLs are present in shallow and deep monitoring wells and extend off-Site to the west. In addition, DNAPL was identified in six (6) monitoring wells during this sampling event and one (1) monitoring point near the centerline of the dissolved groundwater plume.

August Mack will continue quarterly groundwater monitoring activities at the Site during the Fourth Quarter of 2018. The Fourth Quarter 2018 groundwater monitoring is scheduled for December 2018 and a quarterly monitoring report will be submitted to the IBP, along with a Request for Closure. Please feel free to contact us if you have any questions or comments, or require additional information regarding this project or the project site.

Sincerely,



Pilar E. Cuadra, LPG  
Project Manager



Sarah E. Young, CHMM  
Senior Manager

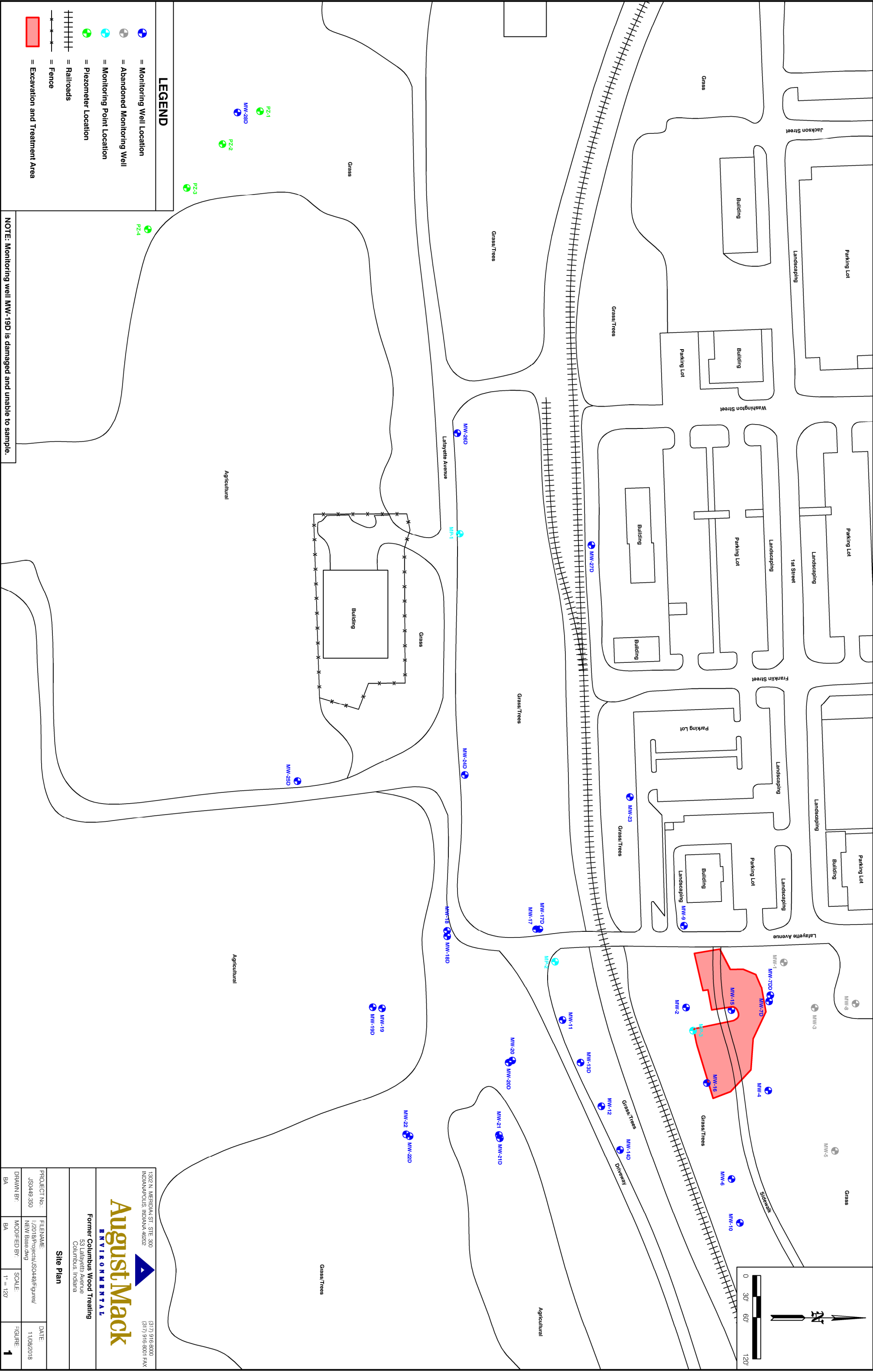
Attachments

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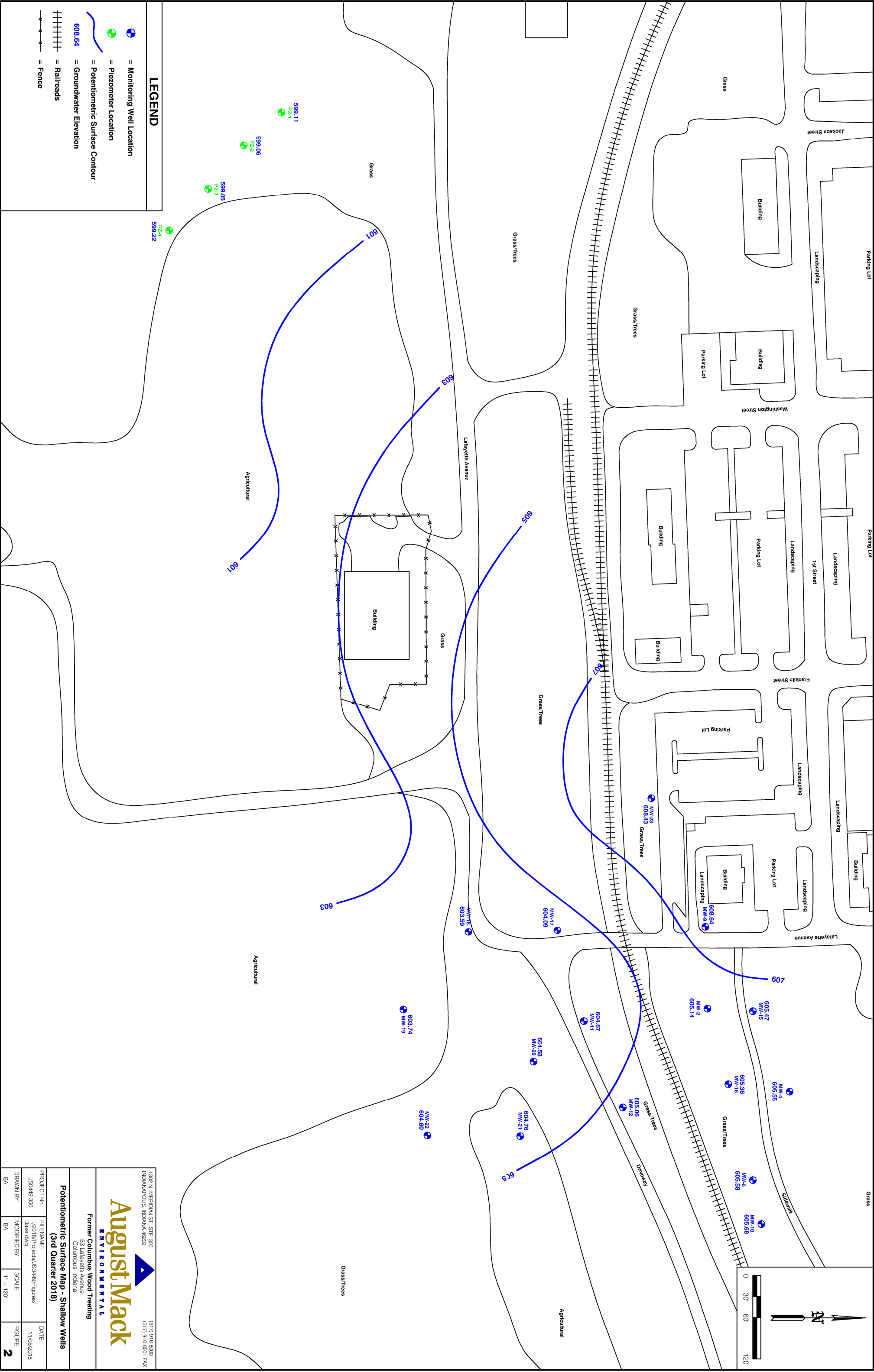
<sup>5</sup> Laboratory reporting limits for several constituents were above their respective IDEM RCG 2018 SLs due to dilution and/or analytical method. In addition, several analyzed constituents do not have established Default Closure Levels.

## FIGURES







- Figure 1:** Site Plan
- Figure 2:** Potentiometric Surface Map – Shallow Wells (Third Quarter 2018)
- Figure 3:** Potentiometric Surface Map – Deep Wells (Third Quarter 2018)
- Figure 4A:** DNAPL Extent - Shallow Wells
- Figure 4B:** SemiVolatile Organic Compounds Isoconcentration Map - Shallow Wells (Third Quarter 2018)
- Figure 4C:** Dissolved Metals Isoconcentration Map – Shallow Wells (Third Quarter 2018)
- Figure 4D:** Hexavalent Chromium Isoconcentration Map - Shallow Wells (Third Quarter 2018)
- Figure 5A:** DNAPL Extent - Deep Wells
- Figure 5B:** Volatile Organic Compounds Isoconcentration Map - Deep Wells (Third Quarter 2018)
- Figure 5C:** SemiVolatile Organic Compounds Isoconcentration Map - Deep Wells (Third Quarter 2018)
- Figure 5D:** Dissolved Metals Isoconcentration Map – Deep Wells (Third Quarter 2018)
- Figure 6A:** Groundwater Analytical Results Map (Third Quarter 2018 - VOCs)
- Figure 6B:** Groundwater Analytical Results Map (Third Quarter 2018 - SVOCs)
- Figure 6C:** Groundwater Analytical Results Map (Third Quarter 2018 – Metals)








LEGEND

-  = Monitoring Well Location
-  = Piezometer Location
-  = Potentiometric Surface Contour
-  = Groundwater Elevation
-  = Railroads
-  = Fence

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Former Columbus Wood Treating  
53 Lafayette Avenue  
Columbus, Indiana

Potentiometric Surface Map - Shallow Wells  
(3rd Quarter 2018)

PROJECT No.:  
JS0449.350

FILENAME:  
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Base.dwg

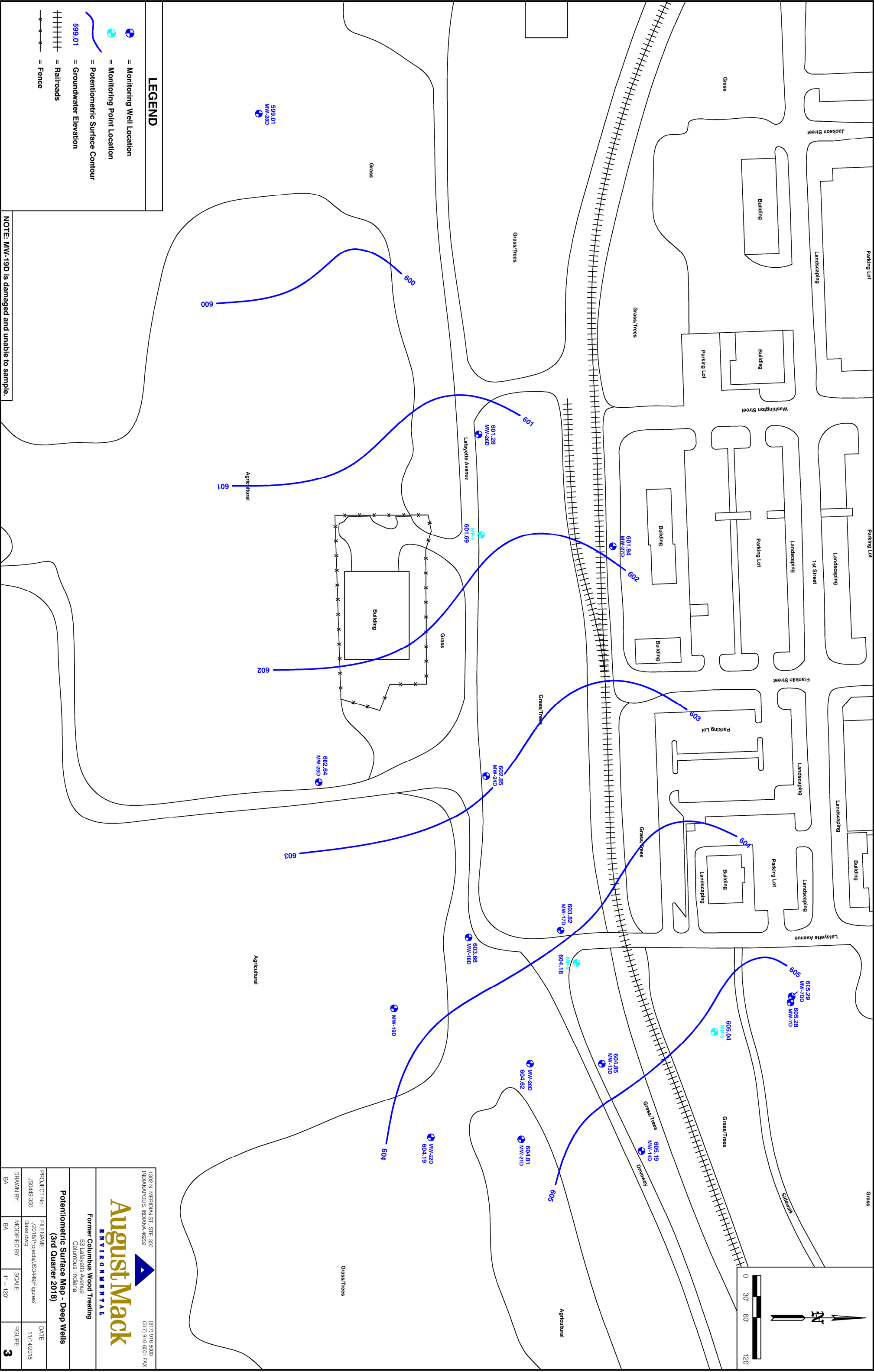
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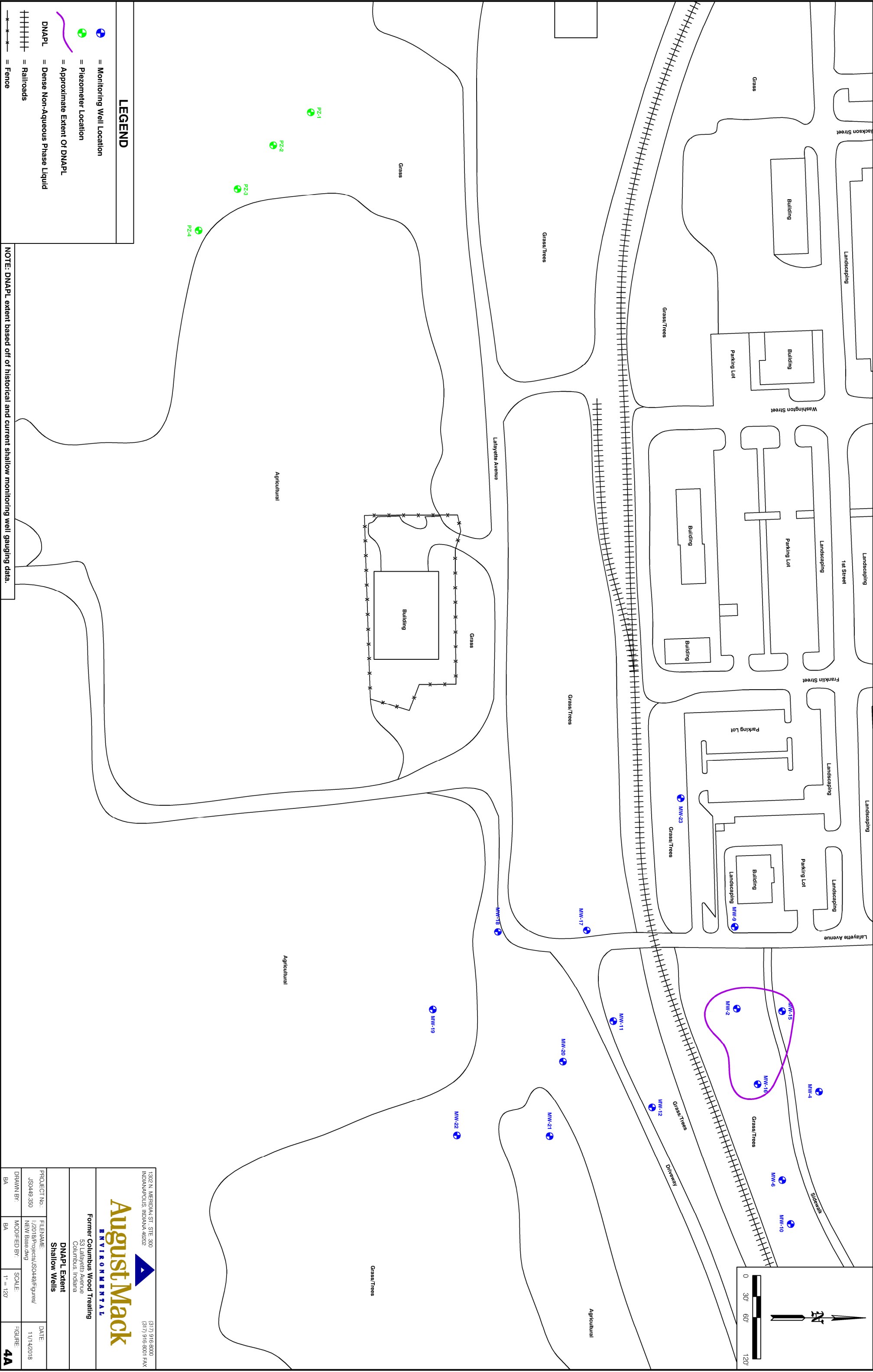
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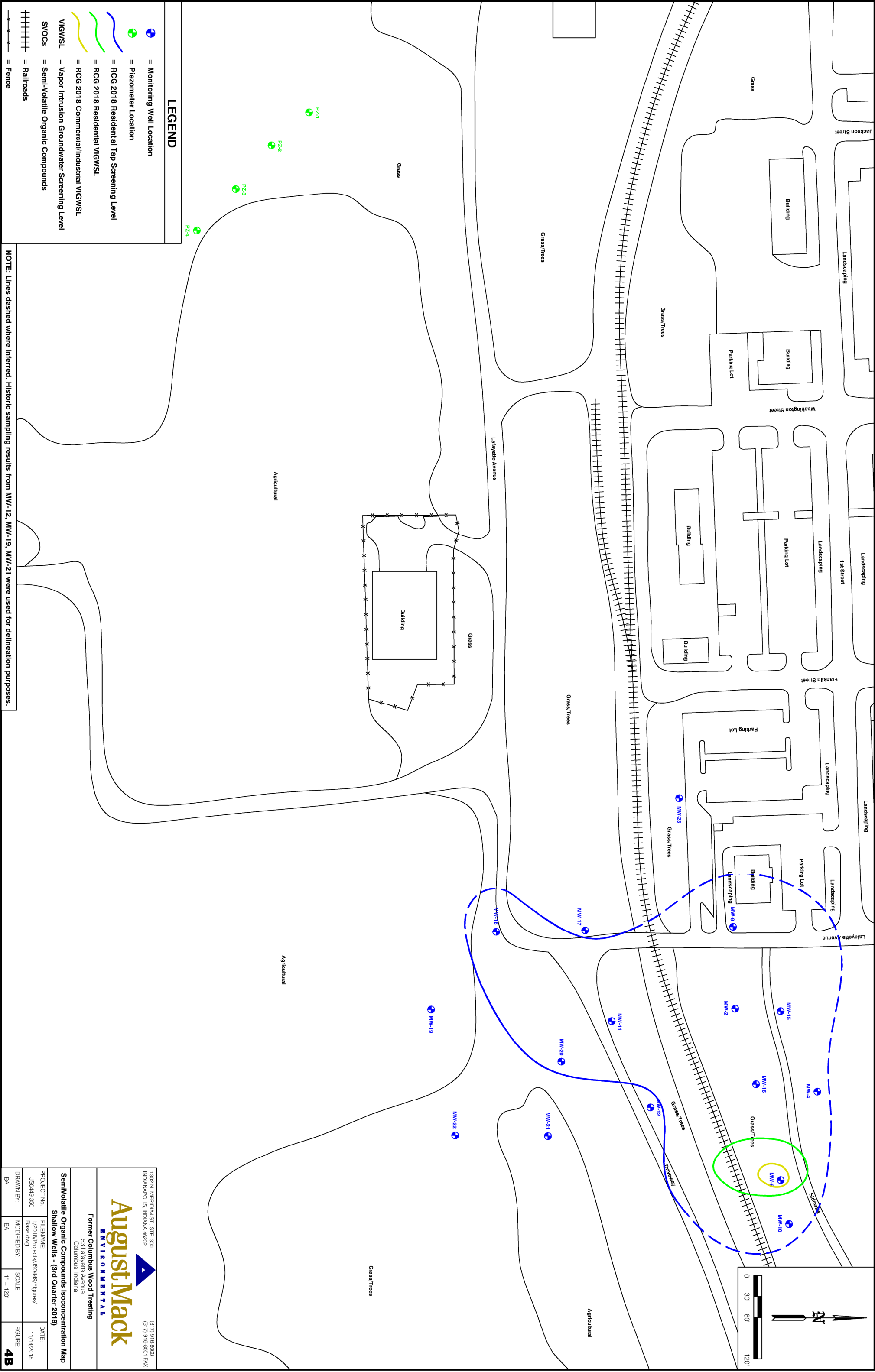
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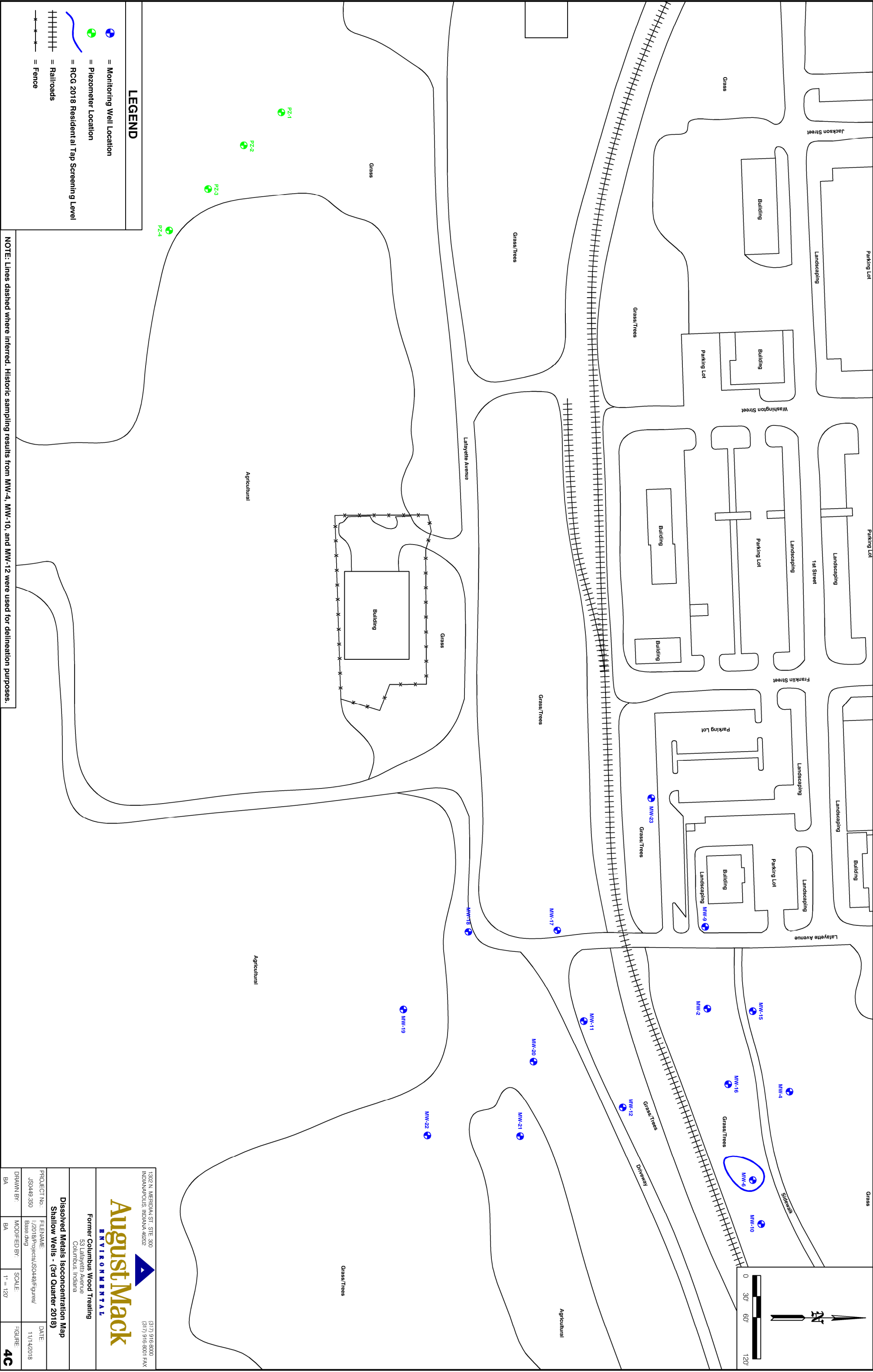
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1" = 120'

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**2**

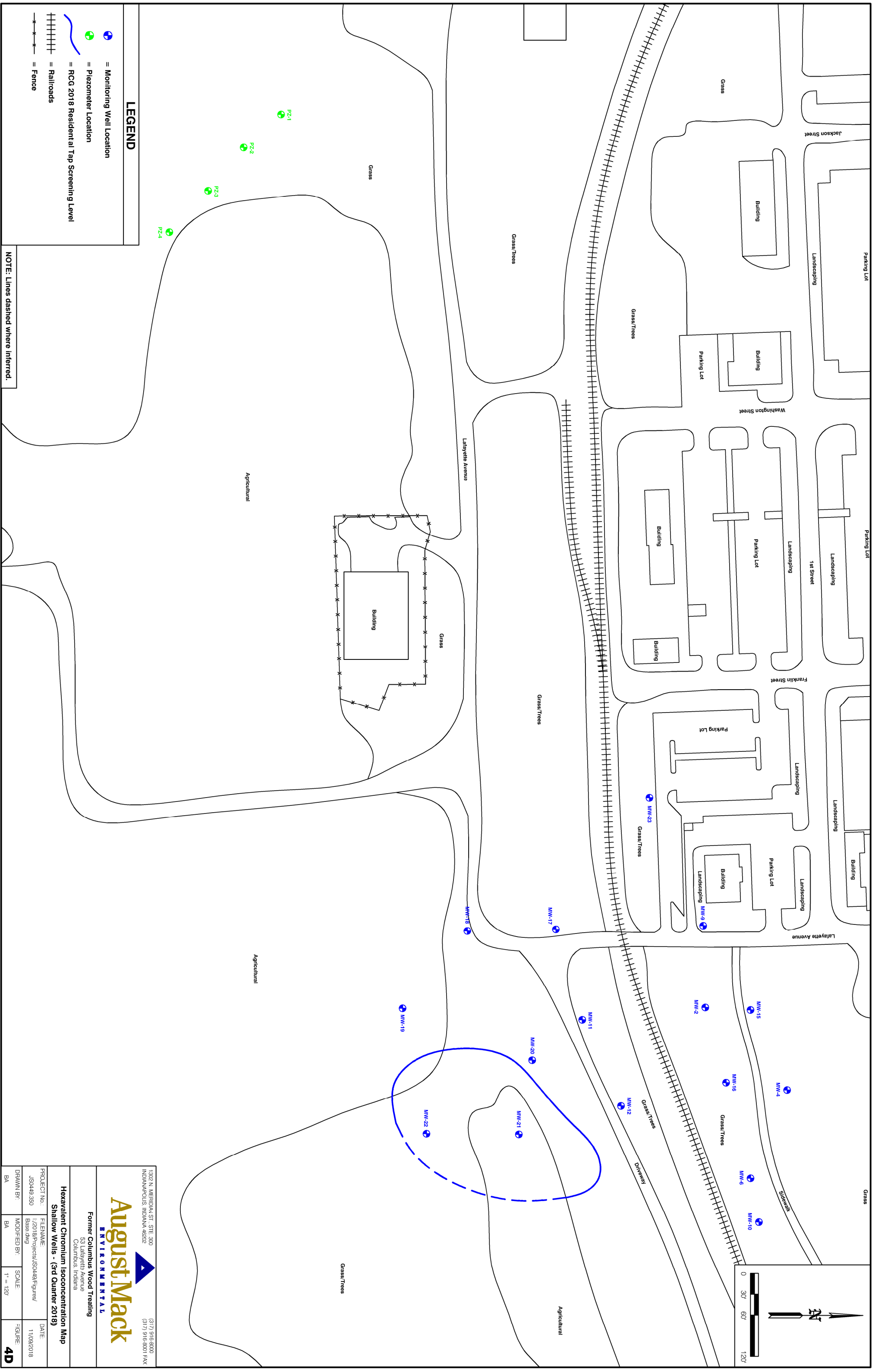


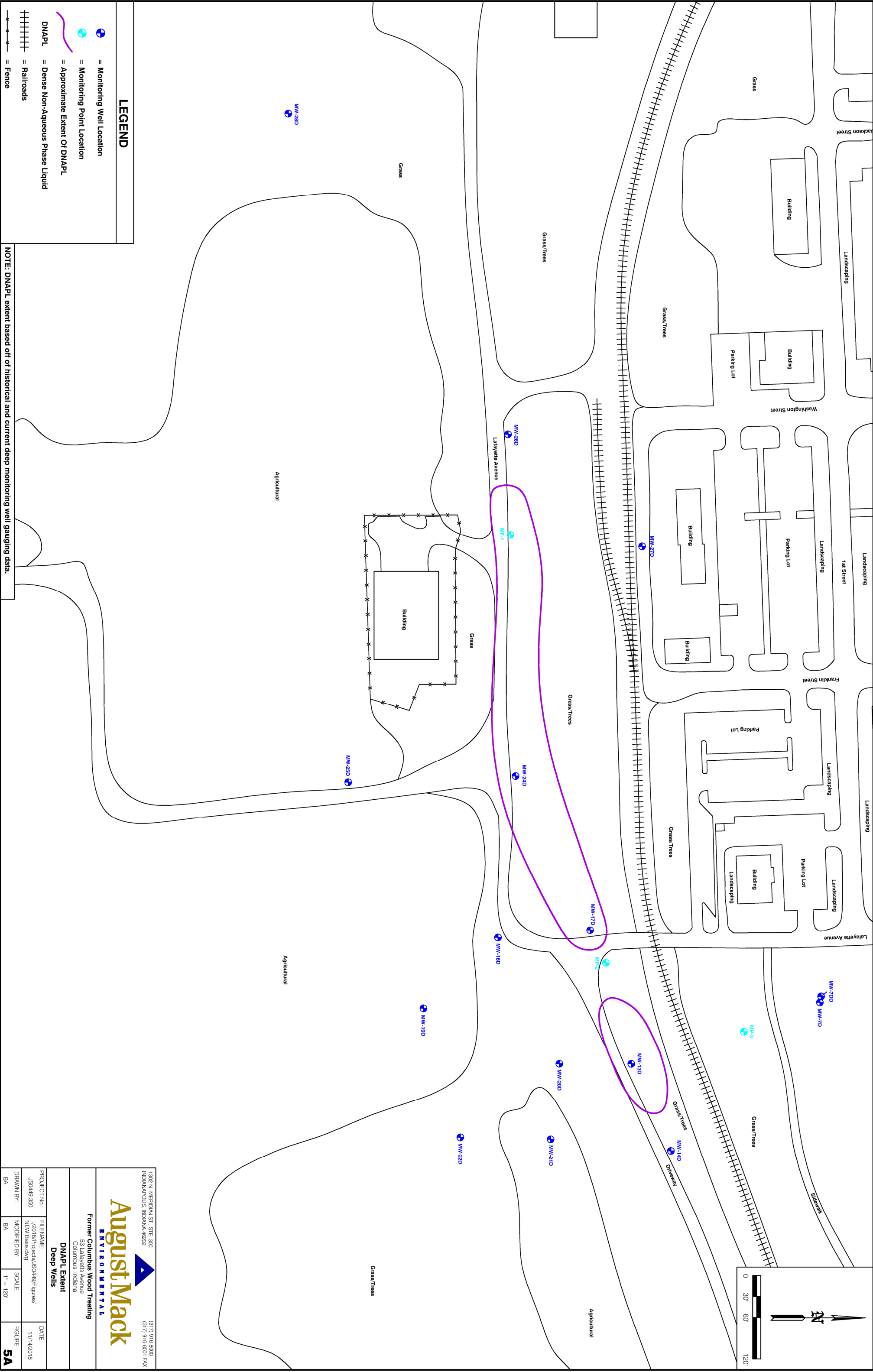


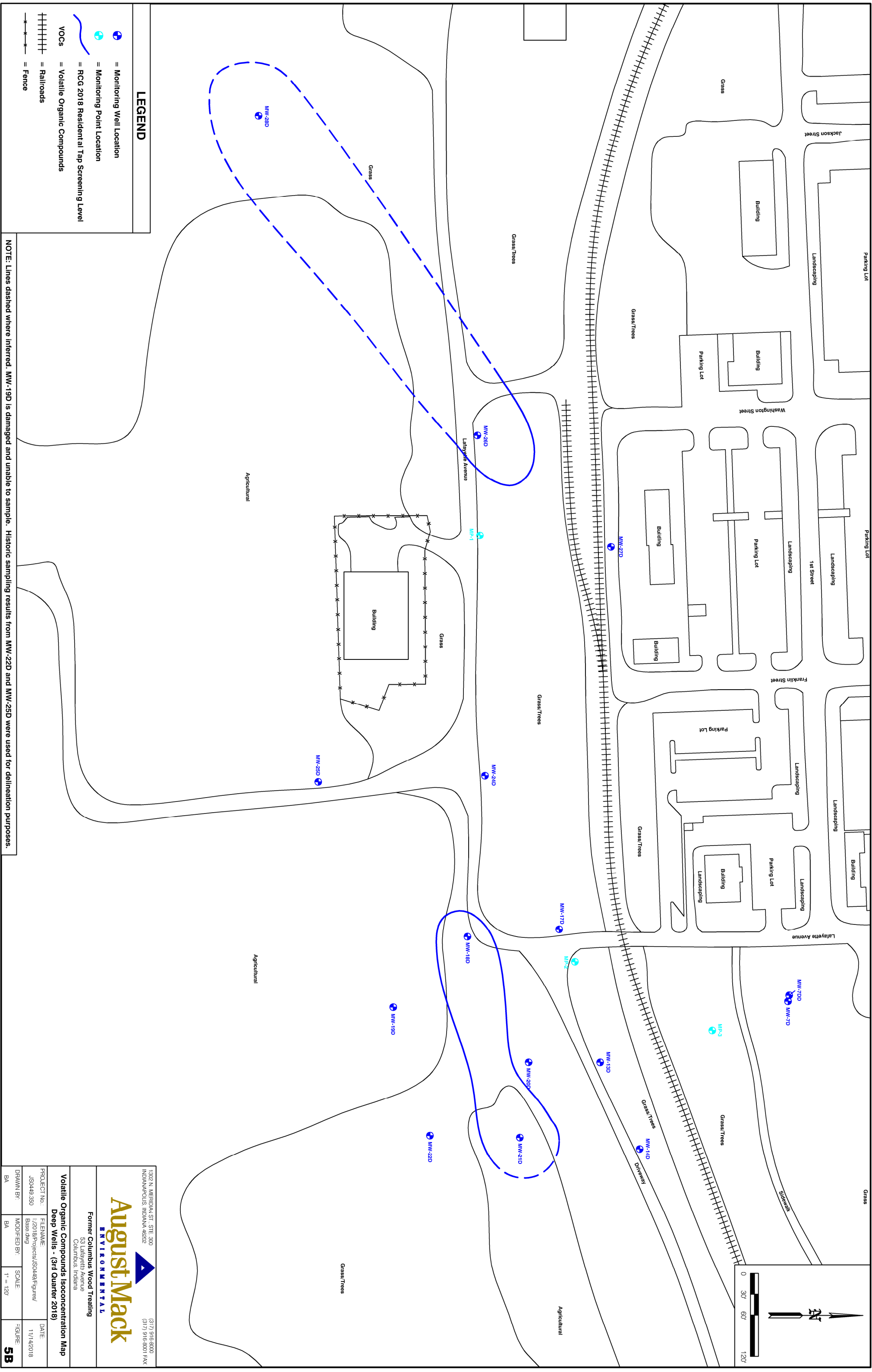




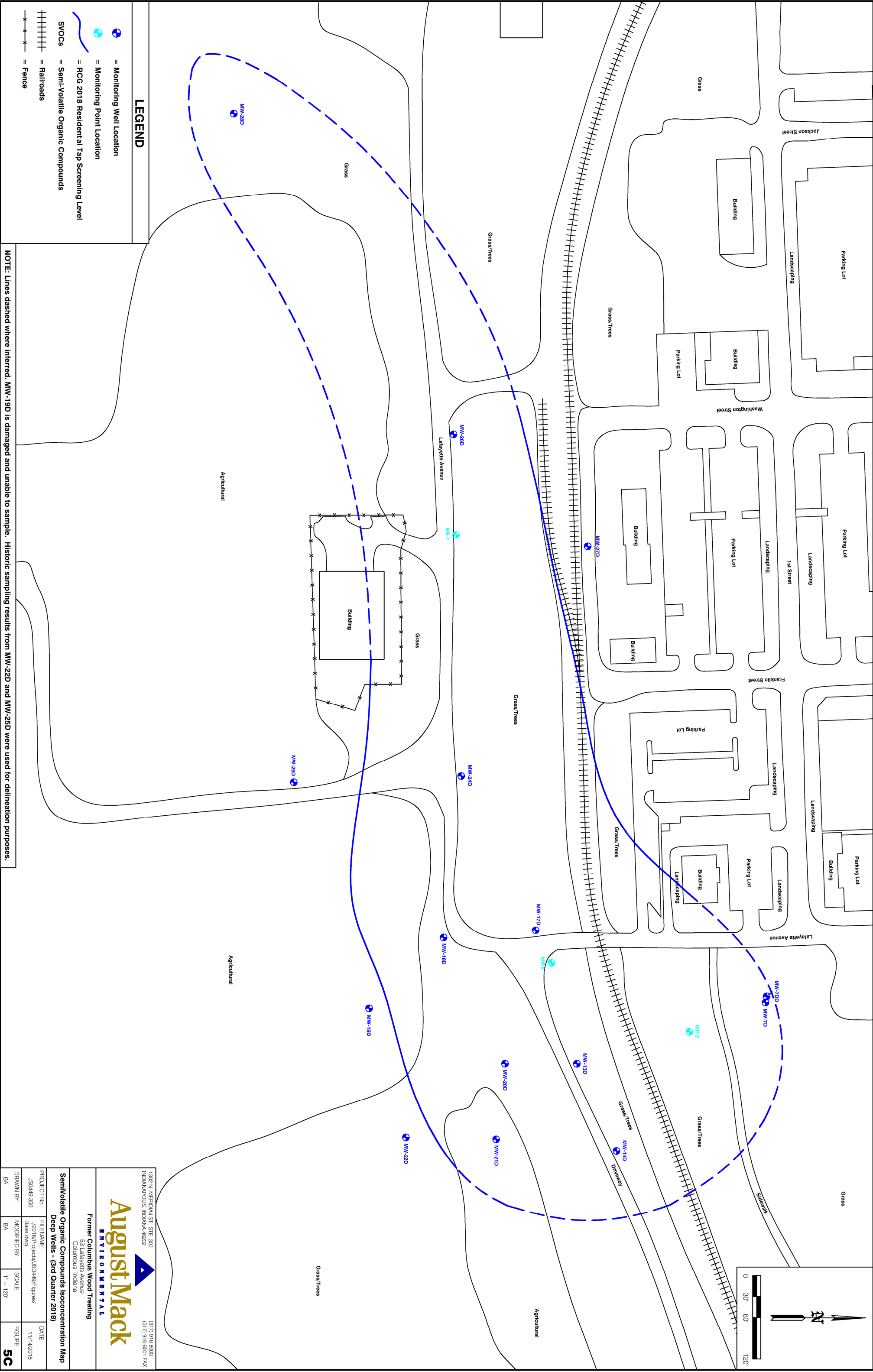


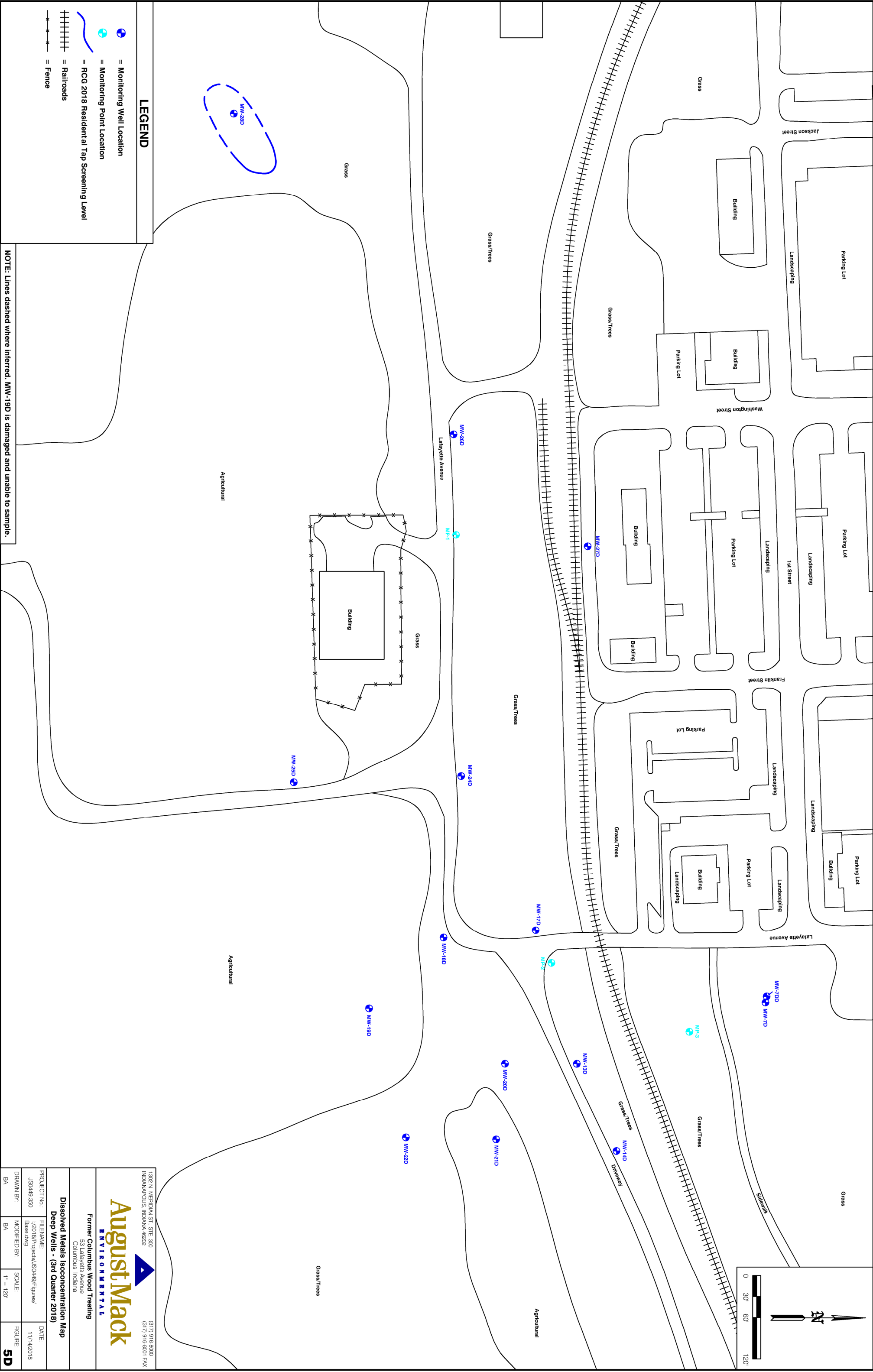
















Potential Contaminants	2018 IDEM RCG RESIDENTIAL TAP SLs (u)	2018 IDEM RCG RESIDENTIAL VICWSLs (*)	2018 IDEM RCG COM/IND VICWSLs (**)
Benzene	5.0	28	120
1,2,4-TMB	56	NE	NE
1,3,5-TMB	60	NE	NE
Benzol(a)Anthracene	0.3	NE	NE
Benzol(b)Fluoranthene	0.2	NE	NE
Benzol(a)Pyrene	2.5	NE	NE
Benzofluoranthen	7.9	NE	NE
1-MN	11	NE	NE
2-MN	36	NE	NE
Naphthalene	1.7	110	460
Pentachlorophenol	1.0	NE	NE
Phenanthrene	NE	NE	NE
Ascent	10	NE	NE
Ascent, Dissolved	10	NE	NE
Hexavalent Chromium	0.35	NE	NE

**Abbreviations and Notes:**  
All results reported in micrograms per liter (ug/L).  
IDEM = Indiana Department of Environmental Management  
RCG = Remediation Closure Guide; NE = Not Established; SL = Screening Level; NA = Not Analyzed  
E = Reporting limit (RL) exceeds closure level due to dilution and/or method limitations.  
COM/IND/VICWSLs = (Commercial/Industrial) Vapor Intrusion Ground Water Screening Levels  
VOCs = Volatile Organic Compounds; SVOCs = Semi-volatile Organic Compounds; ft= feet  
< RCGSLs = Constituent concentrations reported below their respective RCG SLs or as below laboratory FLs.  
Groundwater samples not collected from MW-2, 13D, 15, 16, 17D, or 24D due to free phase product encountered.  
\* = Result exceeds 2018 IDEM RCG RESIDENTIAL TAP SLs  
\*\* = Result exceeds 2018 IDEM RCG COM/IND VICWSLs  
\*\*\* = Result exceeds 2018 IDEM RCG COM/IND VICWSLs

Dibenzoturan	09/27/2018	71.9	▲
1-MN	250	▲	
2-MN	356	▲	
Naphthalene	1,020	***▲	
Pentachlorophenol <sup>1</sup>	<59.5	E	
Pentachlorophenol <sup>2</sup>	<1.0		
Phenanthrene	7.3		
All Remaining SVOCs	< RCGSLs		

Grae	MW-28D	09/26/2018	
Dibenzoturan	<10.0	E	
1-MN	61.0	▲	
2-MN	17.3		
Naphthalene	2.4	▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	NA		
Phenanthrene	<1.0		
All Remaining SVOCs	< RCGSLs		

MW-27D	09/27/2018		
Dibenzoturan	<10.0	E	
1-MN	<1.0		
2-MN	<1.0		
Naphthalene	<1.0		
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	NA		
All Remaining SVOCs	< RCGSLs		

MW-9	09/26/2018		
Benzol(a)Anthracene	0.31	▲	
Dibenzoturan	<100		
1-MN	36.4	▲	
2-MN	25.4	▲	
Naphthalene	3.6		
Pentachlorophenol <sup>1</sup>	99.2	▲	
Pentachlorophenol <sup>2</sup>	<50.0	E	
Phenanthrene	NA		
All Remaining SVOCs	22.8		

MW-2	09/25/2018		
DNAFL Thickess (ft)	0.95		
Benzol(a)Anthracene	0.32	▲	
Dibenzoturan	160	▲	
1-MN	346	▲	
2-MN	146	▲	
Naphthalene	1,010	***▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	NA		
Phenanthrene	153		
All Remaining SVOCs	< RCGSLs		

MW-7DD	09/26/2018		
Benzol(a)Anthracene	0.32	▲	
Dibenzoturan	160	▲	
1-MN	346	▲	
2-MN	146	▲	
Naphthalene	1,010	***▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	NA		
Phenanthrene	153		
All Remaining SVOCs	< RCGSLs		

MW-15	09/25/2018		
DNAFL Thickess (ft)	1.09		
Benzol(a)Anthracene	0.18		
Benzol(b)Fluoranthene	<110		
Benzol(a)Pyrene	<110		
Dibenzoturan	<110		
1-MN	44.3	▲	
2-MN	14.4	▲	
Naphthalene	<1.1		
Pentachlorophenol <sup>1</sup>	<53.8	E	
Pentachlorophenol <sup>2</sup>	<1.0		
Phenanthrene	3.8		
All Remaining SVOCs	< RCGSLs		

MW-4	09/26/2018		
Benzol(a)Anthracene	0.18		
Benzol(b)Fluoranthene	<110		
Benzol(a)Pyrene	<110		
Dibenzoturan	<110		
1-MN	44.3	▲	
2-MN	14.4	▲	
Naphthalene	<1.1		
Pentachlorophenol <sup>1</sup>	<53.8	E	
Pentachlorophenol <sup>2</sup>	<1.0		
Phenanthrene	3.8		
All Remaining SVOCs	< RCGSLs		

MW-16	09/25/2018		
DNAFL Thickess (ft)	1.56		
Benzol(a)Anthracene	0.18		
Benzol(b)Fluoranthene	<110		
Benzol(a)Pyrene	<110		
Dibenzoturan	<110		
1-MN	44.3	▲	
2-MN	14.4	▲	
Naphthalene	<1.1		
Pentachlorophenol <sup>1</sup>	<53.8	E	
Pentachlorophenol <sup>2</sup>	<1.0		
Phenanthrene	3.8		
All Remaining SVOCs	< RCGSLs		

MW-10	09/26/2018		
Benzol(a)Anthracene	0.61	▲	
Benzol(b)Fluoranthene	<100		
Dibenzoturan	<10.0	E	
2-MN	<1.0		
Naphthalene	<1.0		
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	NA		
Phenanthrene	<1.0		
All Remaining SVOCs	< RCGSLs		

MW-6	09/26/2018		
Benzol(a)Anthracene	0.28		
Benzol(b)Fluoranthene	0.12		
Dibenzoturan	125	▲	
1-MN	61.7	▲	
2-MN	42.3	▲	
Naphthalene	977	***▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	<1.0	▲	
Phenanthrene	13.4		
All Remaining SVOCs	< RCGSLs		

MW-14D	09/26/2018		
Benzol(a)Anthracene	0.30	▲	
Benzol(b)Fluoranthene	<100		
Benzol(a)Pyrene	0.14		
Dibenzoturan	142	▲	
1-MN	106	▲	
2-MN	43.6	▲	
Naphthalene	146	***▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	<1.0		
Phenanthrene	97.0		
All Remaining SVOCs	< RCGSLs		

MW-13D	09/25/2018		
DNAFL Thickess (ft)	1.63		

MW-11	09/26/2018		
Dibenzoturan	136	▲	
1-MN	141	▲	
2-MN	87.5	▲	
Naphthalene	3.4	▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	NA		
Phenanthrene	94.4		
All Remaining SVOCs	< RCGSLs		

MW-21D	09/27/2018		
Benzol(b)Fluoranthene	<100		
Dibenzoturan	61.4	▲	
1-MN	68.8	▲	
2-MN	187	▲	
Naphthalene	1,810	***▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	<1.1		
Phenanthrene	51.6		
All Remaining SVOCs	< RCGSLs		

MW-22	09/27/2018		
Dibenzoturan	<10.0	E	
2-MN	<1.0		
Naphthalene	<1.0		
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	NA		
Phenanthrene	1,080	***▲	
All Remaining SVOCs	< RCGSLs		

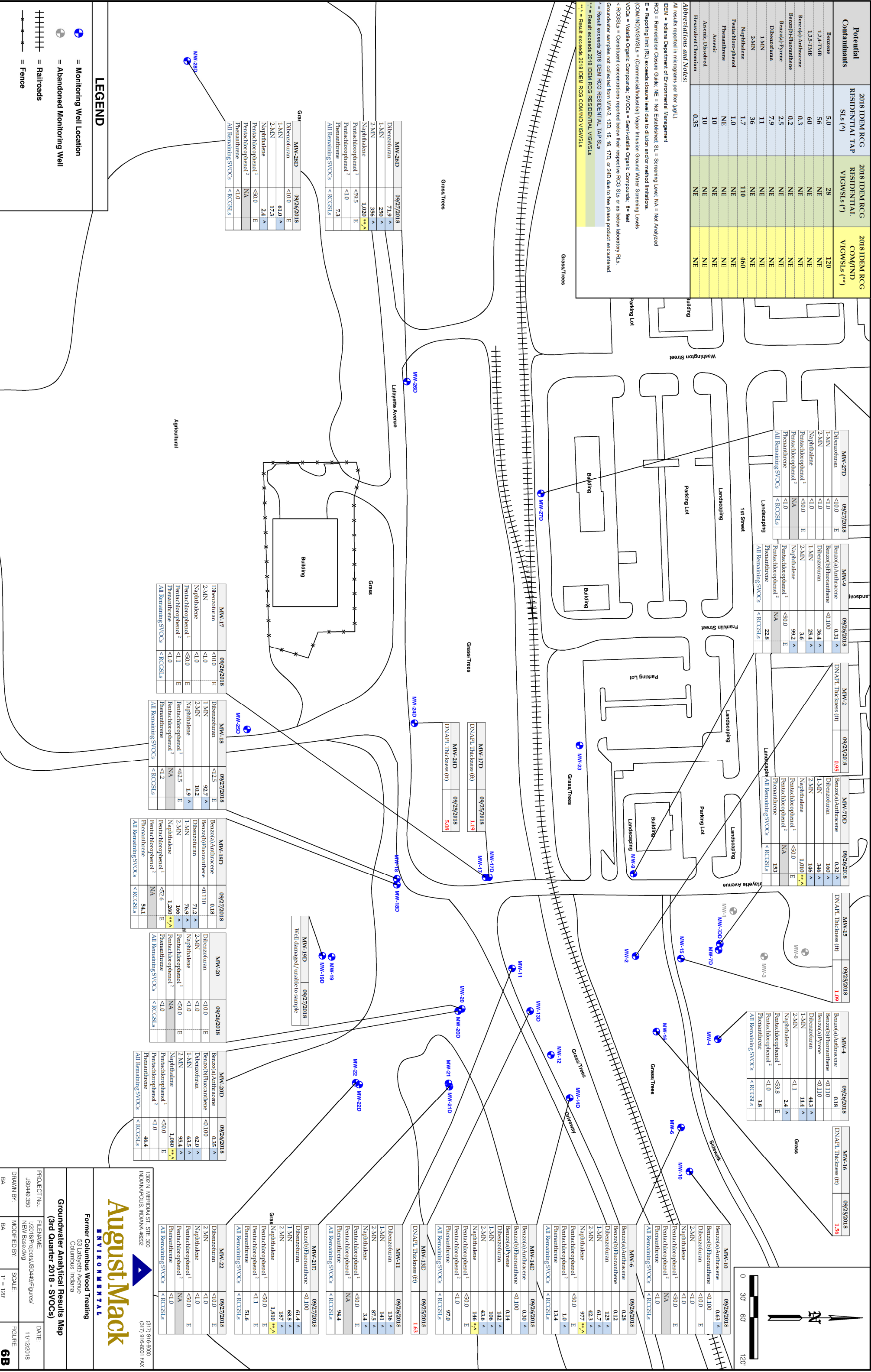
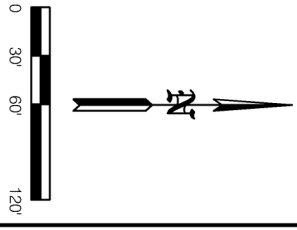
MW-20D	09/26/2018		
Benzol(a)Anthracene	0.35	▲	
Benzol(b)Fluoranthene	<100		
Dibenzoturan	62.0	▲	
1-MN	93.5	▲	
2-MN	95.4	▲	
Naphthalene	1,080	***▲	
Pentachlorophenol <sup>1</sup>	<50.0	E	
Pentachlorophenol <sup>2</sup>	<1.0		
Phenanthrene	46.4		
All Remaining SVOCs	< RCGSLs		

**August Mack**  
ENVIRONMENTAL

Former Columbus Wood Treating  
53 Lafayette Avenue  
Columbus, Indiana

Groundwater Analytical Results Map  
(3rd Quarter 2018 - SVOCs)

PROJECT No.:	FILENAME:	DATE:
JS0449-350	I:/2018/Projects/JS0449/Figures/	11/1/2018
DRAWN BY:	MODIFIED BY:	SCALE:
BA	BA	1" = 120'
		FIGURE: <b>6B</b>



LEGEND

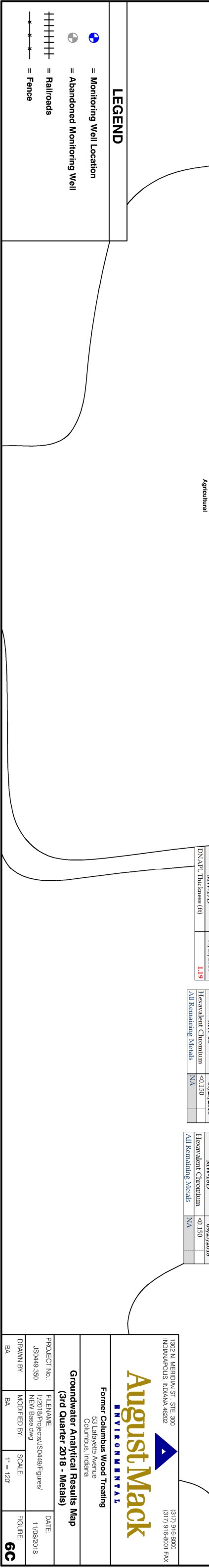
- Monitoring Well Location
- Abandoned Monitoring Well
- Railroads
- Fence

Potential Contaminants	2018 IDEM RCG RESIDENTIAL TAP SLs (*)	2018 IDEM RCG RESIDENTIAL VICWSLs (*)	2018 IDEM RCG COM/IND VICWSLs (**)
Benzene	5.0	28	120
1,2,4-TMB	56	NE	NE
1,3,5-TMB	60	NE	NE
Benzol(a)Anthracene	0.3	NE	NE
Benzol(b)Fluoranthene	0.2	NE	NE
Benzol(a)Pyrene	2.5	NE	NE
Dibenzofuran	7.9	NE	NE
1,2,3,4-TAN	11	NE	NE
2,3,4-TAN	36	NE	NE
Naphthalene	1.7	110	460
Pentachlorophenol	1.0	NE	NE
Phenanthrene	NE	NE	NE
Asaric	10	NE	NE
Asaric, Dissolved	10	NE	NE
Hexavalent Chromium	0.35	NE	NE

**Abbreviations and Notes:**  
All results reported in micrograms per liter (ug/L)  
IDEM = Indiana Department of Environmental Management  
RCG = Remediation Closure Guide; NE = Not Established; SL = Screening Level; NA = Not Analyzed  
E = Reporting limit (RL) exceeds closure level due to dilution and/or method limitations.  
COM/IND/VICWSLs = (Commercial/Industrial) Vapor Intrusion Ground Water Screening Levels  
VOCs = Volatile Organic Compounds; SVOCs = Semi-volatile Organic Compounds; ft= feet  
< RCGSLs = Constituent concentrations reported below their respective RCG SLs or as below laboratory RLs.  
Groundwater samples not collected from MW-2, 130, 15, 16, 17D, or 24D due to free phase product encountered.  
\* = Result exceeds 2018 IDEM RCG RESIDENTIAL TAP SLs  
\*\* = Result exceeds 2018 IDEM RCG COM/IND VICWSLs  
\*\*\* = Result exceeds 2018 IDEM RCG COM/IND VICWSLs

MW-26D	09/27/2018	DJLP-1
Hexavalent Chromium	<0.150	<0.150
All Remaining Metals	NA	NA

MW-28D	09/26/2018	
Asaric	31.3	^
Asaric, Dissolved	28.4	^
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	



MW-15	09/25/2018	1.09
DNAPL Thickness (ft)		

MW-4	09/26/2018	NA
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-16	09/25/2018	1.56
DNAPL Thickness (ft)		

MW-10	09/26/2018	NA
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-6	09/26/2018	20.2 ^
Asaric		17.6 ^
Asaric, Dissolved	<0.150	
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-14D	09/26/2018	NA
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-13D	09/25/2018	1.63
DNAPL Thickness (ft)		

MW-11	09/26/2018	NA
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-21D	09/27/2018	<0.150
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-20	09/26/2018	NA
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-20D	09/26/2018	NA
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

MW-22	09/27/2018	1.51 ^
Hexavalent Chromium	<0.150	
All Remaining Metals	NA	

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Former Columbus Wood Treating  
53 Lafayette Avenue  
Columbus, Indiana


Groundwater Analytical Results Map  
(3rd Quarter 2018 - Metals)

PROJECT No.:	FILENAME:	DATE:
JS0449-350	I:\2018\Projects\JS0449\Figures\NEW Base.dwg	11/09/2018
DRAWN BY:	MODIFIED BY:	SCALE:
BA	BA	1" = 120'

## TABLES

<b>Table 1:</b>	Current Monitoring Well Gauging Data
<b>Table 2:</b>	Current and Historical Monitoring Well Gauging Data
<b>Table 3:</b>	Summary of Historical Groundwater Analytical Results

CURRENT MONITORING WELL GAUGING DATA  
FORMER COLUMBUS WOOD TREATING

	Date	Top of Casing Elevation (amsl)	Depth to Water^ (ft)	Groundwater Elevation (amsl)	LNAPL Free Product Thickness (ft)	DNAPL Free Product Thickness (ft)	LNAPL Corrected GW Elevation (amsl)	Measured Well Depth^ (ft)	Top of Well Screen (ft bg)	Bottom of Well Screen (ft bg)
MONITORING WELLS										
MW-2	9/25/2018	625.85	20.71	605.14	0.00	0.95	NA	NM	14.75	24.75
MW-4	9/25/2018	626.35	20.80	605.55	0.00	0.00	NA	24.78	14.75	24.75
MW-6	9/25/2018	625.15	19.57	605.58	0.00	0.00	NA	27.71	14.75	24.75
MW-7D	9/25/2018	627.70	22.42	605.28	0.00	0.00	NA	54.20	44.75	49.75
MW-7DD	9/25/2018	627.66	22.37	605.29	0.00	0.00	NA	67.45	51.75	61.75
MW-9	9/25/2018	620.19	11.55	608.64	0.00	0.00	NA	23.03	12.75	22.75
MW-10	9/25/2018	623.78	18.10	605.68	0.00	0.00	NA	26.84	13.75	23.75
MW-11	9/25/2018	620.95	16.28	604.67	0.00	0.00	NA	28.05	14.75	24.75
MW-12	9/25/2018	623.68	18.62	605.06	0.00	0.00	NA	28.96	15.75	25.75
MW-13D	9/25/2018	622.43	17.58	604.85	0.00	1.63	NA	NM	41.75	51.75
MW-14D	9/25/2018	622.91	17.72	605.19	0.00	0.00	NA	57.31	43.75	53.75
MW-15	9/25/2018	628.25	22.78	605.47	0.00	1.09	NA	NM	16.75	26.75
MW-16	9/25/2018	626.22	20.86	605.36	0.00	1.56	NA	NM	15.75	25.75
MW-17	9/25/2018	617.85	13.76	604.09	0.00	0.00	NA	25.71	11.75	21.75
MW-17D	9/25/2018	618.02	14.20	603.82	0.00	1.19	NA	NM	37.25	47.25
MW-18	9/25/2018	616.53	12.94	603.59	0.00	0.00	NA	28.00	14.75	24.75
MW-18D	9/25/2018	616.99	13.33	603.66	0.00	0.00	NA	52.90	39.75	49.75
MW-19	9/25/2018	614.62	10.88	603.74	0.00	0.00	NA	22.97	9.75	19.75
MW-20	9/25/2018	618.41	13.83	604.58	0.00	0.00	NA	25.02	11.75	21.75
MW-20D	9/25/2018	618.19	13.57	604.62	0.00	0.00	NA	52.03	39.75	49.75
MW-21	9/25/2018	616.34	11.58	604.76	0.00	0.00	NA	23.04	9.75	19.75
MW-21D	9/25/2018	615.90	11.09	604.81	0.00	0.00	NA	53.06	39.75	49.75
MW-22	9/25/2018	614.00	9.20	604.80	0.00	0.00	NA	18.98	5.75	15.75
MW-22D	9/25/2018	613.73	9.54	604.19	0.00	0.00	NA	52.71	39.75	49.75
MW-23	9/25/2018	625.60	17.17	608.43	0.00	0.00	NA	26.13	12.75	22.75
MW-24D	9/25/2018	617.34	14.49	602.85	0.00	5.08	NA	NM	35.75	45.75
MW-25D	9/25/2018	618.25	15.61	602.64	0.00	0.00	NA	55.56	41.75	51.75
MW-26D	9/25/2018	618.00	16.72	601.28	0.00	0.00	NA	47.42	34.75	44.75
MW-27D	9/25/2018	620.59	18.65	601.94	0.00	0.00	NA	52.52	41.75	51.75
MW-28D	9/25/2018	615.21	16.20	599.01	0.00	0.00	NA	46.96	33.75	43.75
MP-1	9/25/2018	618.12	16.43	601.69	0.00	1.49	NA	NM	NM	NM
MP-2	9/25/2018	619.31	15.13	604.18	0.00	0.00	NA	50.51	NM	NM
MP-3	9/25/2018	627.41	22.37	605.04	0.00	0.00	NA	NM	NM	NM
PZ-1	9/25/2018	611.80	12.69	599.11	0.00	0.00	NA	23.66	13.75	23.75
PZ-2	9/25/2018	612.22	13.16	599.06	0.00	0.00	NA	23.74	13.75	23.75
PZ-3	9/25/2018	611.97	12.92	599.05	0.00	0.00	NA	23.71	13.75	23.75
PZ-4	9/25/2018	615.86	16.64	599.22	0.00	0.00	NA	24.61	14.75	24.75

**Abbreviations & Notes**

amsl = feet above mean sea level

ft = feet; ft bg = feet below grade; kg/L = kilograms per liter

NA = Not Applicable; NM = Not Measured; ND = Not Detected

FP = Free Product; GW = Groundwater

D/L NAPL = Dense/Light Non-Aqueous Phase Liquid


^ = Measurement taken from top of PVC casing

DNAPL presence at the bottom of the well does not affect GW elevation, therefore no correction is applied.

LNAPL Corrected GW Elevation = (FP Thickness x FP Density) + GW Elevation

The following LNAPL density is assumed: Gasoline - 0.745 kg/L

CURRENT AND HISTORICAL MONITORING WELL GAUGING DATA  
FORMER COLUMBUS WOOD TREATING

	Date	Top of Casing Elevation (amsl)	Depth to Water <sup>A</sup> (ft)	Groundwater Elevation (amsl)	LNAPL Free Product Thickness (ft)	DNAPL Free Product Thickness (ft)	LNAPL Corrected GW Elevation (amsl)	Measured Well Depth <sup>A</sup> (ft)	Top of Well Screen (ft bg)	Bottom of Well Screen (ft bg)
MONITORING WELLS										
MW-2	12/12/2016	626.19	21.32	604.87	NM	0.00	NA	27.03	14.75	24.75
	3/13/2017		20.40	605.79	0.00	0.74	NA	26.95		
	5/15/2017		19.00	606.85	0.00	0.20	NA	26.95		
	7/24/2017	625.85	19.22	606.63	0.00	0.75	NA	NM		
	12/18/2017		21.63	604.22	0.00	0.80	NA	NM		
	3/26/2018		20.24	605.61	0.00	1.50	NA	NM		
	6/11/2018		20.77	605.08	0.00	2.02	NA	NM		
	9/25/2018		20.71	605.14	0.00	0.95	NA	NM		
MW-4	12/12/2016	626.75	21.43	605.32	0.00	NM	NA	27.49	14.75	24.75
	3/13/2017		20.53	606.22	0.00	0.00	NA	26.30		
	5/15/2017		19.24	607.11	0.00	0.00	NA	27.34		
	7/24/2017	626.35	20.04	606.31	0.00	0.00	NA	27.29		
	12/18/2017		21.61	604.74	0.00	0.00	NA	27.45		
	3/26/2018		20.31	606.04	0.00	0.00	NA	27.48		
	6/11/2018		20.79	605.56	0.00	0.00	NA	27.45		
	9/25/2018		20.80	605.55	0.00	0.00	NA	24.78		
MW-6	12/12/2016	625.56	20.26	605.30	0.00	NM	NA	27.85	14.75	24.75
	3/13/2017		19.40	606.16	0.00	0.00	NA	27.75		
	5/15/2017		18.14	607.01	0.00	0.00	NA	27.65		
	7/24/2017	625.15	18.94	606.21	0.00	0.00	NA	27.86		
	12/18/2017		20.40	604.75	0.00	0.00	NA	27.62		
	3/26/2018		19.26	605.89	0.00	0.00	NA	27.81		
	6/11/2018		19.67	605.48	0.00	0.00	NA	27.82		
	9/25/2018		19.57	605.58	0.00	0.00	NA	27.71		
MW-7D	12/12/2016	628.04	23.22	604.82	NM	NM	NA	50.10	44.75	49.75
	3/13/2017		22.27	605.77	0.00	0.00	NA	54.15		
	5/15/2017		20.76	606.94	0.00	0.00	NA	54.17		
	7/24/2017	627.70	21.75	605.95	0.00	0.00	NA	54.78		
	12/18/2017		23.50	604.20	0.00	0.00	NA	54.10		
	3/26/2018		22.04	605.66	0.00	0.00	NA	54.24		
	6/11/2018		22.61	605.09	0.00	0.00	NA	55.17		
	9/25/2018		22.42	605.28	0.00	0.00	NA	54.20		
MW-7DD	12/12/2016	627.99	23.28	604.71	0.00	NM	NA	66.41	51.75	61.75
	3/13/2017		22.22	605.77	0.00	0.00	NA	67.75		
	5/15/2017		20.70	606.96	0.00	0.00	NA	66.43		
	7/24/2017	627.66	21.59	606.07	0.00	0.00	NA	66.42		
	12/18/2017		23.46	604.20	0.00	0.00	NA	66.41		
	3/26/2018		21.95	605.71	0.00	0.00	NA	66.42		
	6/11/2018		22.51	605.15	0.00	0.00	NA	66.42		
	9/25/2018		22.37	605.29	0.00	0.00	NA	67.45		
MW-9	12/12/2016	620.53	12.46	608.07	0.00	NM	NA	23.10	12.75	22.75
	3/13/2017		12.12	608.41	0.00	0.00	NA	23.00		
	5/15/2017		11.21	608.98	0.00	0.00	NA	23.08		
	7/24/2017	620.19	11.06	609.13	0.00	0.00	NA	23.11		
	12/18/2017		12.32	607.87	0.00	0.00	NA	22.99		
	3/26/2018		8.12	612.07	0.00	0.00	NA	23.08		
	6/11/2018		11.34	608.85	0.00	0.00	NA	23.05		
	9/25/2018		11.55	608.64	0.00	0.00	NA	23.03		
MW-10	12/12/2016	624.15	18.73	605.42	0.00	NM	NA	26.97	13.75	23.75
	3/13/2017		17.89	606.26	0.00	0.00	NA	26.84		
	5/15/2017		16.06	607.72	0.00	0.00	NA	26.34		
	7/24/2017	623.78	17.41	606.37	0.00	0.00	NA	26.79		
	12/18/2017		18.87	604.91	0.00	0.00	NA	27.70		
	3/26/2018		17.75	606.03	0.00	0.00	NA	26.91		
	6/11/2018		18.15	605.63	0.00	0.00	NA	26.84		
	9/25/2018		18.10	605.68	0.00	0.00	NA	26.84		
MW-11	12/12/2016	621.22	16.86	604.36	0.00	NM	NA	28.10	14.75	24.75
	3/13/2017		15.85	605.37	0.00	0.00	NA	28.05		
	5/15/2017		14.43	606.52	0.00	0.00	NA	28.13		
	7/24/2017	620.95	15.50	605.45	0.00	0.00	NA	28.02		
	12/18/2017		17.16	603.79	0.00	0.00	NA	28.95		
	3/26/2018		15.93	605.02	0.00	0.00	NA	28.09		
	6/11/2018		16.31	604.64	0.00	0.00	NA	28.04		
	9/25/2018		16.28	604.67	0.00	0.00	NA	28.05		
MW-12	12/12/2016	623.92	19.18	604.74	0.00	NM	NA	29.03	15.75	25.75
	3/13/2017		18.24	605.68	0.00	0.00	NA	28.70		
	5/15/2017		16.85	606.83	0.00	0.00	NA	29.30		
	7/24/2017	623.68	17.89	605.79	0.00	0.00	NA	28.97		
	12/18/2017		19.37	604.31	0.00	0.00	NA	28.90		
	3/26/2018		18.26	605.42	0.00	0.00	NA	28.99		
	6/11/2018		18.67	605.01	0.00	0.00	NA	28.99		
	9/25/2018		18.62	605.06	0.00	0.00	NA	28.96		
MW-13D	12/12/2016	622.73	18.12	604.61	NM	2.30	NA	55.10	41.75	51.75
	3/13/2017		17.20	605.53	0.00	1.30	NA	55.00		
	5/15/2017		15.91	606.52	0.00	1.00	NA	55.13		
	7/24/2017	622.43	16.85	605.58	0.00	1.63	NA	NM		
	12/18/2017		18.51	603.92	0.00	1.52	NA	NM		
	3/26/2018		17.21	605.22	0.00	NM	NA	NM		
	6/11/2018		17.64	604.79	0.00	2.13	NA	NM		
	9/25/2018		17.58	604.85	0.00	1.63	NA	NM		
MW-14D	12/12/2016	623.16	18.31	604.85	0.00	NM	NA	57.22	43.75	53.75
	3/13/2017		17.35	605.81	0.00	0.00	NA	57.79		
	5/15/2017		16.09	606.82	0.00	0.00	NA	57.34		
	7/24/2017	622.91	17.02	605.89	0.00	0.00	NA	53.72		
	12/18/2017		18.60	604.31	0.00	0.00	NA	57.15		
	3/26/2018		17.35	605.56	0.00	0.00	NA	57.35		
	6/11/2018		17.77	605.14	0.00	0.00	NA	57.37		
	9/25/2018		17.72	605.19	0.00	0.00	NA	57.31		
MW-15	12/12/2016	626.58	23.51	603.07	NM	0.00	NA	30.09	16.75	26.75
	3/13/2017		22.52	604.06	0.00	0.20	NA	30.00		
	5/15/2017		21.19	607.06	0.00	0.10	NA	30.01		
	7/24/2017	628.25	22.09	606.16	0.00	0.24	NA	NM		
	12/18/2017		23.73	604.52	0.00	1.00	NA	29.84		
	3/26/2018		22.46	605.79	0.00	1.02	NA	NM		
	6/11/2018		22.96	605.29	0.00	1.61	NA	NM		
	9/25/2018		22.78	605.47	0.00	1.09	NA	NM		

## Abbreviations &amp; Notes

amsl = feet above mean sea level

ft = feet, ft bgs = feet below grade, kg/L = kilograms per liter

NA = Not Applicable; NM = Not Measured; ND = Not Detected

FP = Free Product; GW = Groundwater

D/L NAPL = Dense/Light Non-Aqueous Phase Liquid

<sup>A</sup> = Measurement taken from top of PVC casing

DNAPL presence at the bottom of the well does not affect GW elevation, therefore no correction is applied.


LNAPL Corrected GW Elevation = (FP Thickness x FP Density) + GW Elevation

The following LNAPL density is assumed: Gasoline - 0.745 kg/L

MW-19D was destroyed/damaged beyond repair after April 26, 2014



CURRENT AND HISTORICAL MONITORING WELL GAUGING DATA  
FORMER COLUMBUS WOOD TREATING

	Date	Top of Casing Elevation (amsl)	Depth to Water <sup>A</sup> (ft)	Groundwater Elevation (amsl)	LNAPL Free Product Thickness (ft)	DNAPL Free Product Thickness (ft)	LNAPL Corrected GW Elevation (amsl)	Measured Well Depth <sup>A</sup> (ft)	Top of Well Screen (ft bg)	Bottom of Well Screen (ft bg)
MONITORING WELLS										
MW-16	12/12/2016	628.55	21.43	607.12	NM	0.00	NA	29.15	15.75	25.75
	3/13/2017		20.57	607.98	0.00	1.25	NA	29.80		
	5/15/2017		19.32	606.90	0.00	1.00	NA	29.06		
	7/24/2017	626.22	20.13	606.09	0.00	1.52	NA	NM		
	12/18/2017		21.78	604.44	0.00	1.05	NA	NM		
	3/26/2018		20.48	605.74	0.00	1.87	NA	NM		
	6/11/2018		20.95	605.27	0.00	1.82	NA	NM		
	9/25/2018		20.86	605.36	0.00	1.56	NA	NM		
MW-17	12/12/2016	618.19	14.31	603.88	NM	NM	NA	25.14	11.75	21.75
	3/13/2017		13.51	604.68	0.00	0.00	NA	24.90		
	5/15/2017		11.64	606.21	0.00	0.00	NA	25.27		
	7/24/2017	617.85	12.83	605.02	0.00	0.00	NA	25.05		
	12/18/2017		14.77	603.08	0.00	0.00	NA	24.93		
	3/26/2018		13.42	604.43	0.00	0.00	NA	25.17		
	6/11/2018		13.86	603.99	0.00	0.00	NA	24.91		
	9/25/2018		13.76	604.09	0.00	0.00	NA	25.71		
MW-17D	12/12/2016	618.33	14.57	603.76	NM	2.12	NA	49.64	37.25	47.25
	3/13/2017		13.47	604.86	0.00	0.95	NA	48.80		
	5/15/2017		12.01	606.01	0.00	0.85	NA	49.44		
	7/24/2017	618.02	13.15	604.87	0.00	1.74	NA	NM		
	12/18/2017		14.98	603.04	0.00	1.59	NA	NM		
	3/26/2018		13.64	604.38	0.00	NM	NA	NM		
	6/11/2018		14.08	603.94	0.00	3.70	NA	NM		
	9/25/2018		14.20	603.82	0.00	1.19	NA	NM		
MW-18	12/12/2016	616.92	13.50	603.42	NM	NM	NA	27.90	14.75	24.75
	3/13/2017		12.64	604.28	0.00	0.00	NA	27.93		
	5/15/2017		10.72	605.81	0.00	0.00	NA	27.85		
	7/24/2017	616.53	12.04	604.49	0.00	0.00	NA	27.82		
	12/18/2017		13.95	602.58	0.00	0.00	NA	27.90		
	3/26/2018		12.65	603.88	0.00	0.00	NA	27.81		
	6/11/2018		13.04	603.49	0.00	0.00	NA	27.82		
	9/25/2018		12.94	603.59	0.00	0.00	NA	28.00		
MW-18D	12/12/2016	617.36	13.94	603.42	0.00	NM	NA	52.26	39.75	49.75
	3/13/2017		12.75	604.61	0.00	0.00	NA	52.20		
	5/15/2017		11.18	605.81	0.00	0.00	NA	52.18		
	7/24/2017	616.99	12.43	604.56	0.00	0.00	NA	52.20		
	12/18/2017		14.34	602.65	0.00	0.00	NA	52.14		
	3/26/2018		13.03	603.96	0.00	0.00	NA	52.10		
	6/11/2018		13.40	603.59	0.00	0.00	NA	52.10		
	9/25/2018		13.33	603.66	0.00	0.00	NA	52.90		
MW-19	12/12/2016	614.96	11.34	603.62	NM	NM	NA	23.05	9.75	19.75
	3/13/2017		10.56	604.40	0.00	0.00	NA	22.86		
	5/15/2017		8.76	605.86	0.00	0.00	NA	22.81		
	7/24/2017	614.62	10.00	604.62	0.00	0.00	NA	22.98		
	12/18/2017		11.87	602.75	0.00	0.00	NA	22.95		
	3/26/2018		10.55	604.07	0.00	0.00	NA	23.03		
	6/11/2018		10.92	603.70	0.00	0.00	NA	23.01		
	9/25/2018		10.88	603.74	0.00	0.00	NA	22.97		
MW-20	12/12/2016	618.68	14.44	604.24	NM	NM	NA	25.13	11.75	21.75
	3/13/2017		13.52	605.16	0.00	0.00	NA	24.96		
	5/15/2017		12.00	606.41	0.00	0.00	NA	25.19		
	7/24/2017	618.41	13.02	605.39	0.00	0.00	NA	25.22		
	12/18/2017		14.76	603.65	0.00	0.00	NA	24.95		
	3/26/2018		13.48	604.93	0.00	0.00	NA	25.15		
	6/11/2018		13.88	604.53	0.00	0.00	NA	25.23		
	9/25/2018		12.83	605.58	0.00	0.00	NA	25.05		
MW-20D	12/12/2016	618.49	13.83	604.58	0.00	0.00	NA	25.02	39.75	49.75
	3/13/2017		15.15	603.34	0.00	NM	NA	52.20		
	5/15/2017		13.16	605.33	0.00	0.00	NA	52.05		
	7/24/2017	618.19	11.79	606.40	0.00	0.00	NA	52.46		
	12/18/2017		12.89	605.30	0.00	0.00	NA	52.38		
	3/26/2018		14.51	603.68	0.00	0.00	NA	52.13		
	6/11/2018		13.23	604.96	0.00	0.00	NA	52.11		
	9/25/2018		13.61	604.58	0.00	0.00	NA	52.14		
MW-21	12/12/2016	616.67	12.75	605.44	0.00	0.00	NA	52.00	9.75	19.75
	3/13/2017		13.57	604.62	0.00	0.00	NA	52.03		
	5/15/2017		12.04	604.63	NM	NM	NA	22.88		
	7/24/2017	616.34	11.29	605.38	0.00	0.00	NA	23.01		
	12/18/2017		9.80	606.54	0.00	0.00	NA	23.05		
	3/26/2018		10.83	605.51	0.00	0.00	NA	23.06		
	6/11/2018		12.48	603.86	0.00	0.00	NA	22.92		
	9/25/2018		11.22	605.12	0.00	0.00	NA	23.06		
MW-21D	12/12/2016	616.21	11.61	604.73	0.00	0.00	NA	23.00	39.75	49.75
	3/13/2017		11.58	604.76	0.00	0.00	NA	23.04		
	5/15/2017		11.60	604.61	0.00	NM	NA	53.06		
	7/24/2017	615.90	10.70	605.51	0.00	0.00	NA	52.17		
	12/18/2017		9.36	606.54	0.00	0.00	NA	52.22		
	3/26/2018		10.33	605.57	0.00	0.00	NA	52.19		
	6/11/2018		11.97	603.93	0.00	0.00	NA	52.93		
	9/25/2018		10.73	605.17	0.00	0.00	NA	52.98		
MW-22	12/12/2016	614.32	11.11	604.79	0.00	0.00	NA	53.08	5.75	15.75
	3/13/2017		10.12	605.78	0.00	0.00	NA	53.08		
	5/15/2017		11.09	604.81	0.00	0.00	NA	53.06		
	7/24/2017	614.00	9.98	604.34	NM	NM	NA	18.95		
	12/18/2017		9.22	605.10	0.00	0.00	NA	18.86		
	3/26/2018		7.70	606.30	0.00	0.00	NA	18.95		
	6/11/2018		15.32	598.68	0.00	0.00	NA	18.89		
	9/25/2018		10.43	603.57	0.00	0.00	NA	18.89		
MW-22D	12/12/2016	614.07	9.17	604.83	0.00	0.00	NA	18.97	39.75	49.75
	3/13/2017		9.72	604.28	0.00	0.00	NA	19.00		
	5/15/2017		8.25	605.75	0.00	0.00	NA	19.00		
	7/24/2017	613.73	9.20	604.80	0.00	0.00	NA	18.98		
	12/18/2017		9.64	604.43	NM	NM	NA	53.18		
	3/26/2018		8.95	605.12	0.00	0.00	NA	52.11		
	6/11/2018		7.43	606.30	0.00	0.00	NA	52.43		
	9/25/2018		18.31	595.42	0.00	0.00	NA	52.75		

## Abbreviations &amp; Notes

amsl = feet above mean sea level

ft = feet, ft bg= feet below grade, kg/L = kilograms per liter

NA = Not Applicable; NM = Not Measured; ND = Not Detected

FP = Free Product; GW = Groundwater

D/L NAPL = Dense/Light Non-Aqueous Phase Liquid

<sup>A</sup> = Measurement taken from top of PVC casing


DNAPL presence at the bottom of the well does not affect GW elevation, therefore no correction is applied.

LNAPL Corrected GW Elevation = (FP Thickness x FP Density) + GW Elevation

The following LNAPL density is assumed: Gasoline - 0.745 kg/L

MW-19D was destroyed/damaged beyond repair after April 26, 2014

CURRENT AND HISTORICAL MONITORING WELL GAUGING DATA  
FORMER COLUMBUS WOOD TREATING

	Date	Top of Casing Elevation (amsl)	Depth to Water <sup>A</sup> (ft)	Groundwater Elevation (amsl)	LNAPL Free Product Thickness (ft)	DNAPL Free Product Thickness (ft)	LNAPL Corrected GW Elevation (amsl)	Measured Well Depth <sup>A</sup> (ft)	Top of Well Screen (ft bg)	Bottom of Well Screen (ft bg)
MONITORING WELLS										
MW-23	12/12/2016	621.96	18.42	603.54	NM	NM	NA	23.28	12.75	22.75
	3/13/2017		18.15	603.81	0.00	0.00	NA	26.15		
	5/15/2017		14.78	610.82	0.00	0.00	NA	23.24		
	7/24/2017	625.60	15.09	610.51	0.00	0.00	NA	26.12		
	12/18/2017		18.85	606.75	0.00	0.00	NA	26.10		
	3/26/2018		13.82	611.78	0.00	0.00	NA	26.21		
	6/11/2018		17.15	608.45	0.00	0.00	NA	26.08		
	9/25/2018		17.17	608.43	0.00	0.00	NA	26.13		
MW-24D	12/12/2016	617.64	15.03	602.61	NM	2.18	NA	47.38	35.75	45.75
	3/13/2017		13.71	603.93	0.00	3.79	NA	47.78		
	5/15/2017		12.03	605.31	0.00	1.00	NA	47.38		
	7/24/2017	617.34	13.32	604.02	0.00	3.50	NA	NM		
	12/18/2017		15.54	601.80	0.00	6.75	NA	47.33		
	3/26/2018		14.16	603.18	0.00	6.31	NA	NM		
	6/11/2018		14.61	602.73	0.00	6.07	NA	NM		
	9/25/2018		14.49	602.85	0.00	5.08	NA	NM		
MW-25D	12/12/2016	618.59	16.05	602.54	NM	NM	NA	51.86	41.75	51.75
	3/13/2017		14.80	603.79	0.00	0.00	NA	55.04		
	5/15/2017		13.09	605.16	0.00	0.00	NA	55.27		
	7/24/2017	618.25	14.53	603.72	0.00	0.00	NA	55.28		
	12/18/2017		16.59	601.66	0.00	0.00	NA	55.11		
	3/26/2018		15.30	602.95	0.00	0.00	NA	55.32		
	6/11/2018		15.68	602.57	0.00	0.00	NA	56.05		
	9/25/2018		15.61	602.64	0.00	0.00	NA	55.56		
MW-26D	12/12/2016	618.27	17.36	600.91	NM	NM	NA	47.55	34.75	44.75
	3/13/2017		15.84	602.43	0.00	0.00	NA	47.65		
	5/15/2017		13.84	604.16	0.00	0.00	NA	47.45		
	7/24/2017	618.00	15.32	602.68	0.00	0.00	NA	47.32		
	12/18/2017		17.36	600.64	0.00	0.00	NA	47.35		
	3/26/2018		16.31	601.69	0.00	0.00	NA	47.41		
	6/11/2018		16.93	601.07	0.00	0.00	NA	47.41		
	9/25/2018		16.72	601.28	0.00	0.00	NA	47.42		
MW-27D	12/12/2016	616.88	19.46	597.42	NM	NM	NA	51.90	41.75	51.75
	3/13/2017		18.42	598.46	0.00	0.00	NA	51.69		
	5/15/2017		15.89	604.70	0.00	0.00	NA	52.07		
	7/24/2017	620.59	17.39	603.20	0.00	0.00	NA	51.98		
	12/18/2017		20.92	599.67	0.00	0.00	NA	51.81		
	3/26/2018		18.35	602.24	0.00	0.00	NA	51.82		
	6/11/2018		19.00	601.59	0.00	0.00	NA	51.99		
	9/25/2018		17.23	603.36	0.00	0.00	NA	52.55		
MW-28D	3/13/2017	615.21	15.30	599.91	NM	NM	NA	46.90	33.75	43.75
	5/15/2017		13.50	601.71	0.00	0.00	NA	47.08		
	7/24/2017		14.21	601.00	0.00	0.00	NA	47.05		
	12/18/2017		16.94	598.27	0.00	0.00	NA	46.95		
	3/26/2018		15.25	599.96	0.00	0.00	NA	46.99		
	6/11/2018		15.35	599.86	0.00	0.00	NA	46.96		
	9/25/2018		14.42	600.79	0.00	0.00	NA	46.95		
	9/25/2018		16.20	599.01	0.00	0.00	NA	46.96		
MP-1	12/12/2016	618.12	17.11	601.01	NM	2.13	NA	46.09	NM	NM
	3/13/2017		15.59	602.53	0.00	0.66	NA	46.51		
	5/15/2017		13.61	604.51	0.00	0.50	NA	46.49		
	7/24/2017		15.16	602.96	0.00	2.10	NA	NM		
	12/18/2017		17.80	600.32	0.00	1.51	NA	NM		
	3/26/2018		16.07	602.05	0.00	NM	NA	NM		
	6/11/2018		16.70	601.42	0.00	NM	NA	NM		
	9/25/2018		16.43	601.69	0.00	1.49	NA	NM		
MP-2	12/12/2016	619.31	15.72	603.59	NM	NM	NA	50.51	NM	NM
	3/13/2017		14.64	604.67	0.00	0.00	NA	50.55		
	5/15/2017		13.13	606.18	0.00	0.00	NA	50.55		
	7/24/2017		14.34	604.97	0.00	0.00	NA	50.30		
	12/18/2017		16.06	603.25	0.00	0.00	NA	50.48		
	3/26/2018		14.48	604.83	0.00	0.00	NA	50.60		
	6/11/2018		15.20	604.11	0.00	0.00	NA	50.59		
	9/25/2018		15.13	604.18	0.00	0.00	NA	50.51		
MP-3	12/12/2016	627.41	23.04	604.37	NM	NM	NA	58.61	NM	NM
	3/13/2017		21.98	605.43	0.00	0.00	NA	58.54		
	5/15/2017		20.62	606.79	0.00	0.00	NA	58.40		
	7/24/2017		18.80	608.61	0.00	0.00	NA	58.40		
	12/18/2017		23.23	604.18	0.00	0.00	NA	58.40		
	3/26/2018		21.98	605.43	0.00	0.00	NA	58.49		
	6/11/2018		22.44	604.97	0.00	0.00	NA	58.95		
	9/25/2018		22.37	605.04	0.00	0.00	NA	NM		
PZ-1	3/26/2018	611.80	11.72	600.08	0.00	0.00	NA	23.78	13.75	23.75
	6/11/2018		11.93	599.87	0.00	0.00	NA	23.91		
	9/25/2018		12.69	599.11	0.00	0.00	NA	23.66		
PZ-2	3/26/2018	612.22	12.24	599.98	0.00	0.00	NA	23.76	13.75	23.75
	6/11/2018		12.33	599.89	0.00	0.00	NA	23.95		
	9/25/2018		13.16	599.06	0.00	0.00	NA	23.74		
PZ-3	3/26/2018	611.97	11.98	599.99	0.00	0.00	NA	23.81	13.75	23.75
	6/11/2018		12.10	599.87	0.00	0.00	NA	23.75		
	9/25/2018		12.92	599.05	0.00	0.00	NA	23.71		
PZ-4	3/26/2018	615.86	15.82	600.04	0.00	0.00	NA	24.61	14.75	24.75
	6/11/2018		15.93	599.93	0.00	0.00	NA	24.61		
	9/25/2018		16.64	599.22	0.00	0.00	NA	24.61		


## Abbreviations &amp; Notes

amsl = feet above mean sea level  
ft = feet, ft bg = feet below grade, kg/L = kilograms per liter  
NA = Not Applicable; NM = Not Measured; ND = Not Detected  
FP = Free Product; GW = Groundwater  
D/L NAPL = Dense/Light Non-Aqueous Phase Liquid  
<sup>A</sup> = Measurement taken from top of PVC casing

DNAPL presence at the bottom of the well does not affect GW elevation, therefore no correction is applied.  
LNAPL Corrected GW Elevation = (FP Thickness x FP Density) + GW Elevation  
The following LNAPL density is assumed: Gasoline - 0.745 kg/L  
MW-19D was destroyed/damaged beyond repair after April 29, 2014

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Volatile Organic Compounds (VOCs) via USEPA Method 8260										
			Benzene	Toluene	Ethylbenzene	Xylene (Total)	n-Butylbenzene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichloroethane	All Other Analyzed VOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			5	1,000	700	10,000	1,000	450	660	56	60	5	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			28	NE	NE	NE	NE	NE	NE	NE	NE	50	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			120	NE	NE	NE	NE	NE	NE	NE	NE	210	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<5.0	<5.0	<5.0	<10.0	13.8	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/04/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-6		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<5.0	<5.0	<5.0	11.7	<5.0	<5.0	<5.0	10.4	<5.0	<5.0	BRL
		05/16/2017	<5.0	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0 E	BRL
		07/24/2017	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0 E	BRL
		10/04/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/27/2018	<5.0	<5.0	6.5	16.8	<5.0	<5.0	<5.0	16.7	7.1	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	8.5	<5.0	<5.0	BRL
		09/26/2018	<5.0	<5.0	5.2	<10.0	<5.0	<5.0	<5.0	13.5	5.7	<5.0	BRL
MW-7D		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/24/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/03&11/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		03/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-7DD		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	7.2	<5.0	36.0	16.0	<5.0	BRL
		05/18/2017	<5.0	<5.0	<5.0	<10.0	<5.0	7.7	<5.0	37.3	17.5	<5.0	BRL
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/04&12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	8.0	<5.0	39.1	19.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	<10.0	<5.0	8.0	<5.0	41.0	17.9	<5.0	BRL
		09/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	9.9	5.3	50.6	24.0	<5.0	BRL

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide

E = Reporting limit (RL) exceeds closure level due to dilution and/or method limitations.

NE = Not Established; NA = Not Analyzed; BRL = Below Laboratory Reporting Limits

J = Value is estimated based on quality control criteria; MDL = Method Detection Limit

USEPA = United States Environmental Protection Agency

Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.

All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).

Where low level CR<sup>1</sup> analysis was not performed, results are reported to the MDL

<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

<sup>2</sup> = Common Laboratory Artifact

The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs


\* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)

\*\* = At or Above IDEM RCG 2018 Commercial/Industrial VIGWSLs

Z = Value is unusable based on anlytical verification. Presented for reference only.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Volatile Organic Compounds (VOCs) via USEPA Method 8260										
			Benzene	Toluene	Ethylbenzene	Xylene (Total)	n-Butylbenzene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dicholoroethane	All Other Analyzed VOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			5	1,000	700	10,000	1,000	450	660	56	60	5	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			28	NE	NE	NE	NE	NE	NE	NE	NE	50	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			120	NE	NE	NE	NE	NE	NE	NE	NE	210	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9	MW-DUP-1	12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<5.0	<5.0	7.0	26.9	<5.0	<5.0	<5.0	24.5	5.2	<5.0	BRL
		05/18/2017	<5.0	<5.0	<5.0	17.0	<5.0	<5.0	<5.0	16.1	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	6.6	<5.0	<5.0	BRL
		10/04&12/2017	<25.0 E	<25.0	<25.0	<50.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0 E	BRL
		03/28/2018	<5.0	<5.0	15.8	53.5	<5.0	<5.0	<5.0	45.2	9.3	<5.0	BRL
		03/28/2018	<5.0	<5.0	16.3	51.1	<5.0	<5.0	<5.0	45.3	9.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	12.2	<5.0	<5.0	<5.0	9.3	<5.0	<5.0	BRL
		09/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	BRL
MW-10		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/13/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/03&12/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		03/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-11		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<5.0	<5.0	7.6	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/17/2017	<5.0	<5.0	8.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	11.7	10.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/05&12/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		03/28/2018	<5.0	<5.0	13.1	<10.0	<5.0	<5.0	<5.0	5.2	<5.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	5.7	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/26/2018	<5.0	<5.0	5.4	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-12		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/03&12/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		03/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide

E = Reporting limit (RL) exceeds closure level due to dilution and/or method limitations.

NE = Not Established; NA = Not Analyzed; BRL = Below Laboratory Reporting Limits

J = Value is estimated based on quality control criteria; MDL = Method Detection Limit

USEPA = United States Environmental Protection Agency

Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.

All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).

Where low level CR<sup>1</sup> analysis was not performed, results are reported to the MDL

<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

<sup>2</sup> = Common Laboratory Artifact

The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs


\* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)

\*\* = At or Above IDEM RCG 2018 Commercial/Industrial VIGWSLs

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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Volatile Organic Compounds (VOCs) via USEPA Method 8260										
			Benzene	Toluene	Ethylbenzene	Xylene (Total)	n-Butylbenzene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichloroethane	All Other Analyzed VOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			5	1,000	700	10,000	1,000	450	660	56	60	5	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			28	NE	NE	NE	NE	NE	NE	NE	NE	50	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			120	NE	NE	NE	NE	NE	NE	NE	NE	210	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-14D	MW-DUP-1	12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	11.1	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/06&11/2017	<25.0 E	<25.0	<25.0	<50.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0 E	BRL
		03/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	5.6	<5.0	<5.0	BRL
MW-17		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/17/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/05/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-18		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/05/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/12/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL

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- ^ = At or Above IDEM RCG 2018 Residential Tap Water SLs
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FORMER COLUMBUS WOOD TREATING

<div></div>			Volatile Organic Compounds (VOCs) via USEPA Method 8260											
			Benzene	Toluene	Ethylbenzene	Xylene (Total)	n-Butylbenzene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichloroethane	All Other Analyzed VOCs	
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			5	1,000	700	10,000	1,000	450	660	56	60	5	Varies	
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			28	NE	NE	NE	NE	NE	NE	NE	NE	50	Varies	
2018 IDEM RCG COM/IND VIGWSLs (**)			120	NE	NE	NE	NE	NE	NE	NE	NE	210	Varies	
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-18D	MW-DUP-1	12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		03/14/2017	<5.0	<5.0	27.8	51.6	<5.0	<5.0	<5.0	32.6	11.7	<5.0	BRL	
		03/14/2017	<5.0	<5.0	26.4	48.6	<5.0	<5.0	<5.0	31.9	11.4	<5.0	BRL	
	MW-DUP-1	05/17/2017	<5.0	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
		05/17/2017	<5.0	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
		07/26/2017	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
	MW-DUP-1	07/26/2017	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
		10/09/2017	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
		10/09/2017	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
	MW-DUP-1	03/29/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		06/13/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/27/2018	5.2 ^	<5.0	38.8	72.4	<5.0	5.5	<5.0	48.7	17.5	<5.0	BRL	
MW-19		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		03/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		10/06/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		03/28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
MW-20		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		03/14/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		05/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		10/04&12/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL	
		03/28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
		06/12&29/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL	
		09/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL	
MW-20D		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		03/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	11.5	<5.0	<5.0	BRL	
		05/17/2017	<5.0	<5.0	6.7	14.4	<5.0	<5.0	<5.0	19.1	7.1	<5.0	BRL	
		07/26/2017	<5.0	<5.0	15.0	34.7	<5.0	<5.0	<5.0	45.6	17.8	<5.0	BRL	
		10/09/2017	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
		03/28/2018	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
		06/12&29/2018	<5.0	<5.0	5.9	<10.0	<5.0	<5.0	NA	18.5	7.0	<5.0	BRL	
		09/26/2018	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL

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<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

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The following denote the symbol and color of screening level exceedances:

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FORMER COLUMBUS WOOD TREATING

<div></div>			Volatile Organic Compounds (VOCs) via USEPA Method 8260										
			Benzene	Toluene	Ethylbenzene	Xylene (Total)	n-Butylbenzene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichloroethane	All Other Analyzed VOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			5	1,000	700	10,000	1,000	450	660	56	60	5	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			28	NE	NE	NE	NE	NE	NE	NE	NE	50	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			120	NE	NE	NE	NE	NE	NE	NE	NE	210	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-21		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/04&11/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		03/28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21D	MW-DUP-2	12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<5.0	6.8	12.6	33.0	<5.0	<5.0	<5.0	13.8	<5.0	<5.0	BRL
		05/17/2017	<5.0	7.5	13.6	34.8	<5.0	<5.0	<5.0	15.4	5.3	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/09/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/28/2018	8.9 ^	19.8	33.3	88.3	<5.0	<5.0	<5.0	33.3	11.4	<5.0	BRL
		06/12&29/2018	6.7 ^	19.7	28.0	83.2	<5.0	<5.0	NA	31.1	11.9	<5.0	BRL
		09/27/2018	5.9 ^	16.1	26.9	76.6	<5.0	<5.0	<5.0	31.5	10.5	<5.0	BRL
MW-22		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/04&11/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		03/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/13&29/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		09/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-22D		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/04&11/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		03/26/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL

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Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.

All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).

Where low level CR<sup>16</sup> analysis was not performed, results are reported to the MDL

<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

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The following denote the symbol and color of screening level exceedances:

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\* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)

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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Volatile Organic Compounds (VOCs) via USEPA Method 8260										
			Benzene	Toluene	Ethylbenzene	Xylene (Total)	n-Butylbenzene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichloroethane	All Other Analyzed VOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			5	1,000	700	10,000	1,000	450	660	56	60	5	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			28	NE	NE	NE	NE	NE	NE	NE	NE	50	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			120	NE	NE	NE	NE	NE	NE	NE	NE	210	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-23		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/17/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/05/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-25D		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/18/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/25/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/05/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/29/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-26D	MW-DUP-2	01/12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	7.6 ^	<5.0	61.8	75.6	<5.0	7.1	<5.0	49.8	17.7	<5.0	BRL
		03/16/2017	7.8 ^	<5.0	62.5	76.7	<5.0	7.3	<5.0	50.6	18.2	<5.0	BRL
	MW-DUP-2	05/17/2017	<5.0	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
		05/17/2017	<17.0 E	<500	<500	<1,000	<500	<500 E	<500	<500 E	<500 E	<500 E	BRL
	MW-DUP-2	07/26/2017	9.1 ^	<5.0	53.3	61.4	<5.0	8.7	<5.0	67.2 ^	22.9	<5.0	BRL
		07/26/2017	<50.0 E	<50.0	<50.0	<100	<50.0	<50.0	<50.0	<50.0	<50.0	E	BRL
	MW-DUP-2	10/13/2017	11.4 ^	<5.0	59.3	67.9	<5.0	9.4	<5.0	51.2	17.3	<5.0	BRL
		10/13/2017	11.5 ^	<5.0	60.1	69.3	<5.0	9.4	<5.0	52.9	16.7	<5.0	BRL
	MW-DUP-2	03/29/2018	9.1 ^	<5.0	58.6	67.3	<5.0	15.7	<5.0	67.7 ^	23.7	<5.0	BRL
		03/29/2018	9.2 ^	<5.0	56.6	65.8	<5.0	14.6	<5.0	64.5 ^	22.1	<5.0	BRL
	DUP-1	06/13/2018	10.4 ^	<5.0	53.8	67.7	<5.0	8.7	<5.0	43.2	16.8	<5.0	BRL
		06/13/2018	10.0 ^	<5.0	49.4	59.0	<5.0	7.7	<5.0	37.6	13.4	<5.0	BRL
	MWDUP-1	09/27/2018	12.5 ^	<5.0	78.2	106	<5.0	12.4	<5.0	44.3	17.2	<5.0	BRL
		09/27/2018	12.0 ^	<5.0	77.8	104	<5.0	12.2	<5.0	42.2	17.1	<5.0	BRL

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SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Volatile Organic Compounds (VOCs) via USEPA Method 8260										
			Benzene	Toluene	Ethylbenzene	Xylene (Total)	n-Butylbenzene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichloroethane	All Other Analyzed VOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			5	1,000	700	10,000	1,000	450	660	56	60	5	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			28	NE	NE	NE	NE	NE	NE	NE	NE	50	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			120	NE	NE	NE	NE	NE	NE	NE	NE	210	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-27D		01/12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/17/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/05/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		03/28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/12&28/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		09/27/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
MW-28D		03/15/2017	5.4 ^	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		05/17/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		07/26/2017	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		10/06/2017	5.5 ^	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	6.3	<5.0	<5.0	BRL
		03/29/2018	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL
		06/13&29/2018	10.1 ^	<5.0	<5.0	<10.0	<5.0	<5.0	NA	<5.0	<5.0	<5.0	BRL
		09/26/2018	7.3 ^	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	BRL

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<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.  
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SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Semivolatile Organic Compounds (SVOCs) via USEPA Method 8270 Scan & 8270SIM												
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-Anthracene	Benzo(a)pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-flouranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	2,4-Dimethylphenol	Di-n-butyl-phthalate <sup>2</sup>
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			530	NE	1,800	0.3	0.2	2.5	NE	25	250	0.25	7.9	360	900
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4		12/15/2016	120	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	99.0 ^	<10.0	<10.0
		03/15/2017	93.0	<1.0	5.0	0.17	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	82.9 ^	<10.0	<10.0
		05/16/2017	72.1	<1.0	4.8	0.17	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	66.2 ^	<10.0	<10.0
		07/25/2017	25.1	<1.0	1.4	0.12	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	15.7 ^	<10.0	<10.0
		10/04/2017	109	<1.7	11.1	4.5 ^	2.4 ^	3.1 ^	0.77	1.5	4.9	0.32 *	71.5 ^	<16.7	<16.7
		03/27/2018	82.0	<1.0	3.9	0.24	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	65.1 ^	<10.0	<10.0
		06/12/2018	74.1	1.1	3.7	0.23	<0.100	0.10	<0.100	<0.100	<0.500	<0.100	48.5 ^	<10.0	<10.0
		09/26/2018	55.3	<1.1	3.3	0.18	<0.110	<0.110	<0.110	<0.110	<0.540	<0.110	44.3 ^	<10.8	<10.8
MW-6		12/15/2016	425	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	179 ^	<10.0	<10.0
		03/15/2017	174	3.7	<0.100	0.17	<0.100	0.13	<0.100	0.10	<0.500	<0.100	83.1 ^	<10.0	<10.0
		05/16/2017	132	<10.0	3.3	<1.0 E	<1.0 E	<1.0	<1.0	<1.0	<5.0	<1.0 E	62.1 ^	99.1	<10.0
		07/24/2017	152	3.5	4.4	0.13	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	39.2 ^	<10.0	<10.0
		10/04/2017	431	2.0	6.5	1.2 ^	0.37 ^	0.55	0.12	0.25	1.4	<0.100	138 ^	<10.0	<10.0
		03/27/2018	238	6.4	<0.100	0.40 ^	0.18	0.30	<0.100	<0.100	<0.520	<0.100	78.5 ^	<10.4	<10.4
		06/12/2018	163	4.5	3.7	0.61 ^	0.34 ^	0.61	0.13	0.25	0.59	<0.100	71.4 ^	<10.0	<10.0
		09/26/2018	288	3.6	5.0	0.28	0.12	0.21	<0.100	<0.100	<0.500	<0.100	125 ^	<10.0	<10.0
MW-7D		12/13/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/14/2017	1.8	<1.0	0.15	0.14	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/16/2017	<1.0	<1.0	0.13	0.17	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/24/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/03&11/2017	2.3	<1.0	0.76	0.37 ^	0.13	0.16	<0.100	<0.100	<0.520	NA	<10.4 E	<10.4	<10.4
		03/27/2018	<1.0	<1.0	<0.100	0.18	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-7DD		12/14/2016	309	<10.0	25	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	179 ^	<10.0	<10.0
		03/16/2017	258	<1.0	<0.100	0.32 ^	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	170 ^	<10.0	<10.0
		05/18/2017	379	1.2	10.3	0.63 ^	0.15	0.23	<0.100	<0.100	<0.500	<0.100	242 ^	<10.0	<10.0
		07/26/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/04&12/2017	305	1.6	11.3	1.3 ^	0.55 ^	0.70	0.18	0.32	1.8	NA	48.2 ^	<11.2	<11.2
		03/28/2018	259	<1.1	6.8	0.27	<0.110	<0.110	<0.110	<0.110	<0.550	<0.110	111 ^	<11.0	<11.0
		06/12/2018	224	<1.0	8.0	0.23	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	80.9 ^	<10.0	<10.0
		09/26/2018	315	2.0	8.2	0.32 ^	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	160 ^	<10.0	<10.0

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SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Semivolatile Organic Compounds (SVOCs) via USEPA Method 8270 Scan & 8270SIM												
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-Anthracene	Benzo(a)pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-flouranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	2,4-Dimethylphenol	Di-n-butyl-phthalate <sup>2</sup>
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			530	NE	1,800	0.3	0.2	2.5	NE	25	250	0.25	7.9	360	900
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9	MW-DUP-1	12/15/2016	144	<10.0	10.7	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	92.2 ^	<10.0	<10.0
		03/15/2017	115	<1.0	5.0	0.84 ^	0.45 ^	0.54	0.19	0.44	0.74	0.11	84.7 ^	<10.0	<10.0
		05/18/2017	146	1.0	4.8	0.30 ^	<0.100	0.14	<0.100	<0.100	<0.500	<0.100	50.7 ^	<10.0	<10.0
		07/25/2017	25.3	<1.0	1.4	0.16	<0.100	0.38	0.12	0.21	<0.500	0.14	<10.0 E	<10.0	<10.0
		10/04&12/2017	65.3	<1.1	4.3	1.1 ^	0.53 ^	0.69	0.20	0.29	1.4	NA	31.3 ^	<10.9	<10.9
		03/28/2018	211	1.8	7.0	0.78 ^	0.25 ^	0.35	<0.100	0.17	0.63	<0.100	103 ^	<10.0	<10.0
		03/28/2018	227	<1.0	7.9	0.86 ^	0.29 ^	0.39	0.11	0.22	0.68	<0.100	101 ^	<10.0	<10.0
		06/12/2018	57.7	<1.0	3.1	0.25	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	43.5 ^	<10.0	<10.0
		09/26/2018	56.5	<1.0	3.9	0.31 ^	<0.100	0.12	<0.100	<0.100	<0.500	<0.100	36.4 ^	<10.0	<10.0
MW-10		12/15/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/13/2017	<1.0	<1.0	0.13	0.66 ^	0.25 ^	0.21	0.35	0.39	0.62	0.59 *	<10.0 E	<10.0	<10.0
		05/15/2017	<1.0	<1.0	0.13	0.42 ^	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	10.7
		07/25/2017	1.1	<1.0	<0.100	0.29	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/03&12/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		03/27/2018	<1.0	<1.0	<0.100	0.85 ^	<0.100	<0.100	<0.100	<0.100	0.57	<0.100	<10.0 E	<10.0	<10.0
		06/12/2018	<1.0	<1.0	<0.100	0.59 ^	0.11	0.17	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		09/26/2018	2.1	<1.0	<0.100	0.63 ^	<0.100	0.13	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-11		12/14/2016	226	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	141 ^	<10.0	<10.0
		03/14/2017	172	1.1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	114 ^	<10.0	<10.0
		05/17/2017	212	1.1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	133 ^	<10.0	<10.0
		07/25/2017	106	<1.0	1.2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	68.6 ^	<10.0	<10.0
		10/05&12/2017	217	1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	107 ^	<10.0	<10.0
		03/28/2018	175	1.4	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	110 ^	<10.0	<10.0
		06/12/2018	136	1.9	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	72.6 ^	<10.0	<10.0
		09/26/2018	191	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	136 ^	<10.0	<10.0
MW-12		12/14/2016	96.9	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/14/2017	23.0	<1.0	0.21	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/15/2017	22.7	<1.0	0.20	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	11.3
		07/25/2017	3.1	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/03&12/2017	55.4	<1.0	0.43	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		03/27/2018	11.7	<1.1	0.19	<0.110	<0.110	<0.110	<0.110	<0.110	<0.540	<0.110	<10.8 E	<10.8	<10.8

Abbreviations & Notes


IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide  
E = Reporting limit (RL) exceeds closure level due to dilution and/or method limitations.  
NE = Not Established; NA = Not Analyzed; BRL = Below Laboratory Reporting Limits  
J = Value is estimated based on quality control criteria; MDL = Method Detection Limit  
USEPA = United States Environmental Protection Agency  
Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.  
All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).  
Where low level CR<sup>1</sup> analysis was not performed, results are reported to the MDL  
<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.  
<sup>2</sup> = Common Laboratory Artifact

The following denote the symbol and color of screening level exceedances:  
^ = At or Above IDEM RCG 2018 Residential Tap Water SLs  
\* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)  
\*\* = At or Above IDEM RCG 2018 Commercial/Industrial VIGWSLs

Z = Value is unusable based on anlytical verification. Presented for reference only.

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SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Semivolatile Organic Compounds (SVOCs) via USEPA Method 8270 Scan & 8270SIM												
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-Anthracene	Benzo(a)pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-flouranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	2,4-Dimethylphenol	Di-n-butyl-phthalate <sup>2</sup>
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			530	NE	1,800	0.3	0.2	2.5	NE	25	250	0.25	7.9	360	900
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-14D	MW-DUP-1	12/14/2016	169	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	99.9 ^	<10.0	<10.0
		12/14/2016	148	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	103 ^	<10.0	<10.0
		03/14/2017	228	<1.0	<0.100	0.14	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	134 ^	<10.0	<10.0
		05/16/2017	153	<1.0	14.5	6.6 ^	2.2 ^	2.9 ^	0.70	1.4	5.7	0.27 *	111 ^	<10.0	<10.0
		07/25/2017	32.2	<1.0	0.19	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/06&11/2017	239	<1.0	7.0	0.52 ^	0.34 ^	0.42	0.15	0.21	0.62	<0.100	84.9 ^	<10.0	<10.0
		03/27/2018	152	<1.0	2.0	0.13	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	61.1 ^	<10.0	<10.0
		06/12/2018	100	<1.0	3.2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	65.8 ^	<10.0	<10.0
		09/26/2018	263	1.1	8.7	0.30 ^	<0.100	0.14	<0.100	<0.100	<0.500	<0.100	142 ^	<10.0	<10.0
MW-17		12/15/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/15/2017	1.5	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/17/2017	3.6 J	<1.0 J	<0.100	<0.100 J	<0.100 J	<0.100 J	<0.100 J	<0.100 J	<0.500 J	<0.100	<10.0 E	<10.0	<10.0
		07/26/2017	1.8	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/05/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		03/26/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		06/12/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		09/26/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-18		12/13/2016	22.7	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/15/2017	31.2	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/16/2017	45.1	<1.0	0.13	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/25/2017	13.6	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/05/2017	51.5	<1.0	0.19	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		03/28/2018	54.7	<1.0	0.22	<0.100	<0.100	<0.100	<0.100	<0.100	<0.520	<0.100	10.3 ^	<10.3	<10.3
		06/12/2018	32.6	<1.0	0.11	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		09/27/2018	70.1	<1.2	0.33	<0.120	<0.120	<0.120	<0.120	<0.120	<0.620	<0.120	<12.5 E	<12.5	<12.5

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2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-18D	MW-DUP-1	12/15/2016	201	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	178 ^	12.0	<10.0
		03/14/2017	200	<1.0	<0.100	1.2 ^	0.55 ^	0.64	0.19	0.50	1.0	<0.100	149 ^	<10.0	<10.0
		03/14/2017	203	<1.0	<0.100	0.28	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	149 ^	<10.0	<10.0
	MW-DUP-1	05/17/2017	341	<1.0	9.0	0.36 ^	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	281 ^	<10.0	<10.0
		05/17/2017	313	<1.0	9.2	0.34 ^	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	200 ^	10.6	<10.0
		07/26/2017	259	<1.0	10.5	0.17	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	68.8 ^	<10.0	<10.0
	MW-DUP-1	07/26/2017	123	<1.0	4.1	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/09/2017	408	<1.0	17.6	1.3 ^	0.62 ^	0.81	0.26	0.37	1.5	<0.100	244 ^	<10.0	<10.0
		10/09/2017	385	<1.0	17.1	1.5 ^	0.84 ^	0.98	0.50	0.55	1.7	0.40 *	226 ^	<10.0	<10.0
	MW-DUP-1	03/29/2018	197	<1.1	5.3	0.42 ^	<0.110	<0.110	<0.110	<0.110	<0.540	<0.110	91.3 ^	11.2	<10.8
		06/13/2018	27.6	1.0	0.81	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	11.7 ^	<10.0	<10.0
		09/27/2018	103	<1.1	4.0	0.18	<0.110	<0.110	<0.110	<0.110	<0.530	<0.110	71.2 ^	<10.5	<10.5
MW-19		12/14/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/15/2017	<1.0	<1.0	<0.100	<0.100	<0.100	0.11	0.11	0.13	<0.500	0.15	<10.0 E	<10.0	<10.0
		05/16/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/26/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/06/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		03/28/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-20		12/14/2016	110	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/14/2017	93.3	<1.0	0.11	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/15/2017	81.7	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/26/2017	34.3	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/04&12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/28/2018	84.2	<1.0	0.11	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		06/12&29/2018	18.2	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		09/26/2018	114	<1.0	0.16	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-20D		12/14/2016	129	<10.0	12.1	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	80.9 ^	<10.0	<10.0
		03/15/2017	78.5	<1.0	<0.100	0.43 ^	0.18	0.19	<0.100	0.21	<0.500	<0.100	57.1 ^	<10.0	<10.0
		05/17/2017	142	<1.0	3.6	0.45 ^	0.13	0.20	<0.100	<0.100	<0.500	<0.100	94.1 ^	<10.0	<10.0
		07/26/2017	110	<1.0	3.9	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	48.4 ^	<10.0	<10.0
		10/09/2017	163	<1.0	6.6	0.69 ^	0.24 ^	0.30	<0.100	0.15	0.77	<0.100	84.5 ^	<10.0	<10.0
		03/28/2018	166	<1.0	4.5	0.43 ^	0.12	0.20	<0.100	<0.100	<0.500	<0.100	72.8 ^	<10.0	<10.0
		06/12&29/2018	87.0	<1.0	3.1	0.19	<0.100	<0.100	<0.100	<0.100	<0.500	NA	59.3 ^	<10.0	<10.0
		09/26/2018	113	<1.0	3.9	0.35 ^	<0.100	0.13	<0.100	<0.100	<0.500	<0.100	62.0 ^	<10.0	<10.0

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Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.

All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).

Where low level CR<sup>16</sup> analysis was not performed, results are reported to the MDL

<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

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The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs

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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Semivolatile Organic Compounds (SVOCs) via USEPA Method 8270 Scan & 8270SIM												
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-Anthracene	Benzo(a)pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-flouranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	2,4-Dimethylphenol	Di-n-butyl-phthalate <sup>2</sup>
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			530	NE	1,800	0.3	0.2	2.5	NE	25	250	0.25	7.9	360	900
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-21		12/14/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/14/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/16/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/25/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/04&11/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		03/28/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		09/27/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-21D	MW-DUP-2	12/15/2016	53.9	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	32.5 ^	13.6	<10.0
		12/15/2016	46.5	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	29.2 ^	13.0	<10.0
		03/16/2017	43.6	1.6	1.8	0.12	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	35.7 ^	<10.0	<10.0
		05/17/2017	90.1	2.8	3.4	0.21	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	60.0 ^	<10.0	<10.0
		07/25/2017	4.1	<1.0	0.18	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/09/2017	20.1	<5.0	1.2	<0.500 E	<0.500 E	<0.500	<0.500	<0.500	<2.5	<0.500 E	16.7 ^	<10.0	<10.0
		03/28/2018	94.3	5.9	3.9	0.20	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	54.8 ^	20.4	<10.0
		06/12&29/2018	52.9	3.8	2.7	0.28	0.25 ^	0.47	0.17	0.23	<0.500	NA	40.3 ^	21.5	<10.0
		09/27/2018	97.6	5.5	4.9	0.30 ^	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	61.4 ^	19.2	<10.0
MW-22		12/14/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/14/2017	1.8	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/16/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/25/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/04&11/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		03/26/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		06/13&29/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		09/27/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-22D		12/14/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/15/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/16/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/26/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/04&11/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		03/26/2018	<1.1	<1.1	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.530	<0.110	<10.5 E	<10.5	<10.5

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<div></div>			Semivolatile Organic Compounds (SVOCs) via USEPA Method 8270 Scan & 8270SIM												
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-Anthracene	Benzo(a)pyrene	Benzo(b)-fluoranthene	Benzo(g,h,i)-perylene	Benzo(k)-flouranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	2,4-Dimethylphenol	Di-n-butyl-phthalate <sup>2</sup>
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			530	NE	1,800	0.3	0.2	2.5	NE	25	250	0.25	7.9	360	900
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-23		12/13/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/16/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/17/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/26/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/05/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		03/28/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-25D		12/13/2016	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/16/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/18/2017	<2.4	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/25/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/05/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		03/29/2018	<1.2	<1.2	<0.120	<0.120	<0.120	<0.120	<0.120	<0.120	<0.620	<0.120	<12.5 E	<12.5	<12.5
MW-26D	MW-DUP-2	01/12/2017	385	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	103 ^	<10.0	<10.0
		03/16/2017	168	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	70.9 ^	<10.0	<10.0
		03/16/2017	174	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	69.2 ^	<10.0	<10.0
	MW-DUP-2	05/17/2017	266	1.4	0.14	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	64.5 ^	<10.0	<10.0
		05/17/2017	282	1.4	0.17	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	79.5 ^	<10.0	<10.0
		07/26/2017	214	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	27.5 ^	<10.0	<10.0
	MW-DUP-2	07/26/2017	56.2	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	15.8 ^	<10.0	<10.0
		10/13/2017	221	1.2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	58.9 ^	<10.0	<10.0
		10/13/2017	208	1.4	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	65.4 ^	<10.0	<10.0
	MW-DUP-2	03/29/2018	193	1.6	<0.120	<0.120	<0.120	<0.120	<0.120	<0.120	<0.600	<0.120	67.5 ^	<11.9	<11.9
		03/29/2018	206	<1.1	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.530	<0.110	68.7 ^	<10.5	<10.5
		06/13/2018	99.3	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	45.5 ^	<10.0	<10.0
	DUP-1	06/13/2018	84.4	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	37.2 ^	<10.0	<10.0
		09/27/2018	194	1.3	0.32	<0.120	<0.120	<0.120	<0.120	<0.120	<0.600	<0.120	71.9 ^	<11.9	<11.9
	MWDUP-1	09/27/2018	<1.0 Z	<1.0 Z	<0.100 Z	<0.100 Z	<0.100 Z	<0.100 Z	<0.100 Z	<0.100 Z	<0.500 Z	<0.100 Z	<10.0 Z	<10.0 Z	<10.0 Z

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2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-27D		01/12/2017	<10.0	<10.0	<10.0	<10.0 E	<10.0 E	<10.0 E	<10.0	<10.0	<10.0	NA	<10.0 E	<10.0	<10.0
		03/16/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/17/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/26/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/05/2017	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		03/28/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.510	<0.100	<10.2 E	<10.2	<10.2
		06/12&28/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		09/27/2018	<1.0	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
MW-28D															
		03/15/2017	31.7	<1.0	0.12	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		05/17/2017	30.1	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		07/26/2017	15.3	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		10/06/2017	49.4	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		03/29/2018	31.7	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0
		06/13&29/2018	36.5	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	NA	<10.0 E	<10.0	<10.0
		09/26/2018	47.8	<1.0	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.500	<0.100	<10.0 E	<10.0	<10.0

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FORMER COLUMBUS WOOD TREATING

<div></div>			SVOCs via USEPA Method 8270 Scan & 8270SIM (cont.)													
			4,6-Dinitro-2-methyl phenol	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	2-Methylphenol (o-cresol)	Pentachlorophenol <sup>1</sup>	Pentachlorophenol (as pesticide via 8151)	Phenanthrene	Phenol	Pyrene	All Other Analyzed SVOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			1.5	800	290	2.5	11	36	1.7	930	1	1	NE	5,800	120	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	110	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	460	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4		12/15/2016	<10.0 E	14.0	107	<10.0 E	45.2 ^	<10.0	35.8 ^	<10.0	<3.4 E	NA	37.3	<10.0	<10.0	BRL
		03/15/2017	<50.0 E	5.5	73.2	<0.100	35.1 ^	1.3	37.4 ^	<10.0	<3.4 E	12.1 ^	16.3	<10.0	3.3	BRL
		05/16/2017	<50.0 E	6.0	61.8	<0.100	25.1 ^	<1.0	14.9 ^J	<10.0	<3.4 E	4.7 ^	16.8	<10.0	2.7	BRL
		07/25/2017	<50.0 E	2.2	18.0	<0.100	8.7	<1.0	5.2 ^	<10.0	<3.4 E	<1.0	2.5	<10.0	1.4	BRL
		10/04/2017	<83.3 E	26.2	92.1	0.78	24.0 ^	<1.7	<1.7	<16.7	<3.4 E	<1.0	20.7	<16.7	16.3	BRL
		03/27/2018	<20.0 E	5.6	66.5	<0.100	31.8 ^	<1.0	8.2 ^	<10.0	<50.0 E	14.5 ^	7.2	<10.0	3.0	BRL
		06/12/2018	<20.0 E	5.6	68.1	<0.100	20.1 ^	<1.0	41.9 ^	<10.0	<50.0 E	<1.1 E	2.9	<10.0	2.7	BRL
		09/26/2018	<21.5 E	4.6	50.4	<0.110	14.4 ^	<1.1	2.4 ^	<10.8	<53.8 E	<1.0	3.8	<10.8	2.3	BRL
MW-6		12/15/2016	<10.0 E	34.9	173	<10.0 E	55.0 ^	<10.0	24.1 ^	<10.0	<3.4 E	NA	20.4	<10.0	19.8	BRL
		03/15/2017	<50.0 E	3.7	75.4	<0.100	59.9 ^	27.4	887 ** ^	<10.0	<3.4 E	<1.0	10.9	<10.0	2.1	BRL
		05/16/2017	<50.0 E	<10.0	65.5	<1.0	37.4 ^	17.8 J	607 ** ^	28.2	1,770 ^	1,870 ^	<10.0	33.8	<10.0	BRL
		07/24/2017	<50.0 E	3.4	66.1	<0.100	31.9 ^	25	1,130 ** ^	<10.0	13.3 ^	81.1 ^	11.0	<10.0	1.8	BRL
		10/04/2017	<50.0 E	16.3	238	0.12	6.3	<1.0	<1.0	<10.0	<3.4 E	<1.1 E	8.1	<10.0	9.1	BRL
		03/27/2018	23.5 *	7.0	88.6	<0.100	104 ^	79.8 ^	1,580 ** ^	<10.4	<52.1 E	14.6 ^	14.0	<10.4	2.9	BRL
		06/12/2018	<20.0 E	6.8	94.2	0.13	59.1 ^	17.8	353 * ^	<10.0	<50.0 E	<1.0	15.7	<10.0	3.3	BRL
		09/26/2018	<20.0 E	7.3	148	<0.100	61.7 ^	42.3 ^	977 ** ^	<10.0	<50.0 E	1.0 ^	13.4	96.9	3.3	BRL
MW-7D		12/13/2016	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/14/2017	<50.0 E	3.5	1.0	<0.100	1.1	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	2.7	BRL
		05/16/2017	<50.0 E	3.6	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	2.3	BRL
		07/24/2017	<50.0 E	1.4	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	1.2	BRL
		10/03&11/2017	NA	3.6	2.0	<0.100	<1.0	<1.0	<1.0	<10.4	<3.4 E	NA	<1.0	<10.4	2.5	BRL
		03/27/2018	<20.0 E	2.7	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	2.0	BRL
MW-7DD		12/14/2016	<10.0 E	58.0	155	<10.0 E	410 ^	286 ^	1,140 ** ^	<10.0	<3.4 E	NA	210	<10.0	38.8	BRL
		03/16/2017	<50.0 E	11.5	137	<0.100	294 ^	161 ^	894 ** ^	<10.0	<3.4 E	<1.1 E	135	<10.0	7.8	BRL
		05/18/2017	<50.0 E	14.0	208	<0.100	427 ^	231 ^J	1,590 ** ^J	<10.0	<3.4 E	NA	183	<10.0	8.4	BRL
		07/26/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/04&12/2017	NA	17.5	137	0.18	152 ^	<1.1	1.3	<11.2	<3.4 E	NA	126	<11.2	10.7	BRL
		03/28/2018	<22.0 E	8.8	98.7	<0.110	310 ^	130 ^	1,030 ** ^	<11.0	<54.9 E	NA	82.4	<11.0	4.5	BRL
		06/12/2018	<20.0 E	9.9	120	<0.100	285 ^	132 ^	996 ** ^	<10.0	<50.0 E	NA	99.6	<10.0	5.3	BRL
		09/26/2018	<20.0 E	13.4	157	<0.100	346 ^	146 ^	1,010 ** ^	<10.0	<50.0 E	NA	153	2,620	7.8	BRL

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide

E = Reporting limit (RL) exceeds closure level due to dilution and/or method limitations.

NE = Not Established; NA = Not Analyzed; BRL = Below Laboratory Reporting Limits

J = Value is estimated based on quality control criteria; MDL = Method Detection Limit

USEPA = United States Environmental Protection Agency

Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.

All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).

Where low level CR<sup>16</sup> analysis was not performed, results are reported to the MDL

<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

<sup>2</sup> = Common Laboratory Artifact

The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs


\* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)

\*\* = At or Above IDEM RCG 2018 Commercial/Industrial VIGWSLs

Z = Value is unusable based on anlytical verification. Presented for reference only.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			SVOCs via USEPA Method 8270 Scan & 8270SIM (cont.)													
			4,6-Dinitro-2-methyl phenol	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	2-Methylphenol (o-cresol)	Pentachlorophenol <sup>1</sup>	Pentachlorophenol (as pesticide via 8151)	Phenanthrene	Phenol	Pyrene	All Other Analyzed SVOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			1.5	800	290	2.5	11	36	1.7	930	1	1	NE	5,800	120	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	110	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	460	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-9	MW-DUP-1	12/15/2016	<10.0 E	34.6	83.9	<10.0 E	112 ^	43.6 ^	312 *,^	<10.0	<3.4 E	NA	103	<10.0	22	BRL
		03/15/2017	<50.0 E	7.6	51.9	0.18	69.6 ^	49.1 ^	935 **,^	<10.0	<3.4 E	NA	41.6	<10.0	5.2	BRL
		05/18/2017	<50.0 E	6.9	63.3	<0.100	83.2 ^	34.5	895 **,^	<10.0	<3.4 E	NA	45.2	<10.0	3.9	BRL
		07/25/2017	<50.0 E	2.0	11.5	0.13	15.2 ^	2.6	75.4 ^	<10.0	<3.4 E	<1.0	8.9	<10.0	1.3	BRL
		10/04&12/2017	NA	8.5	33.0	0.20	22.8 ^	<1.1	<1.1	<10.9	<3.4 E	NA	13.5	<10.9	5.0	BRL
		03/28/2018	<20.0 E	10.6	84.3	<0.100	162 ^	24.6	1,230 **,^	<10.0	<50.0 E	NA	55.5	<10.0	5.8	BRL
		03/28/2018	<20.0 E	10.9	94.6	0.11	193 ^	19.2	1,270 **,^	<10.0	<50.0 E	NA	67.3	<10.0	6.2	BRL
		06/12/2018	<20.0 E	6.9	33.9	<0.100	26.0 ^	1.4	45.3 ^	<10.0	<50.0 E	NA	27.3	<10.0	3.3	BRL
		09/26/2018	<20.0 E	5.8	23.3	<0.100	25.4 ^	3.6	99.2 ^	<10.0	<50.0 E	NA	22.8	<10.0	3.4	BRL
MW-10		12/15/2016	<10.0 E	37.2	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	20.9	BRL
		03/13/2017	<50.0 E	18.4	<1.0	0.39	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	10.7	BRL
		05/15/2017	<50.0 E	14.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	5.5	BRL
		07/25/2017	<50.0 E	8.8	<1.0	<0.100	<1.0	<1.0	8.3 ^	<10.0	<3.4 E	NA	<1.0	<10.0	5.6	BRL
		10/03&12/2017	NA	8.5	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/27/2018	<20.0 E	20.6	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	11.2	BRL
		06/12/2018	<20.0 E	16.2	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	8.0	BRL
		09/26/2018	<20.0 E	15.6	1.2	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	6.6	BRL
MW-11		12/14/2016	<10.0 E	<10.0	134	<10.0 E	180 ^	123 ^	<10.0 E	<10.0	<3.4 E	NA	130	<10.0	<10.0	BRL
		03/14/2017	<50.0 E	2.7	87.3	<0.100	135 ^	87.1 ^	4.6 ^	<10.0	<3.4 E	NA	85.0	<10.0	<1.0	BRL
		05/17/2017	<50.0 E	2.9	83.5	<0.100	171 ^J	81.4 ^	4.2 ^J	<10.0	<3.4 E	NA	81.6	<10.0	<1.0	BRL
		07/25/2017	<50.0 E	1.8	59.1	<0.100	97.8 ^	63 ^	2.3 ^	<10.0	<3.4 E	NA	58.8	<10.0	<1.0	BRL
		10/05&12/2017	NA	3.5	110	<0.100	164 ^	99.7 ^	3.4 ^	<10.0	<3.4 E	NA	103	<10.0	<1.0	BRL
		03/28/2018	<20.0 E	3.3	86.3	<0.100	141 ^	90.2 ^	4.4 ^	<10.0	<50.0 E	NA	72.3	<10.0	<1.0	BRL
		06/12/2018	<20.0 E	2.9	75.6	<0.100	91.9 ^	57.9 ^	2.0 ^	<10.0	<50.0 E	NA	78.0	<10.0	<1.0	BRL
		09/26/2018	<20.0 E	4.2	98.0	<0.100	141 ^	87.5 ^	3.4 ^	<10.0	<50.0 E	NA	94.4	39.5	1.3	BRL
MW-12		12/14/2016	<10.0 E	<10.0	46.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/14/2017	<50.0 E	<1.0	10.5	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/15/2017	<50.0 E	<1.0	8.2	<0.100	<3.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/25/2017	<50.0 E	<1.0	1.3	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/03&12/2017	NA	<1.0	22.8	<0.100	3.6	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/27/2018	<21.5 E	<1.1	5.5	<0.110	2.4	<1.1	<1.1	<10.8	<53.8 E	NA	<1.1	<10.8	<1.1	BRL

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<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

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2018 IDEM RCG RESIDENTIAL TAP SLs (^)			1.5	800	290	2.5	11	36	1.7	930	1	1	NE	5,800	120	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	110	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	460	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-14D	MW-DUP-1	12/14/2016	<10.0 E	<10.0	96.4	<10.0 E	94.5 ^	50.8 ^	189 *,^	<10.0	<3.4 E	NA	76.1	<10.0	<10.0	BRL
		12/14/2016	<10.0 E	<10.0	97.9	<10.0 E	95.1 ^	51.0 ^	158 *,^	<10.0	<3.4 E	NA	76.2	<10.0	<10.0	BRL
		03/14/2017	<50.0 E	6.5	119	<0.100	112 ^	50.2 ^	273 *,^	<10.0	<3.4 E	NA	88.6	<10.0	4.2	BRL
		05/16/2017	<50.0 E	44.6	99.4	0.72	66.1 ^	32.4	110 *,^	<10.0	<3.4 E	<1.1 E	128	<10.0	24.5	BRL
		07/25/2017	<50.0 E	<1.0	5.6	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		10/06&11/2017	<50.0 E	10.0	126	0.15	88.7 ^	3.0	<1.0	<10.0	<3.4 E	<1.0	89.9	<10.0	5.8	BRL
		03/27/2018	<20.0 E	5.3	76.0	<0.100	59.7 ^	<1.0	<1.0	<10.0	<50.0 E	<1.1 E	43.1	<10.0	3.1	BRL
		06/12/2018	<20.0 E	4.6	60.1	<0.100	49.4 ^	18.8	69.6 ^	<10.0	<50.0 E	<1.0	45.3	<10.0	2.5	BRL
		09/26/2018	<20.0 E	10.9	134	<0.100	106 ^	43.6 ^	146 *,^	<10.0	<50.0 E	<1.0	97.0	<10.0	6.5	BRL
MW-17		12/15/2016	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/15/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		05/17/2017	<50.0 E	<1.0	<1.0	<0.100	<3.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		10/05/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/26/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		06/12/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	<1.0	<1.0	<10.0	<1.0	BRL
		09/26/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	<1.1 E	<1.0	<10.0	<1.0	BRL
MW-18		12/13/2016	<10.0 E	<10.0	<10.0	<10.0 E	89.5 ^	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/15/2017	<50.0 E	<1.0	6.5	<0.100	84.5 ^	2.7	2.8 ^	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/16/2017	<50.0 E	<1.0	8.2	<0.100	68.9 ^	1.1 J	1.8 ^J	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/25/2017	<50.0 E	<1.0	1.4	<0.100	44.3 ^	1.1	1.3	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/05/2017	<50.0 E	<1.0	11.8	<0.100	133 ^	5.2	4.0 ^	<10.0	<3.4 E	NA	1.5	<10.0	<1.0	BRL
		03/28/2018	<20.6 E	<1.0	17.5	<0.100	101 ^	4.7	3.2 ^	<10.3	<51.5 E	NA	<1.0	<10.3	<1.0	BRL
		06/12/2018	<20.0 E	<1.0	6.7	<0.100	78.7 ^	5.8	1.6	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		09/27/2018	<25.0 E	<1.2	20.7	<0.120	92.7 ^	10.2	1.9 ^	<12.5	<62.5 E	NA	<1.2	<12.5	<1.2	BRL

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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			SVOCs via USEPA Method 8270 Scan & 8270SIM (cont.)													
			4,6-Dinitro-2-methyl phenol	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	2-Methylphenol (o-cresol)	Pentachlorophenol <sup>1</sup>	Pentachlorophenol (as pesticide via 8151)	Phenanthrene	Phenol	Pyrene	All Other Analyzed SVOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			1.5	800	290	2.5	11	36	1.7	930	1	1	NE	5,800	120	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	110	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	460	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-18D	MW-DUP-1	12/15/2016	<10.0 E	13.5	125	<10.0 E	190 ^	283 ^	3,250 **,^	<10.0	<3.4 E	NA	98.9	<10.0	11.0	BRL
		03/14/2017	<50.0 E	8.8	120	0.19	163 ^	216 ^	1,710 **,^	<10.0	<3.4 E	NA	88.4	<10.0	6.5	BRL
		03/14/2017	<50.0 E	7.3	122	<0.100	153 ^	209 ^	1,660 **,^	<10.0	<3.4 E	NA	96.1	<10.0	4.7	BRL
	MW-DUP-1	05/17/2017	<50.0 E	9.3	207	<0.100	277 ^	382 ^	3,310 **,^J	<10.0	<3.4 E	<1.0	140	<10.0	5.1	BRL
		05/17/2017	<50.0 E	9.3	196	<0.100	261 ^	366 ^	2,760 **,^J	<10.0	<3.4 E	<1.0	134	<10.0	5.2	BRL
		07/26/2017	<50.0 E	7.0	151	<0.100	204 ^	253 ^	1,930 **,^	<10.0	<3.4 E	NA	110	<10.0	4.3	BRL
	MW-DUP-1	07/26/2017	<50.0 E	2.6	61.4	<0.100	64.7 ^	82.8 ^	1,240 **,^	<10.0	<3.4 E	NA	44.2	<10.0	1.6	BRL
		10/09/2017	<50.0 E	17.7	250	0.3	373 ^	504 ^	3,510 **,^	<10.0	<3.4 E	NA	182	<10.0	9.6	BRL
		10/09/2017	<50.0 E	17.4	239	0.5	351 ^	499 ^	3,300 **,^	<10.0	<3.4 E	NA	174	<10.0	9.2	BRL
	MW-DUP-1	03/29/2018	<21.5 E	5.3	94.3	<0.110	206 ^	285 ^	2,010 **,^	<10.8	<53.8 E	NA	64.8	<10.8	3.2	BRL
		06/13/2018	<20.0 E	1.6	12.9	<0.100	9.3	4.4	60.9 ^	<10.0	<50.0 E	NA	2.9	<10.0	<1.0	BRL
		09/27/2018	<21.1 E	3.8	64.8	<0.110	76.9 ^	166 ^	1,260 **,^	<10.5	<52.6 E	NA	54.1	<10.5	2.0	BRL
MW-19		12/14/2016	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/15/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	1.6	<10.0	<1.0	BRL
		05/16/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/06/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/28/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
MW-20		12/14/2016	<10.0 E	<10.0	13.3	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/14/2017	<50.0 E	<1.0	10.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/15/2017	<50.0 E	<1.0	5.8	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	2.4	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/04&12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/28/2018	<20.0 E	<1.0	4.7	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		06/12&29/2018	NA	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		09/26/2018	<20.0 E	<1.0	4.7	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
MW-20D		12/14/2016	<10.0 E	37.0	83.5	<10.0 E	83.5 ^	107 ^	738 **,^	<10.0	<3.4 E	NA	117	<10.0	23.9	BRL
		03/15/2017	<50.0 E	3.9	45.6	<0.100	50.0 ^	49.1 ^	623 **,^	<10.0	<3.4 E	NA	38.9	<10.0	2.7	BRL
		05/17/2017	<50.0 E	5.3	64.9	<0.100	75.4 ^	89.7 ^	1,360 **,^	<10.0	<3.4 E	<1.0	50.4	<10.0	3.2	BRL
		07/26/2017	<50.0 E	3.0	54.2	<0.100	54.3 ^	64.6 ^	1,230 **,^	<10.0	<3.4 E	<1.1 E	40.0	<10.0	1.9	BRL
		10/09/2017	<50.0 E	8.6	85.7	<0.100	123 ^	142 ^	1,380 **,^	<10.0	<3.4 E	<1.0	72.3	<10.0	5.1	BRL
		03/28/2018	<20.0 E	5.2	70.9	<0.100	129 ^	162 ^	1,850 **,^	<10.0	<50.0 E	<1.1 E	47.4	<10.0	2.7	BRL
		06/12&29/2018	NA	4.0	47.7	<0.100	75.7 ^	96.3 ^	916 **,^	<10.0	<50.0 E	<1.0	38.8	<10.0	2.2	BRL
		09/26/2018	<20.0 E	4.9	57.0	<0.100	63.5 ^	95.4 ^	1,080 **,^	<10.0	<50.0 E	<1.0	46.4	<10.0	2.9	BRL

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2018 IDEM RCG RESIDENTIAL TAP SLs (^)			1.5	800	290	2.5	11	36	1.7	930	1	1	NE	5,800	120	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	110	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	460	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-21		12/14/2016	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/14/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/16/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/25/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		10/04&11/2017	NA	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/28/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-DUP-2  MW-21D		12/15/2016	<10.0 E	11.7	37.8	<10.0 E	46.3 ^	63.7 ^	1,020 **,^	<10.0	<3.4 E	NA	33.2	<10.0	<10.0	BRL
		12/15/2016	<10.0 E	11.1	32.0	<10.0 E	60.9 ^	83.6 ^	1,310 **,^	<10.0	<3.4 E	NA	30.5	<10.0	<10.0	BRL
		03/16/2017	<50.0 E	2.5	26.1	<0.100	37.7 ^	43.1 ^	745 **,^	<10.0	<3.4 E	<1.0	21.7	<10.0	1.6	BRL
		05/17/2017	<50.0 E	5.1	53.4	<0.100	65.1 ^	83.1 ^	1,550 **,^	<10.0	<3.4 E	<1.0	44.1	<10.0	2.8	BRL
		07/25/2017	<50.0 E	<1.0	1.6	<0.100	2.8	<1.0	5.3 ^	<10.0	<3.4 E	<1.0	1.1	<10.0	<1.0	BRL
		10/09/2017	<50.0 E	<5.0	13.0	<0.500	21.2 ^	<5.0	121 *,^	<10.0	<3.4 E	<1.0	13.6	<10.0	<5.0	BRL
		03/28/2018	<20.0 E	5.9	58.8	<0.100	86.0 ^	208 ^	2,000 **,^	<10.0	<50.0 E	<1.1 E	40.6	13.3	2.8	BRL
		06/12&29/2018	NA	3.7	37.9	0.18	42.1 ^	73.1 ^	908 **,^	<10.0	<50.0 E	<1.0	27.2	12.2	2.0	BRL
		09/27/2018	<20.0 E	5.8	60.5	<0.100	68.8 ^	187 ^	1,810 **,^	<10.0	<50.0 E	<1.1 E	51.6	10.6	3.1	BRL
MW-22		12/14/2016	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/14/2017	<50.0 E	<1.0	1.0	<0.100	1.7	2.2	13.6 ^	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/16/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/25/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/04&11/2017	NA	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/26/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		06/13&29/2018	NA	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		09/27/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
MW-22D		12/14/2016	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/15/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/16/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/04&11/2017	NA	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		03/26/2018	<21.1 E	<1.1	<1.1	<0.110	<1.1	<1.1	<1.1	<10.5	<52.6 E	NA	<1.1	<10.5	<1.1	BRL

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2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	110	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	460	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-23		12/13/2016	<50.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/16/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/17/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/05/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/28/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
MW-25D		12/13/2016	<50.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/16/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		05/18/2017	<50.0 E	<1.0	<1.0	<0.100	<3.0	<3.3	<17.5 E	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		07/25/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		10/05/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	<1.0	<1.0	<10.0	<1.0	BRL
		03/29/2018	<25.0 E	<1.2	<1.2	<0.120	<1.2	<1.2	<1.2	<12.5	<62.5 E	<1.1 E	<1.2	<12.5	<1.2	BRL
MW-26D	MW-DUP-2	01/12/2017	<50.0 E	<10.0	136	<10.0 E	566 ^	567 ^	4,130 **,^	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/16/2017	<50.0 E	<1.0	70.4	<0.100	205 ^	217 ^	1,550 **,^	<10.0	<3.4 E	<1.0	2.2	<10.0	<1.0	BRL
		03/16/2017	<50.0 E	<1.0	68.2	<0.100	203 ^	215 ^	1,690 **,^	<10.0	<3.4 E	<1.0	2	<10.0	<1.0	BRL
	MW-DUP-2	05/17/2017	<50.0 E	<1.0	86.9	<0.100	309 ^	347 ^	2,050 **,^J	<10.0	<3.4 E	<1.0	3.9	<10.0	<1.0	BRL
		05/17/2017	<50.0 E	<1.0	98.3	<0.100	334 ^	371 ^	2,360 **,^J	<10.0	<3.4 E	NA	4.3	<10.0	<1.0	BRL
	MW-DUP-2	07/26/2017	<50.0 E	<1.0	93.2	<0.100	235 ^	268 ^	1,650 **,^	<10.0	<3.4 E	<1.2 E	5.4	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	23.6	<0.100	55.4 ^	64.0 ^	659 **,^	<10.0	<3.4 E	<1.2 E	1.7	<10.0	<1.0	BRL
		10/13/2017	<50.0 E	<1.0	73.5	<0.100	360 ^	377 ^	2,070 **,^	<10.0	<3.4 E	<1.0	4.0	<10.0	<1.0	BRL
	MW-DUP-2	10/13/2017	<50.0 E	<1.0	83.6	<0.100	332 ^	349 ^	1,920 **,^	<10.0	<3.4 E	<1.0	4.6	<10.0	<1.0	BRL
		03/29/2018	<23.8 E	<1.2	92.5	<0.120	273 ^	364 ^	1,280 **,^	<11.9	<59.5 E	<1.1 E	6.2	<11.9	<1.2	BRL
	MW-DUP-2	03/29/2018	<21.1 E	<1.1	87.5	<0.110	250 ^	330 ^	1,360 **,^	<10.5	<52.6 E	<1.1 E	6.7	<10.5	<1.1	BRL
		06/13/2018	<20.0 E	<1.0	52.2	<0.100	116 ^	158 ^	508 **,^	<10.0	<50.0 E	<1.0	3.7	<10.0	<1.0	BRL
	DUP-1	06/13/2018	<20.0 E	<1.0	41.9	<0.100	115 ^	159 ^	529 **,^	<10.0	<50.0 E	<1.0	3.0	<10.0	<1.0	BRL
		09/27/2018	<23.8 E	<1.2	85.6	<0.120	250 ^	356 ^	1,020 **,^	<11.9	<59.5 E	<1.0	7.3	<11.9	<1.2	BRL
	MWDUP-1	09/27/2018	<20.0 Z	<1.0 Z	<1.0 Z	<0.100 Z	<1.0 Z	<1.0 Z	<1.0 Z	<10.0 Z	<50.0 Z	<1.1 E	<1.0 Z	64.4 Z	<1.0 Z	BRL

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Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.

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Where low level CR<sup>16</sup> analysis was not performed, results are reported to the MDL

<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

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The following denote the symbol and color of screening level exceedances:

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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			SVOCs via USEPA Method 8270 Scan & 8270SIM (cont.)													
			4,6-Dinitro-2-methyl phenol	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	2-Methylphenol (o-cresol)	Pentachlorophenol <sup>1</sup>	Pentachlorophenol (as pesticide via 8151)	Phenanthrene	Phenol	Pyrene	All Other Analyzed SVOCs
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			1.5	800	290	2.5	11	36	1.7	930	1	1	NE	5,800	120	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	110	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	460	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-27D		01/12/2017	<50.0 E	<10.0	<10.0	<10.0 E	<10.0	<10.0	<10.0 E	<10.0	<3.4 E	NA	<10.0	<10.0	<10.0	BRL
		03/16/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	6.9 ^	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		05/17/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/05/2017	<50.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/28/2018	<20.4 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.2	<51.0 E	NA	<1.0	<10.2	<1.0	BRL
		06/12&28/2018	NA	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		09/27/2018	<20.0 E	<1.0	<1.0	<0.100	<1.0	<1.0	<1.0	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
MW-28D		03/15/2017	<50.0 E	<1.0	<1.0	<0.100	52.8 ^	8.7	42.9 ^	<10.0	<3.4 E	<1.1 E	<1.0	<10.0	<1.0	BRL
		05/17/2017	<50.0 E	<1.0	<1.0	<0.100	19.8 ^	<1.0	<1.0	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		07/26/2017	<50.0 E	<1.0	<1.0	<0.100	5.2	1.3	8.0 ^	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		10/06/2017	<50.0 E	<1.0	<1.0	<0.100	95.9 ^	33.6	236 *;^	<10.0	<3.4 E	NA	<1.0	<10.0	<1.0	BRL
		03/29/2018	<20.0 E	<1.0	<1.0	<0.100	5.6	<1.0	2.2 ^	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		06/13&29/2018	NA	<1.0	<1.0	<0.100	46.4 ^	9.2	63.9 ^	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL
		09/26/2018	<20.0 E	<1.0	<1.0	<0.100	61.0 ^	17.3	2.4 ^	<10.0	<50.0 E	NA	<1.0	<10.0	<1.0	BRL

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USEPA = United States Environmental Protection Agency  
Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.  
All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).  
Where low level CR<sup>26</sup> analysis was not performed, results are reported to the MDL  
<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.  
<sup>2</sup> = Common Laboratory Artifact

The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs


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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Total Metals via USEPA Method 6010 & 7470 & 7196										
			Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Cadmium	Chromium	Hexavalent Chromium (via 7196/7199)	Cobalt	Lead	Vanadium	All Other Analyzed Metals
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			10	10	2,000	NE	NE	100	0.35	6	15	86	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	29.8 ^	NA	156	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	20.0	BRL
		05/16/2017	20.3 ^	NA	104	NA	2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/25/2017	21.8 ^	NA	129	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/04/2017	19.8 ^	NA	124	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/27/2018	20.3 ^	NA	178	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12/2018	12.7 ^	<5.0	175	NA	<2.0	<10.0	<0.150	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-6		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	32.1 ^	NA	698	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		05/16/2017	71.2 ^	NA	1,130	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/24/2017	42.2 ^	NA	700	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/04/2017	<10.0	NA	148	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/27/2018	35.7 ^	NA	636	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12/2018	29.8 ^	13.3 ^	481	NA	<2.0	<10.0	<0.150	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	20.2 ^	17.6 ^	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-7D		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<10.0	NA	149	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	17.3	BRL
		05/16/2017	<10.0	NA	163	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/24/2017	<10.0	NA	165	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/03&11/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/27/2018	<10.0	NA	156	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
MW-7DD		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<10.0	NA	134	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	18.8	BRL
		05/18/2017	<10.0	NA	160	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	12.8	BRL
		07/26/2017	<10.0	NA	138	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/04&12/2017	<10.0	NA	154	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	<10.0	NA	132	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12/2018	<10.0	NA	129	NA	<2.0	<10.0	<0.150	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA

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FORMER COLUMBUS WOOD TREATING

<div></div>			Total Metals via USEPA Method 6010 & 7470 & 7196											
			Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Cadmium	Chromium	Hexavalent Chromium (via 7196/7199)	Cobalt	Lead	Vanadium	All Other Analyzed Metals	
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			10	10	2,000	NE	NE	100	0.35	6	15	86	Varies	
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies	
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies	
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-9	MW-DUP-1	12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		03/15/2017	17.9 ^	NA	165	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	19.7	BRL	
		05/18/2017	23.7 ^	NA	211	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		07/25/2017	10.8 ^	NA	134	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		10/04&12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		03/28/2018	22.3 ^	NA	110	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		03/28/2018	21.5 ^	NA	111	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		06/12/2018	<10.0	<5.0	113	NA	<2.0	<10.0	<0.150	<10.0 E	<10.0	<10.0	BRL	
09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA	NA		
MW-10		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/13/2017	<10.0	NA	73.0	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	16.5	BRL	
		05/15/2017	<10.0	NA	102	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		07/25/2017	<10.0	NA	80.7	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		10/03&12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/27/2018	<10.0	NA	85.4	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		06/12/2018	<10.0	NA	84.5	NA	<2.0	<10.0	<0.150	<10.0 E	<10.0	<10.0	BRL	
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA	NA
MW-11		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	32.9 ^	NA	221	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	19.2	BRL	
		05/17/2017	32.3 ^	NA	247	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		07/25/2017	29.7 ^	NA	235	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		10/05&12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/28/2018	25.9 ^	NA	251	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		06/12/2018	26.6 ^	5.9	203	NA	<2.0	<10.0	<0.150	<10.0 E	<10.0	<10.0	BRL	
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA	NA
MW-12		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<10.0	NA	424	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	16.5	BRL	
		05/15/2017	<10.0	NA	476	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		07/25/2017	<10.0	NA	553	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	
		10/03&12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/27/2018	<10.0	NA	547	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL	

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<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

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The following denote the symbol and color of screening level exceedances:

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<div></div>			Total Metals via USEPA Method 6010 & 7470 & 7196										
			Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Cadmium	Chromium	Hexavalent Chromium (via 7196/7199)	Cobalt	Lead	Vanadium	All Other Analyzed Metals
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			10	10	2,000	NE	NE	100	0.35	6	15	86	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-14D	MW-DUP-1	12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<10.0	NA	176	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	18.0	BRL
		05/16/2017	<10.0	NA	256	NA	<2.0	138 ^	<10.0 E	10.1 ^	31.8 ^	38.3	BRL
		07/25/2017	<10.0	NA	182	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/06&11/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/27/2018	<10.0	NA	200	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12/2018	<10.0	<5.0	183	180	<2.0	<10.0	<0.150	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-17		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<10.0	NA	191	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	19.7	BRL
		05/17/2017	11.9 ^	NA	219	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	10.8 ^	NA	181	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/05/2017	<10.0	NA	164	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/26/2018	11.2 ^	NA	290	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12/2018	<10.0	<5.0	184	NA	<2.0	<10.0	<0.060	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-18		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	19.1 ^	NA	363	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	18.5	BRL
		05/16/2017	16.6 ^	NA	331	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/25/2017	10.5 ^	NA	300	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/05/2017	13.4 ^	NA	334	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	14.9 ^	NA	364	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12/2018	12.0 ^	<5.0	332	NA	<2.0	<10.0	<0.060	<10.0 E	<10.0	<10.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA

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J = Value is estimated based on quality control criteria; MDL = Method Detection Limit  
USEPA = United States Environmental Protection Agency  
Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.  
All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).  
Where low level CR<sup>16</sup> analysis was not performed, results are reported to the MDL  
<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.  
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The following denote the symbol and color of screening level exceedances:  
^ = At or Above IDEM RCG 2018 Residential Tap Water SLs  
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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Total Metals via USEPA Method 6010 & 7470 & 7196										
			Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Cadmium	Chromium	Hexavalent Chromium (via 7196/7199)	Cobalt	Lead	Vanadium	All Other Analyzed Metals
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			10	10	2,000	NE	NE	100	0.35	6	15	86	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-18D	MW-DUP-1	12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<10.0	NA	227	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	19.6	BRL
		03/14/2017	<10.0	NA	225	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	17.4	BRL
	MW-DUP-1	05/17/2017	<10.0	NA	234	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		05/17/2017	<10.0	NA	238	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	<10.0	NA	220	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
	MW-DUP-1	07/26/2017	<10.0	NA	223	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/09/2017	<10.0	NA	222	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/09/2017	<10.0	NA	219	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
	MW-DUP-1	03/29/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		06/13/2018	<10.0	NA	199	NA	<2.0	<10.0	<0.060	<10.0 E	<10.0	<10.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-19		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<10.0	NA	175	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	19.3	BRL
		05/16/2017	<10.0	NA	136	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	<10.0	NA	139	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/06/2017	<10.0	NA	135	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	<10.0	NA	130	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
MW-20		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	18.9 ^	NA	138	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	18.5	BRL
		05/15/2017	11.7 ^	NA	188	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	<10.0	NA	239	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/04&12/2017	14.8 ^	NA	123	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	14.6 ^	NA	136	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12&29/2018	12.8 ^	<5.0	137	NA	<2.0	<10.0	0.140	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-20D		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<10.0	NA	180	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	17.9	BRL
		05/17/2017	<10.0	NA	192	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	<10.0	NA	190	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/09/2017	<10.0	NA	186	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	<10.0	NA	197	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12&29/2018	<10.0	NA	188	NA	<2.0	<10.0	0.147	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA

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USEPA = United States Environmental Protection Agency

Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.

All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).

Where low level CR<sup>16</sup> analysis was not performed, results are reported to the MDL

<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.

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The following denote the symbol and color of screening level exceedances:

^ = At or Above IDEM RCG 2018 Residential Tap Water SLs


\* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)

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TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER  
ANALYTICAL RESULTS  
FORMER COLUMBUS WOOD TREATING

<div></div>			Total Metals via USEPA Method 6010 & 7470 & 7196										
			Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Cadmium	Chromium	Hexavalent Chromium (via 7196/7199)	Cobalt	Lead	Vanadium	All Other Analyzed Metals
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			10	10	2,000	NE	NE	100	0.35	6	15	86	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-21		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<10.0	NA	83.6	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	19.3	BRL
		05/16/2017	<10.0	NA	86.6	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/25/2017	<10.0	NA	90.3	NA	<2.0	22.9	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/04&11/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/28/2018	<10.0	NA	87.0	NA	<2.0	13.5	10.0 ^	<10.0 E	<10.0	<10.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	12.3 ^	NA	NA	NA	NA	NA
MW-21D	MW-DUP-2	12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/15/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<10.0	NA	270	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		05/17/2017	<10.0	NA	254	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/25/2017	<10.0	NA	167	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/09/2017	<10.0	NA	257	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	<10.0	NA	276	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12&29/2018	<10.0	NA	257	NA	<2.0	<10.0	0.140	<10.0 E	<10.0	<10.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-22		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/14/2017	<10.0	NA	73.4	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		05/16/2017	<10.0	NA	66.2	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/25/2017	<10.0	NA	73.1	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/04&11/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/26/2018	<10.0	NA	89.8	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/13&29/2018	<10.0	NA	66.8	NA	<2.0	<10.0	17.7 ^	<10.0 E	<10.0	<10.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	NA	1.51 ^	NA	NA	NA	NA
MW-22D		12/14/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/15/2017	<10.0	NA	228	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	18.5	BRL
		05/16/2017	<10.0	NA	262	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	<10.0	NA	251	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/04&11/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/26/2018	<10.0	NA	286	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL

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			Arsenic	Arsenic, Dissolved	Barium	Barium, Dissolved	Cadmium	Chromium	Hexavalent Chromium (via 7196/7199)	Cobalt	Lead	Vanadium	All Other Analyzed Metals
2018 IDEM RCG RESIDENTIAL TAP SLs (^)			10	10	2,000	NE	NE	100	0.35	6	15	86	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-23		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<10.0	NA	258	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	23.7	BRL
		05/17/2017	<10.0	NA	286	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	<10.0	NA	322	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/05/2017	<10.0	NA	274	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	<10.0	NA	395	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
MW-25D		12/13/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<10.0	NA	231	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		05/18/2017	<10.0	NA	227	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/25/2017	<10.0	NA	105	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/05/2017	<10.0	NA	221	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/29/2018	<10.0	NA	234	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
MW-26D	MW-DUP-2	01/12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	41.0 ^	NA	433	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/16/2017	42.8 ^	NA	445	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
	MW-DUP-2	05/17/2017	44.4 ^	NA	409	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		05/17/2017	42.2 ^	NA	412	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	10.5	BRL
		07/26/2017	41.5 ^	NA	392	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	11.1	BRL
	MW-DUP-2	07/26/2017	37.0 ^	NA	345	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/13/2017	46.7 ^	NA	388	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/13/2017	46.2 ^	NA	382	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
	MW-DUP-2	03/29/2018	44.3 ^	NA	352	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/29/2018	42.4 ^	NA	347	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
	DUP-1	06/13/2018	43.4 ^	6.0	351	NA	<2.0	<10.0	<0.060	<10.0 E	<10.0	<10.0	BRL
		06/13/2018	40.4 ^	5.8	349	NA	<2.0	<10.0	<0.060	<10.0 E	<10.0	<10.0	BRL
	MWDUP-1	09/27/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
		09/27/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA

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2018 IDEM RCG RESIDENTIAL TAP SLs (^)			10	10	2,000	NE	NE	100	0.35	6	15	86	Varies
2018 IDEM RCG RESIDENTIAL VIGWSLs (*)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
2018 IDEM RCG COM/IND VIGWSLs (**)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	Varies
Sample ID	DUP ID	Date Collected	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-27D		01/12/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		03/16/2017	<10.0	NA	437	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	20.7	BRL
		05/17/2017	<10.0	NA	468	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		07/26/2017	<10.0	NA	467	NA	<2.0	10.1	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/05/2017	<10.0	NA	408	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/28/2018	<10.0	NA	428	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/12&28/2018	<10.0	NA	403	NA	<2.0	<10.0	0.180	<10.0 E	<10.0	<10.0	BRL
		09/27/2018	NA	NA	NA	NA	NA	NA	<0.150	NA	NA	NA	NA
MW-28D		03/15/2017	27.8 ^	NA	417	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	22.8	BRL
		05/17/2017	30.0 ^	NA	453	NA	<2.0	<10.0	<10.0 E	<10.0 E	10.4	<10.0	BRL
		07/26/2017	25.4 ^	NA	464	NA	<2.0	12.3	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		10/06/2017	27.7 ^	NA	526	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		03/29/2018	30.5 ^	NA	596	NA	<2.0	<10.0	<10.0 E	<10.0 E	<10.0	<10.0	BRL
		06/13&29/2018	31.4 ^	11.6 ^	627	NA	<2.0	<10.0	0.111	<10.0 E	<10.0	<10.0	BRL
		09/26/2018	31.3 ^	28.4 ^	NA	NA	NA	NA	<0.150	NA	NA	NA	NA

Abbreviations & Notes

IDEM = Indiana Department of Environmental Management; RCG = Remediation Closure Guide  
E = Reporting limit (RL) exceeds closure level due to dilution and/or method limitations.  
NE = Not Established; NA = Not Analyzed; BRL = Below Laboratory Reporting Limits  
J = Value is estimated based on quality control criteria; MDL = Method Detection Limit  
USEPA = United States Environmental Protection Agency  
Naphthalene, 1-Methylnaphthalene, and 2-methylnaphthalene reported exclusively from USEPA 8270 SIM analysis.  
All results and IDEM Screening Levels are reported in micrograms per liter (µg/L).  
Where low level CR<sup>1</sup> analysis was not performed, results are reported to the MDL  
<sup>1</sup> = Pentachlorophenol evaluated to laboratory MDL of 3.4 µg/L.  
<sup>2</sup> = Common Laboratory Artifact

The following denote the symbol and color of screening level exceedances:  
^ = At or Above IDEM RCG 2018 Residential Tap Water SLs  
\* = At or Above IDEM RCG 2018 Residential Vapor Intrusion Groundwater SLs (VIGWSLs)  
\*\* = At or Above IDEM RCG 2018 Commercial/Industrial VIGWSLs

Z = Value is unusable based on anlytical verification. Presented for reference only.

## **APPENDIX A**

### **Field Procedures**

## **MONITORING WELL WATER LEVEL MEASUREMENTS**

Water level measurements were collected from each monitoring well prior to groundwater sampling. After removing the well cap from each well within the network, sufficient time was allowed for the water level to equilibrate with the ambient air pressure.

Prior to water level measuring, the existing reference point on the well casing was determined. An oil-water interface meter was slowly lowered into the well until the intermittent tone, indicating the presence of water, was audible. The meter was then slowly pulled out a few inches, and dropped back down at smaller increments until the water level could be determined to within 0.01 feet (ft). The water level was measured based on an existing reference point on the well casing. Following sampling activities, the total depth of the well was then measured and recorded to the nearest 0.01 ft by allowing the measuring tape to contact the base of the well. The oil-water interface meter was decontaminated before and after each use with a non-phosphate detergent (Liquinox®) wash, followed by tap water and distilled water rinses to prevent cross contamination.



## **MONITORING WELL FREE PRODUCT MEASUREMENTS**

Each monitoring well was gauged for the presence of separate phase free product using an oil-water interface meter prior to groundwater sampling. After removing the well cap from each well within the network, sufficient time was allowed for the water level to equilibrate with the ambient air pressure.

Prior to measuring, the existing reference point on the well casing was determined. The oil-water interface meter was slowly lowered into the well until a steady tone and red light on the probe was observed, indicating the presence of free product. The meter was then slowly pulled out a few inches, and dropped back down at smaller increments until the free product level could be determined to within 0.01 feet (ft). The free product level was measured based on an existing reference point on the well casing. The total depth of the well was then measured and recorded to the nearest 0.01 ft by allowing the measuring tape to contact the base of the well. Using the measured depth to free product and the total depth of each monitoring well, the total product thickness within each well was determined. The oil-water interface meter was decontaminated before and after each use with a non-phosphate detergent (Liquinox®) wash, followed by tap water and distilled water rinses to prevent cross contamination.

## **LOW FLOW GROUNDWATER SAMPLING**

Low-flow sampling was conducted in general accordance with U.S. EPA low-flow sampling procedures (U.S. EPA, 1996). Prior to groundwater sample collection, water level measurements were collected from each well. After removing the well cap, sufficient time was allowed for the water level to equilibrate with the ambient air pressure. The water level indicator was decontaminated before and after each use with a non-phosphate detergent (Liquinox®) wash, followed by tap water and distilled water rinses to prevent cross contamination.

Prior to sampling, a plastic secondary containment area was constructed near the well casing. The water quality monitoring equipment was placed inside the secondary containment to prevent direct contact between the equipment and site surface. August Mack utilized a Geotech Bladder Pump system (or equivalent) to purge and sample the well. The pump was decontaminated prior to purging and sampling using a phosphate-free detergent and triple rinsed. The pump was attached to ¼-inch inside diameter (i.d.) by 3/8-inch outside diameter (o.d.) low-density polyethylene (LDPE) tubing. New tubing was used for each well, and the tubing was discarded after each use. For each well, the pump was slowly lowered into the water column and the submersible pump intake was placed at the approximated midpoint of the submerged portion of the well screen, or the midpoint of the zone which was sampled.

In accordance with U.S. EPA guidance, flow rates for the well purging and sampling were maintained below 1.0 liter/minute (generally within the range of 100 to 400 milliliter/minute) and drawdown of the aquifer was continually measured to ensure that it remained less than four (4) inches. During the well purging, groundwater physical and chemical characteristics were measured using a multi-parameter water quality meter connected to an in-line flow cell. These characteristics included: turbidity, dissolved oxygen (DO), temperature, pH, specific conductance, and oxidation reduction potential (ORP).

Once stable conditions were achieved, water samples were obtained using the low-flow equipment and collected in laboratory supplied sample containers. The purge water generated during well sampling was containerized (55-gallon steel drum), properly labeled, and properly disposed. Following sampling, the well was closed and locked.

## **APPENDIX B**

### **Groundwater Sampling/Purge Records**

# Purge Record



Well ID: MW-4  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018 GW Sampling  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 27 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 27.45 ft  
Current Total Well Depth 24.78 ft  
Initial Synoptic Depth to Water 20.89 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 22.78 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:03:00	6.78	1011.02	2.59	0.26	16.80	-96.82	20.81
2	0:06:00	6.78	1012.42	3.09	0.23	16.73	-99.36	20.81
3	0:09:00	6.80	1018.49	2.74	0.19	16.64	-103.28	20.81
4	0:12:00	6.81	1015.50	3.31	0.21	16.61	-104.19	20.81
5	0:15:00	6.82	1017.18	4.00	0.20	16.66	-106.24	20.81
Variance in last 3 readings		0.01	0.60%	-11.57%	-17.88%	-0.51%	-3.91	0.00
		0.01	-0.29%	21.03%	8.82%	-0.16%	-0.91	0.00
		0.01	0.17%	20.71%	-5.56%	0.25%	-2.06	0.00

Logged Drawdown	-0.08 ft
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Weather Conditions: Rainy, Overcast, and 60°F

Purge Start Time: 08:05

Sample ID: MW-4-29180926

**Notes:** QA/QC: Not Applicable  
Volume Purged: 6 L  
Color/Odor: None/Yes  
Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-6  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/ 3Q2018 GW Sampling  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 28 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 27.82 ft  
Current Total Well Depth 27.71 ft  
Initial Synoptic Depth to Water 19.70 ft

## Pumping Information:

Average Purging Flow Rate\* 230 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 24 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:06:00	6.98	1006.53	8.84	0.37	18.13	-238.57	19.71
2	0:09:00	6.99	1008.63	6.11	0.33	17.99	-242.78	19.71
3	0:12:00	7.00	1007.32	3.88	0.29	17.91	-246.38	19.71
4	0:15:00	7.00	1008.99	3.08	0.27	17.89	-249.17	19.71
5	0:18:00	7.00	1007.63	1.98	0.25	17.82	-250.11	19.71
Variance in last 3 readings		0.00	-0.13%	-36.55%	-10.39%	-0.48%	-3.61	0.00
		0.00	0.17%	-20.74%	-8.48%	-0.06%	-2.78	0.00
		0.00	-0.13%	-35.51%	-6.66%	-0.43%	-0.94	0.00

Logged Drawdown	0.01 ft
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Weather Conditions: Cloudy and 70°F

Purge Start Time: 07:27

Sample ID: MW-6-20180926

Notes: QA/QC: Not Applicable

Volume Purged: 4.1 L

Color/Odor: None/Yes

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-7DD  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 61 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 66.42 ft  
Current Total Well Depth 67.45 ft  
Initial Synoptic Depth to Water 22.49 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 56.75 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:39:00	7.37	928.01	3.32	0.55	17.25	-129.56	22.63
2	0:42:00	7.38	928.22	3.20	0.51	17.17	-131.28	22.63
3	0:45:00	7.37	927.40	3.82	0.47	17.16	-132.58	22.55
4	0:48:00	7.38	926.70	3.28	0.45	17.13	-133.77	22.55
5	0:51:00	7.37	926.25	4.79	0.42	17.12	-134.83	22.55
Variance in last 3 readings		0.00	-0.09%	19.42%	-7.81%	-0.03%	-1.30	0.00
		0.00	-0.08%	-14.05%	-4.96%	-0.19%	-1.19	0.00
		0.00	-0.05%	45.80%	-6.92%	-0.06%	-1.06	0.00

Logged Drawdown	0.06 ft
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Weather Conditions: Overcast and 60°F

Purge Start Time: 09:38

Sample ID: MW-7DD-20180926

Notes: QA/QC: Not Applicable

Volume Purged: 11.4 L

Color/Odor: None/Yes

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-9  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 22 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 23.05 ft  
Current Total Well Depth 23.03 ft  
Initial Synoptic Depth to Water 11.58 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 17.75 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:33:00	6.98	804.87	1.10	0.59	19.56	-74.93	11.65
2	0:36:00	7.00	807.32	1.30	0.52	19.72	-79.31	11.65
3	0:39:00	7.02	809.76	1.23	0.47	19.67	-84.05	11.65
4	0:42:00	7.04	810.75	0.89	0.45	19.66	-86.17	11.65
5	0:45:00	7.06	811.88	0.71	0.49	19.60	-86.40	11.65
Variance in last 3 readings		0.02	0.30%	-5.67%	-11.08%	-0.24%	-4.74	0.00
		0.02	0.12%	-27.56%	-3.02%	-0.02%	-2.11	0.00
		0.02	0.14%	-20.02%	8.36%	-0.33%	-0.23	0.00

Logged Drawdown	0.07 ft
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Weather Conditions: Cloudy and 75°F

Purge Start Time: 11:46

Sample ID: MW-9-20180926

**Notes:** QA/QC: Not Applicable  
Volume Purged: 9.1 L  
Color/Odor: None/Yes  
Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-10  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/ 3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 27 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 26.84 ft  
Current Total Well Depth 26.84 ft  
Initial Synoptic Depth to Water 18.20 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 23 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:18:00	7.17	873.46	15.82	0.44	17.27	-115.99	18.20
2	0:21:00	7.17	872.84	6.43	0.39	17.27	-131.82	18.20
3	0:24:00	7.17	872.98	4.01	0.38	17.16	-140.85	18.20
4	0:27:00	7.18	872.60	2.45	0.37	17.16	-146.26	18.20
5	0:30:00	7.18	872.83	1.53	0.37	17.11	-147.83	18.20
Variance in last 3 readings		0.00	0.02%	-37.73%	-2.48%	-0.60%	-9.03	0.00
		0.00	-0.04%	-38.94%	-1.08%	0.01%	-5.41	0.00
		0.00	0.03%	-37.45%	-0.86%	-0.30%	-1.57	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Cloudy and 70°F

Purge Start Time: 08:46

Sample ID: MW-10-20180926

Notes: QA/QC: Not Applicable

Volume Purged: 7.5 L

Color/Odor: None/None

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder



# Purge Record



Well ID: MW-11  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 26 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 28.04 ft  
Current Total Well Depth 28.05 ft  
Initial Synoptic Depth to Water 18.33 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 21.54 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:06:00	7.08	1347.41	4.72	0.40	19.42	-99.55	18.41
2	0:09:00	7.07	1347.98	4.07	0.33	19.29	-100.46	18.41
3	0:12:00	7.07	1348.40	3.33	0.30	19.10	-101.34	18.36
4	0:15:00	7.07	1350.50	3.71	0.27	19.09	-102.14	18.36
5	0:18:00	7.07	1353.41	2.36	0.28	18.91	-102.57	18.36
Variance in last 3 readings		0.00	0.03%	-18.23%	-10.45%	-0.97%	-0.88	0.00
		0.00	0.16%	11.58%	-9.95%	-0.06%	-0.79	0.00
		0.00	0.22%	-36.29%	3.99%	-0.94%	-0.43	0.00

Logged Drawdown	0.03 ft
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Weather Conditions: Cloudy and 80°F

Purge Start Time: 13:32

Sample ID: MW-11-20180926

Notes: QA/QC: Not Applicable

Volume Purged: 4.5 L

Color/Odor: None/None

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-14D  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q18  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 56 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 57.37 ft  
Current Total Well Depth 57.31 ft  
Initial Synoptic Depth to Water 17.78 ft

## Pumping Information:

Average Purging Flow Rate\* 110 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 52 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:41:31	7.49	832.27		1.54	19.24	-191.18	17.78
2	0:44:31	7.45	834.37		0.56	18.09	-208.02	17.78
3	0:47:31	7.45	833.74		0.40	18.06	-213.81	17.78
4	0:50:31	7.45	832.53		0.36	18.35	-216.92	17.78
5	0:53:31	7.45	827.14		0.34	18.25	-222.45	17.78
Variance in last 3 readings		0.00	-0.08%		-28.23%	-0.13%	-5.79	0.00
		0.00	-0.15%		-10.55%	1.60%	-3.11	0.00
		0.00	-0.65%		-5.11%	-0.59%	-5.53	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Not Recorded

Purge Start Time: 10:05

Sample ID: MW-14D-20180926

Notes: QA/QC: Not Applicable

Volume Purged: 6.5 L

Color/Odor: None/None

Comments: Turbidity sensor error during sampling.

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-17  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 22 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 24.91 ft  
Current Total Well Depth 25.71 ft  
Initial Synoptic Depth to Water 14.82 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 18.29 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:18:00	6.81	1064.61	2.56	0.24	18.38	-49.11	14.83
2	0:21:00	6.82	1064.81	5.31	0.23	18.37	-50.94	14.83
3	0:24:00	6.83	1064.29	2.12	0.23	18.35	-52.35	14.83
4	0:27:00	6.84	1061.03	2.58	0.22	18.45	-55.95	14.83
5	0:30:00	6.84	1064.66	0.98	0.25	18.61	-55.04	14.83
Variance in last 3 readings		0.01	-0.05%	-60.19%	0.51%	-0.08%	-1.41	0.00
		0.01	-0.31%	21.84%	-3.97%	0.52%	-3.60	0.00
		0.01	0.34%	-62.12%	12.56%	0.86%	0.90	0.00

Logged Drawdown	0.01 ft
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Weather Conditions: Mostly Sunny and 80°F

Purge Start Time: 14:56

Sample ID: MW-17-20280926

Notes: QA/QC: Not Applicable

Total Volume: 9.5 L

Color/Odor: None/Yes

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-18  
Date Sampled: 2018-09-27

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 24 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 27.82 ft  
Current Total Well Depth 28.00 ft  
Initial Synoptic Depth to Water 12.94 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 19.75 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:09:00	6.99	1244.63	9.94	0.30	18.68	-143.69	12.96
2	0:12:00	7.03	1204.54	8.92	0.27	18.45	-143.55	12.96
3	0:15:00	7.07	1179.58	4.87	0.25	18.23	-143.65	12.96
4	0:18:00	7.08	1172.19	4.40	0.23	18.16	-139.36	12.96
5	0:21:00	7.09	1168.73	3.36	0.23	18.12	-140.81	12.96
Variance in last 3 readings		0.03	-2.07%	-45.43%	-6.90%	-1.16%	-0.10	0.00
		0.01	-0.63%	-9.48%	-6.53%	-0.39%	4.29	0.00
		0.01	-0.30%	-23.76%	-2.06%	-0.21%	-1.45	0.00

Logged Drawdown	0.02 ft
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Weather Conditions: Cloudy and 58°F

Purge Start Time: 07:31

Sample ID: MW-18-20180926

## Notes:

QA/QC: MS/MSD

Total Volume: 6.1 L

Color/Odor: None/None

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-18D  
Date Sampled: 2018-09-27

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump-Aqua TROLL 600  
Multimeter Type TLPE  
Tubing / Bailer Type 0.25 in  
Tubing / Bailer ID 49 ft  
Tubing / Bailer Length

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 52.10 ft  
Current Total Well Depth 52.90 ft  
Initial Synoptic Depth to Water 13.40 ft

## Pumping Information:

Average Purging Flow Rate\* 100 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 44.75 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:30:00	7.23	955.69		0.41	18.06	-123.14	13.40
2	0:33:00	7.23	952.69		0.39	18.04	-126.84	13.40
3	0:36:00	7.23	960.47		0.38	18.04	-129.52	13.40
4	0:39:00	7.23	971.79		0.37	18.02	-131.84	13.40
5	0:42:00	7.23	953.81		0.36	18.01	-132.41	13.40
Variance in last 3 readings		-0.01	0.82%		-3.31%	0.00%	-2.68	0.00
		0.00	1.18%		-3.32%	-0.12%	-2.32	0.00
		0.00	-1.85%		-1.37%	-0.07%	-0.56	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Cloudy, Overcast, and 60°F

Purge Start Time: 09:36

Sample ID: MW-18D-20180927

Notes: QA/QC: Not Applicable

Volume Purged: 5.7 L

Color/Odor: None/Yes

Comments: Turbidity sensor error during sampling.

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-20  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q18  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 24 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 25.05 ft  
Current Total Well Depth 25.02 ft  
Initial Synoptic Depth to Water 13.90 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 20 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:06:00	7.08	873.22	372.21	0.35	19.67	-152.37	13.90
2	0:09:00	7.04	870.78	315.88	0.29	19.31	-152.39	13.90
3	0:12:00	7.02	870.40	288.57	0.25	19.12	-154.94	13.90
4	0:15:00	7.03	867.70	306.01	0.23	18.97	-156.30	13.90
5	0:18:00	7.04	864.46	320.75	0.21	18.92	-158.59	13.90
Variance in last 3 readings		-0.01	-0.04%	-8.64%	-13.10%	-0.97%	-2.54	0.00
		0.00	-0.31%	6.04%	-7.70%	-0.78%	-1.36	0.00
		0.01	-0.37%	4.82%	-7.17%	-0.28%	-2.29	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Sunny and 74°F

Purge Start Time: 11:53

Sample ID: MW-20-20180826

Notes: QA/QC: Not Applicable

Volume Purged: 4 L

Color/Odor: None/None

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-20D  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q18  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 51 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 52.00 ft  
Current Total Well Depth 52.03 ft  
Initial Synoptic Depth to Water 13.62 ft

## Pumping Information:

Average Purging Flow Rate\* 130 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 47 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:30:24	7.40	806.30		0.71	19.38	-180.39	13.62
2	0:33:24	7.39	801.66		0.57	18.70	-190.93	13.62
3	0:36:24	7.38	808.01		0.46	18.58	-196.67	13.62
4	0:39:24	7.38	806.07		0.40	18.43	-199.86	13.62
5	0:42:24	7.38	806.27		0.36	18.39	-202.11	13.62
Variance in last 3 readings		-0.01	0.79%		-17.86%	-0.63%	-5.74	0.00
		0.00	-0.24%		-13.46%	-0.82%	-3.19	0.00
		0.00	0.03%		-10.45%	-0.19%	-2.26	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Not Recorded

Purge Start Time: 12:43

Sample ID: MW-20D-20180926

Notes: QA/QC: Not Applicable

Volume Purged: 5.5 L

Color/Odor: None/None

Comments: Turbidity sensor error during sampling.

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-21  
Date Sampled: 2018-09-27

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 22 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 23.00 ft  
Current Total Well Depth 23.04 ft  
Initial Synoptic Depth to Water 11.59 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 18 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:15:00	6.92	943.88	27.30	1.54	19.34	-66.98	11.59
2	0:18:00	6.92	944.08	13.56	1.57	19.35	-59.94	11.59
3	0:21:00	6.92	944.22	7.93	1.58	19.36	-53.37	11.59
4	0:24:00	6.91	944.43	5.82	1.56	19.36	-47.26	11.59
5	0:27:00	6.92	943.96	5.04	1.68	19.38	-41.31	11.59
Variance in last 3 readings		0.00	0.02%	-41.50%	0.68%	0.07%	6.57	0.00
		-0.01	0.02%	-26.63%	-1.67%	0.00%	6.11	0.00
		0.01	-0.05%	-13.37%	8.11%	0.09%	5.96	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Not Recorded

Purge Start Time: 09:40

Sample ID: MW-21-20180927

Notes: QA/QC: Not Applicable

Volume Purged: 8 L

Color/Odor: None/Yes

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder



# Purge Record



Well ID: MW-21D  
Date Sampled: 2018-09-27

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 52 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 53.08 ft  
Current Total Well Depth 53.06 ft  
Initial Synoptic Depth to Water 13.41 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 48 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:09:00	7.17	949.85		0.49	17.28	-204.50	13.41
2	0:12:00	7.17	949.34		0.44	17.23	-205.55	13.41
3	0:15:00	7.18	943.08		0.40	17.20	-207.35	13.41
4	0:18:00	7.18	941.26		0.38	17.17	-206.47	13.41
5	0:21:00	7.18	941.17		0.37	17.16	-205.88	13.41
Variance in last 3 readings		0.01	-0.66%		-9.44%	-0.17%	-1.80	0.00
		0.00	-0.19%		-3.68%	-0.16%	0.88	0.00
		0.00	-0.01%		-2.71%	-0.05%	0.59	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Not Recorded

Purge Start Time: 08:51

Sample ID: MW-21D-20180927

Notes: QA/QC: Not Applicable

Volume Purged: 5 L

Color/Odor: None/Yes

Comments: Turbidity sensor error during sampling.

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-22  
Date Sampled: 2018-09-27

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 18 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 19.00 ft  
Current Total Well Depth 18.98 ft  
Initial Synoptic Depth to Water 9.55 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/ min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 14 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:03:00	6.82	910.45		3.87	17.82	205.20	9.55
2	0:06:00	6.87	900.82		3.90	18.01	207.08	9.55
3	0:09:00	6.88	904.11		3.96	18.15	202.63	9.55
4	0:12:00	6.90	900.02		4.00	18.18	197.32	9.55
5	0:15:00	6.91	896.36		3.93	18.23	195.24	9.55
Variance in last 3 readings		0.01	0.36%		1.52%	0.75%	-4.45	0.00
		0.02	-0.45%		0.99%	0.19%	-5.31	0.00
		0.01	-0.41%		-1.61%	0.23%	-2.08	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Not Recorded

Purge Start Time: 07:47

Sample ID: MW-22-20180927

## Notes:

QA/QC: Not Applicable

Total Volume Purged: 3.5 L

Color/Odor: None/None

Comments: Turbidity sensor error during sampling.

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-26D  
Date Sampled: 2018-09-27

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 44 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 47.41 ft  
Current Total Well Depth 47.42 ft  
Initial Synoptic Depth to Water 16.65 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 39.75 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	1:00:00	7.23	1395.78	62.73	0.19	15.51	-133.56	16.65
2	1:03:00	7.23	1402.78	97.00	0.17	15.52	-135.06	16.65
3	1:06:00	7.23	1416.97	175.45	0.16	15.50	-135.78	16.65
4	1:09:00	7.23	1426.95	150.47	0.15	15.51	-136.49	16.65
5	1:12:00	7.23	1442.78	423.81	0.15	15.47	-137.01	16.65
Variance in last 3 readings		0.00	1.01%	80.87%	-9.31%	-0.13%	-0.72	0.00
		0.00	0.70%	-14.24%	-3.96%	0.05%	-0.71	0.00
		0.00	1.11%	181.66%	-3.33%	-0.23%	-0.52	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Overcast and 60°F

Purge Start Time: 11:37

Sample ID: MW-26D-20180927

Notes: QA/QC: MW-DUP-1-20180827

Volume Purged: 18 L

Color/Odor: None/Yes

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-27D  
Date Sampled: 2018-09-27

## Project Information:

Operator Name R. Benge  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q2018  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Geotech Bladder Pump  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 52 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 52.55 ft  
Current Total Well Depth 52.52 ft  
Initial Synoptic Depth to Water 18.63 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 47.5 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:36:00	7.09	1300.70	14.71	0.24	16.80	31.26	18.63
2	0:39:00	7.09	1303.07	10.50	0.23	16.80	31.65	18.63
3	0:42:00	7.09	1302.81	9.18	0.23	16.78	32.05	18.63
4	0:45:00	7.08	1303.20	10.62	0.22	16.76	32.80	18.63
5	0:48:00	7.09	1302.64	9.24	0.22	16.76	32.79	18.63
Variance in last 3 readings		0.00	-0.02%	-12.58%	-3.67%	-0.12%	0.41	0.00
		-0.01	0.03%	15.75%	-2.04%	-0.10%	0.75	0.00
		0.01	-0.04%	-13.02%	-2.25%	-0.04%	-0.01	0.00

Logged Drawdown

0.00 ft

Weather Conditions: Overcast and 60°F

Purge Start Time: 14:08

Sample ID: MW-27D-20180927

Notes: QA/QC: Not Applicable

Volume Purged: 13.2 L

Color/Odor: None/None

Comments: None

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

# Purge Record



Well ID: MW-28D  
Date Sampled: 2018-09-26

## Project Information:

Operator Name R. Johnson  
Company Name August Mack Environmental, Inc.  
Project Number JS0449.350/3Q18  
Site Name Columbus Wood Treatment  
Sampling Method Micro Purge

## Equipment Information:

Pump Model/Type Bladder  
Multimeter Type Aqua TROLL 600  
Tubing / Bailer Type TLPE  
Tubing / Bailer ID 0.25 in  
Tubing / Bailer Length 46 ft

## Well Information:

Well Diameter 2 in  
Historic Total Well Depth 46.95 ft  
Current Total Well Depth 46.96 ft  
Initial Synoptic Depth to Water 15.74 ft

## Pumping Information:

Average Purging Flow Rate\* 200 (ml/min)  
Parameter Recording Rate 180 sec  
Drawdown Stabilization Criteria < 0.3 ft  
Pump Placement from TOC 42 ft

## Micro-Purge Sampling Stabilization Summary

	Purge Time	pH	Cond [µS/cm @25C]	Turbidity (NTU)	RDO [mg/L]	Temp [C]	ORP [mV]	Depth to Water (ft.)
Stabilization Settings		+/-0.1	+/-3 %	+/-10 %	+/-10 %	+/-3%	+/-10	
Last 5 Readings				< /=5 NTU				
1	0:06:00	7.26	1193.94		0.39	17.54	-146.35	15.74
2	0:09:00	7.23	1194.46		0.33	17.16	-147.82	15.74
3	0:12:00	7.22	1191.57		0.29	17.08	-149.28	15.74
4	0:15:00	7.22	1184.08		0.27	16.88	-150.79	15.74
5	0:18:00	7.22	1186.67		0.26	16.83	-152.19	15.74
Variance in last 3 readings		-0.01	-0.24%		-10.86%	-0.50%	-1.45	0.00
		0.00	-0.63%		-7.75%	-1.13%	-1.52	0.00
		0.00	0.22%		-5.48%	-0.30%	-1.39	0.00

Logged Drawdown	0.00 ft
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Weather Conditions: Not Recorded

Purge Start Time: 14:18

Sample ID: MW-28D-20180926

Notes: QA/QC: Not Applicable

Volume Purged: 5.5 L

Color/Odor: None/None

Comments: Turbidity sensor error during sampling.

\* = Flow rates measured to the nearest 10 ml during micro purge sampling using graduated cylinder

## **APPENDIX C**

### **Laboratory Analytical Reports**

October 10, 2018

Pilar Cuadra  
August Mack Environmental Consultants  
1302 N. Meridian St.  
Indianapolis, IN 46202

RE: Project: Former Columbus Wood Treating  
Pace Project No.: 50206619

Dear Pilar Cuadra:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Kelly Jones  
kelly.jones@pacelabs.com  
(317)228-3100  
Project Manager

Enclosures

cc: Zack Ramey, August Mack Environmental  
Andy Tennyson, August Mack Environmental Consultants



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## SAMPLE SUMMARY

Project: Former Columbus Wood Treating

Pace Project No.: 50206619

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50206619001	MW-6-20180926	Water	09/26/18 09:45	09/28/18 09:55
50206619002	MW-10-20180926	Water	09/26/18 11:20	09/28/18 09:55
50206619003	MW-14D-20180926	Water	09/26/18 13:00	09/28/18 09:55
50206619004	MW-20-20180926	Water	09/26/18 14:15	09/28/18 09:55
50206619005	MW-20D-20180926	Water	09/26/18 15:30	09/28/18 09:55
50206619006	MW-28D-20180926	Water	09/26/18 16:40	09/28/18 09:55
50206619007	MW-22-20180927	Water	09/27/18 10:05	09/28/18 09:55
50206619008	MW-21D-20180927	Water	09/27/18 11:15	09/28/18 09:55
50206619009	MW-21-20180927	Water	09/27/18 12:15	09/28/18 09:55
50206619010	EB-1-20180927	Water	09/27/18 13:05	09/28/18 09:55
50206619011	MW-4-20180926	Water	09/26/18 10:25	09/28/18 09:55
50206619012	MW-7DD-20180926	Water	09/26/18 12:35	09/28/18 09:55
50206619013	MW-9-20180926	Water	09/26/18 14:35	09/28/18 09:55
50206619014	MW-11-20180926	Water	09/26/18 15:55	09/28/18 09:55
50206619015	MW-17-20180926	Water	09/26/18 17:30	09/28/18 09:55
50206619016	MW-18-20180927	Water	09/27/18 09:55	09/28/18 09:55
50206619017	MW-18D-20180927	Water	09/27/18 12:25	09/28/18 09:55
50206619018	MW-26D-20180927	Water	09/27/18 14:50	09/28/18 09:55
50206619019	MW-27D-20180927	Water	09/27/18 17:05	09/28/18 09:55
50206619020	MW-Dup-1-20180927	Water	09/27/18 08:00	09/28/18 09:55

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.







# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

## Section A Required Client Information:

Company: August Mack Environmental  
Address: 1302 N. Meridian Street  
Indianapolis, IN 46202  
Email To: pcuadra@augustmack.com  
Phone: (317) 916-8000 Fax: (317) 916-8001  
Requested Due Date/TAT: Standard

## Section B Required Project Information:

Report To: Pilar Cuadra  
Copy To: Andy Tennyson  
Purchase Order No.:  
Project Name: Former Columbus Wood Treating  
Project Number: JS0449.350

## Section C Invoice Information:

Attention: Pilar Cuadra  
Company Name: August Mack Environmental  
Address: 1302 N. Meridian Street Indianapolis  
Pace Quote Reference:  
Pace Project Manager: Kelly Jones  
Pace Profile #:

Page: 2 of 2

## REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER  
☐ UST ☐ RCRA ☒ OTHER Brownfields

Site Location

IN

STATE:

## Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓ VOCs via 8260 SVOCs/PAHs 8270C/8270 SIM Total Arsenic via 6010 Dissolved Arsenic 6010 Hexavalent Chromium via 7199 Herbicides via 8151 MS/MSD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	N	N				N	N	N	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
J-flag PCP for 8270	Scott Kelenber / AUE	9-28-18	0955	Andy Tennyson / AUE	9/28/18	0955	2.5	4	W	7
Herbicides via 8151 includes pentachlorophenol only							1.4			

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Dylan Johnson							
SIGNATURE of SAMPLER: [Signature]		DATE Signed (MM/DD/YY): 9/27/18					



# SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50206619

Date/Time and Initials of person examining contents: 09/28/18 gk 1240

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

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

Seals Intact: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☒ None ☐ Other \_\_\_\_\_

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 26/25 1.8/1.4 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

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

	Yes	No		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been checked?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			<input checked="" type="checkbox"/>
Chain of Custody Present:	<input checked="" type="checkbox"/>		Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			<input checked="" type="checkbox"/>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>		Dissolved Metals field filtered?:			<input checked="" type="checkbox"/>
Short Hold Time Analysis (<72hr)?: Analysis:		<input checked="" type="checkbox"/>	Headspace Wisconsin Sulfide			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
			Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Rush TAT Requested:		<input checked="" type="checkbox"/>	Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sample Labels Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

# Sample Container Count

CLIENT: August Mack

COC PAGE 1 of 2

COC ID# \_\_\_\_\_

Project # 50206019

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	B K R	false G7W	Matrix (Soil/W Aqueo	pH <2	pH >9	pH>12
1																		1	WT			
2																		1				
3																		1				
4																		1				
5																		1				
6																		1				
7																		1				
8																		1				
9																		1				
10																		1				
11																						
12																						

## Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				



# Sample Container Count

CLIENT: August Mack

COC PAGE 2 of 2

COC ID# \_\_\_\_\_

Project # 50206619

WO#: 50206619



Bull Kit digestion tube

Matrix SIF  
(Soil/Water)  
Aqueous I

pH <2 pH >9 pH >12

Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Matrix SIF (Soil/Water) Aqueous I	pH <2	pH >9	pH >12
1																		1	WT			
2																		1				
3																		1				
4																		1				
5																		1				
6																		3				
7																		1				
8																		1				
9																		1				
10																		1				
11																						
12																						

## Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGPU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

October 09, 2018

## **Pace Analytical - Indianapolis, IN**

Sample Delivery Group: L1030590  
Samples Received: 10/02/2018  
Project Number: 50206619  
Description: Former Columbus Wood Treating

Report To: Kelly Jones  
7726 Moller Rd.  
Indianapolis, IN 46268

Entire Report Reviewed By:



Pam Langford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



## MW-6-20180926 L1030590-01 GW

			Collected by	Collected date/time	Received date/time
				09/26/18 09:45	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 17:37	10/08/18 17:37	GB

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## MW-10-20180926 L1030590-02 GW

			Collected by	Collected date/time	Received date/time
				09/26/18 11:20	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 17:56	10/08/18 17:56	GB

<sup>4</sup> Cn<sup>5</sup> Sr

## MW-14D-20180926 L1030590-03 GW

			Collected by	Collected date/time	Received date/time
				09/26/18 13:00	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 18:12	10/08/18 18:12	GB

<sup>6</sup> Qc<sup>7</sup> Gl

## MW-20-20180926 L1030590-04 GW

			Collected by	Collected date/time	Received date/time
				09/26/18 14:15	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 18:21	10/08/18 18:21	GB

<sup>8</sup> Al<sup>9</sup> Sc

## MW-20D-20180926 L1030590-05 GW

			Collected by	Collected date/time	Received date/time
				09/26/18 15:30	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 18:29	10/08/18 18:29	GB

## MW-28D-20180926 L1030590-06 GW

			Collected by	Collected date/time	Received date/time
				09/26/18 16:40	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 18:53	10/08/18 18:53	GB

## MW-22-20180927 L1030590-07 GW

			Collected by	Collected date/time	Received date/time
				09/27/18 10:05	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:02	10/08/18 19:02	GB

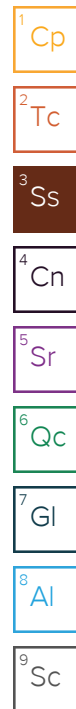
## MW-21D-20180927 L1030590-08 GW

			Collected by	Collected date/time	Received date/time
				09/27/18 11:15	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:10	10/08/18 19:10	GB





MW-21-20180927 L1030590-09 GW				Collected by	Collected date/time	Received date/time
					09/27/18 12:15	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:18	10/08/18 19:18	GB	
EB-1-20180927 L1030590-10 GW				Collected by	Collected date/time	Received date/time
					09/27/18 13:05	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:26	10/08/18 19:26	GB	
MW-4-20180926 L1030590-11 GW				Collected by	Collected date/time	Received date/time
					09/26/18 10:25	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:34	10/08/18 19:34	GB	
MW-7DD-20180926 L1030590-12 GW				Collected by	Collected date/time	Received date/time
					09/26/18 12:35	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:43	10/08/18 19:43	GB	
MW-9-20180926 L1030590-13 GW				Collected by	Collected date/time	Received date/time
					09/26/18 14:35	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:51	10/08/18 19:51	GB	
MW-11-20180926 L1030590-14 GW				Collected by	Collected date/time	Received date/time
					09/26/18 15:55	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 19:59	10/08/18 19:59	GB	
MW-17-20180926 L1030590-15 GW				Collected by	Collected date/time	Received date/time
					09/26/18 17:30	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 20:07	10/08/18 20:07	GB	
MW-18-20180927 L1030590-16 GW				Collected by	Collected date/time	Received date/time
					09/27/18 09:55	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 20:32	10/08/18 20:32	GB	





## MW-18D-20180927 L1030590-17 GW

			Collected by	Collected date/time	Received date/time
				09/27/18 12:25	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 20:56	10/08/18 20:56	GB

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## MW-26D-20180927 L1030590-18 GW

			Collected by	Collected date/time	Received date/time
				09/27/18 14:50	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 21:04	10/08/18 21:04	GB

<sup>4</sup> Cn<sup>5</sup> Sr

## MW-27D-20180927 L1030590-19 GW

			Collected by	Collected date/time	Received date/time
				09/27/18 17:05	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 21:13	10/08/18 21:13	GB

<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## MW-DUP-20180927 L1030590-20 GW

			Collected by	Collected date/time	Received date/time
				09/27/18 08:00	10/02/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 7199	WG1175380	1	10/08/18 21:29	10/08/18 21:29	GB

<sup>9</sup> Sc



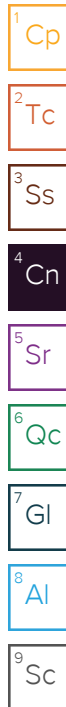
All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Pam Langford  
Project Manager

### Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
<a href="#">L1030590-01</a>	<a href="#">MW-6-20180926</a>	7199
<a href="#">L1030590-02</a>	<a href="#">MW-10-20180926</a>	7199
<a href="#">L1030590-03</a>	<a href="#">MW-14D-20180926</a>	7199
<a href="#">L1030590-04</a>	<a href="#">MW-20-20180926</a>	7199
<a href="#">L1030590-05</a>	<a href="#">MW-20D-20180926</a>	7199
<a href="#">L1030590-06</a>	<a href="#">MW-28D-20180926</a>	7199
<a href="#">L1030590-07</a>	<a href="#">MW-22-20180927</a>	7199
<a href="#">L1030590-08</a>	<a href="#">MW-21D-20180927</a>	7199
<a href="#">L1030590-09</a>	<a href="#">MW-21-20180927</a>	7199
<a href="#">L1030590-10</a>	<a href="#">EB-1-20180927</a>	7199
<a href="#">L1030590-11</a>	<a href="#">MW-4-20180926</a>	7199
<a href="#">L1030590-12</a>	<a href="#">MW-7DD-20180926</a>	7199
<a href="#">L1030590-13</a>	<a href="#">MW-9-20180926</a>	7199
<a href="#">L1030590-14</a>	<a href="#">MW-11-20180926</a>	7199
<a href="#">L1030590-15</a>	<a href="#">MW-17-20180926</a>	7199
<a href="#">L1030590-16</a>	<a href="#">MW-18-20180927</a>	7199
<a href="#">L1030590-17</a>	<a href="#">MW-18D-20180927</a>	7199
<a href="#">L1030590-18</a>	<a href="#">MW-26D-20180927</a>	7199
<a href="#">L1030590-19</a>	<a href="#">MW-27D-20180927</a>	7199
<a href="#">L1030590-20</a>	<a href="#">MW-DUP-20180927</a>	7199





Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 17:37	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 17:56	<a href="#">WG1175380</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 18:12	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 18:21	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 18:29	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 18:53	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	1.51		0.150	0.500	1	10/08/2018 19:02	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 19:10	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	12.3		0.150	0.500	1	10/08/2018 19:18	<a href="#">WG1175380</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 19:26	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 19:34	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 19:43	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 19:51	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 19:59	<a href="#">WG1175380</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 20:07	<a href="#">WG1175380</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 20:32	<a href="#">WG1175380</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 20:56	<a href="#">WG1175380</a>

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 21:04	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 21:13	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 7199

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.150	0.500	1	10/08/2018 21:29	<a href="#">WG1175380</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3348897-1 10/08/18 16:25

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Hexavalent Chromium	U		0.150	0.500

L1030590-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1030590-01 10/08/18 17:37 • (DUP) R3348897-4 10/08/18 17:48

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Hexavalent Chromium	U	0.000	1	0.000		20

L1030590-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1030590-19 10/08/18 21:13 • (DUP) R3348897-8 10/08/18 21:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Hexavalent Chromium	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3348897-2 10/08/18 16:33 • (LCSD) R3348897-3 10/08/18 16:41

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Hexavalent Chromium	2.00	2.00	2.04	100	102	90.0-110			1.99	20

L1030590-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1030590-02 10/08/18 17:56 • (MS) R3348897-5 10/08/18 18:04

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	ug/l	ug/l	ug/l	%		%	
Hexavalent Chromium	50.0	U	50.3	101	1	90.0-110	

L1030590-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1030590-16 10/08/18 20:32 • (MS) R3348897-6 10/08/18 20:40 • (MSD) R3348897-7 10/08/18 20:48

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Hexavalent Chromium	50.0	U	52.0	51.6	104	103	1	90.0-110			0.774	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc





## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Ai

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

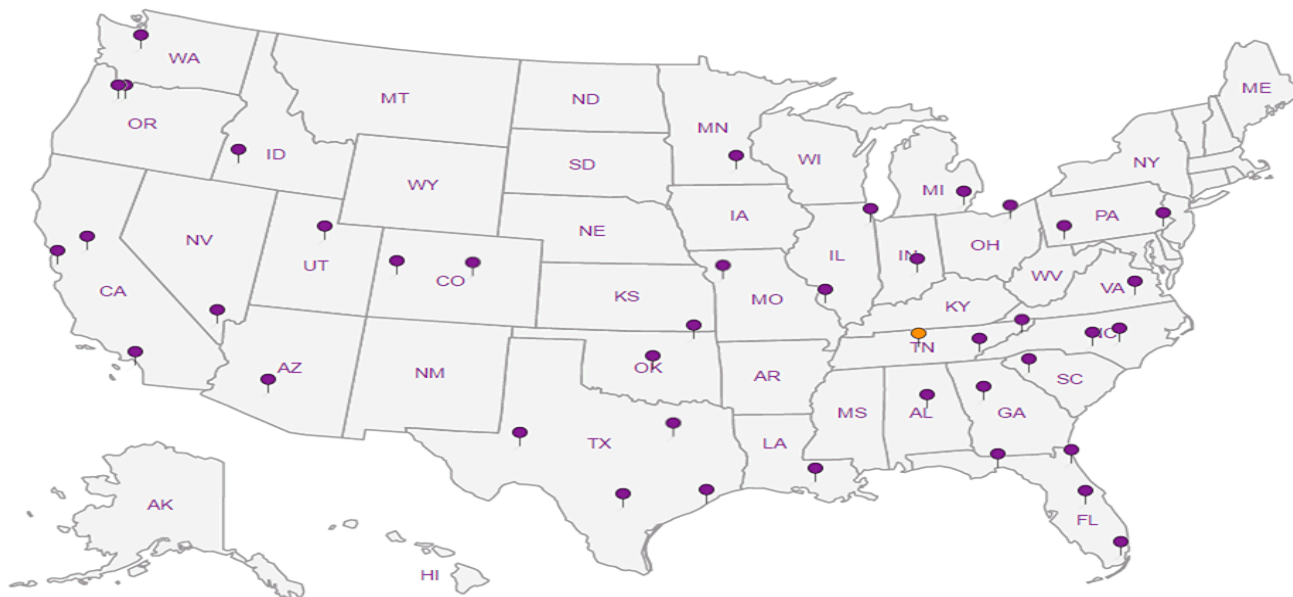
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



# Chain of Custody



Workorder: 50206619

Workorder Name: Former Columbus Wood Treating

Results Requested By: 10/9/2018

Report / Invoice To		Subcontract To		Requested Analysis																					
Kelly Jones Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)228-3100 Email: kelly.jones@pacelabs.com		Pace National Tennessee		P.O. _____		<div style="position: absolute; top: 10px; right: 10px; border: 1px solid black; padding: 5px;"> <b>B207</b>   <i>L1030590</i> </div>																			
State of Sample Origin: IN					Preserved Containers											LAB USE ONLY									
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	1	2	3	4	5	6	7	8	9	10	11						12	13	14	15	16
1	MW-6-20180926	9/26/2018 09:45	50206619001	Water	1																				-01
2	MW-10-20180926	9/26/2018 11:20	50206619002	Water	1																				-02
3	MW-14D-20180926	9/26/2018 13:00	50206619003	Water	1																				-03
4	MW-20-20180926	9/26/2018 14:15	50206619004	Water	1																				-04
5	MW-20D-20180926	9/26/2018 15:30	50206619005	Water	1																				-05
6	MW-28D-20180926	9/26/2018 16:40	50206619006	Water	1																				-06
7	MW-22-20180927	9/27/2018 10:05	50206619007	Water	1																				-07
8	MW-21D-20180927	9/27/2018 11:15	50206619008	Water	1																				-08
9	MW-21-20180927	9/27/2018 12:15	50206619009	Water	1																				-09
10	EB-1-20180927	9/27/2018 13:05	50206619010	Water	1																				-10
11	MW-4-20180926	9/26/2018 10:25	50206619011	Water	1																				-11
12	MW-7DD-20180926	9/26/2018 12:35	50206619012	Water	1																				-12
13	MW-9-20180926	9/26/2018 14:35	50206619013	Water	1																				-13
14	MW-11-20180926	9/26/2018 15:55	50206619014	Water	1																				-14
15	MW-17-20180926	9/26/2018 17:30	50206619015	Water	1																				-15
16	MW-18-20180927	9/27/2018 09:55	50206619016	Water	3																				-16
17	MW-18D-20180927	9/27/2018 12:25	50206619017	Water	1																				-17
18	MW-26D-20180927	9/27/2018 14:50	50206619018	Water	1																				-18
19	MW-27D-20180927	9/27/2018 17:05	50206619019	Water	1																				-19

# Chain of Custody



Workorder: 50206619

Workorder Name: Former Columbus Wood Treating

Results Requested By: 10/9/2018

Report / Invoice To		Subcontract To		Requested Analysis																				
Kelly Jones Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)228-3100 Email kelly.jones@pacelabs.com		Pace National Tennessee		P.O. _____		<div style="float: right; font-size: 24pt;">L1030590</div> <div style="clear: both;"></div>																		
State of Sample Origin: IN				Preserved Containers								<div style="writing-mode: vertical-rl; transform: rotate(180deg);">Kavalent Chromium by 7199 to Pace</div>				LAB USE ONLY								
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	GC																			
20	MW-Dup-1-20180927	9/27/2018 08:00	50206619020	Water	1																			
21																								
22																								
23																								
24																								
Transfers																Comments								
Released By	Date/Time	Received By	Date/Time																					
1	Jason Hunt	10/1/18	Dr. Farris	10/2/18 0845																				
2																								
3																								
Cooler Temperature on Receipt °C				Custody Seal Y or (N)				Received on Ice (Y) or N				Samples Intact (Y) or N												

1.0-2=0.84

Fed Ex: 4558 7045 5492

Rec: 22 no TB

RAD CORRECTION: 0.5 mR/hr



(To be completed by sending lab)

Sending Region	Indianapolis	Sending Project Mgr	Kelly Jones
Receiving Region	Pace National	External Client	August Mack
State of Sample Origin	IN	QC Deliverable	Level 2

Type of Work: Requested Reportable Units	Analytical	Other (Identify) Report Wet or Dry Weight?
	<input type="checkbox"/>	

**Special Requirements:**

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
Microbiology	17		\$	\$
Metals	20		\$	\$
Wet Chem.	21	\$ 1,785.00	\$	1,428.00
SV GCMS	30		\$	\$
SV GC & LC	31		\$	\$
V GC	33		\$	\$
V GCMS	34		\$	\$
Dioxin* (Includes Coplanar PCBs & PBDEs)	35		\$	\$
Radiation	38		\$	\$
Air	39		\$	\$
Other(Specify)			\$	\$
<b>Total</b>			\$	1,428.00
				\$ 357.00

Attention / Disruptive Region (10%)

Chain of Custody Included:

<input checked="" type="checkbox"/> x	Yes	<input type="checkbox"/>	No
---------------------------------------	-----	--------------------------	----

Return Samples to Sending Region:

☐ Yes ☒ No

Matrix:

<input type="checkbox"/> Soil	<input checked="" type="checkbox"/> Water
-------------------------------	---

☐ Air ☐ Other (identify) \_\_\_\_\_

CONFIRMATION OF WORK COMPLETED

Receiving Project Manager: \_\_\_\_\_

## DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.  
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

## Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

Client: <i>PACEN</i>	SDG#	4030590	
Cooler Received/Opened On: 10/2/18	Temperature:	0.8	
Received By: Brock Fariss			
Signature: <i>B. Fariss</i>			
<b>Receipt Check List</b>	<b>NP</b>	<b>Yes</b>	<b>No</b>
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

October 09, 2018

Pilar Cuadra  
August Mack Environmental Consultants  
1302 N. Meridian St.  
Indianapolis, IN 46202

RE: Project: Former Columbus Wood Treating  
Pace Project No.: 50206626

Dear Pilar Cuadra:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kelly Jones  
kelly.jones@pacelabs.com  
(317)228-3100  
Project Manager

Enclosures

cc: Zack Ramey, August Mack Environmental  
Andy Tennyson, August Mack Environmental Consultants



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

---

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-18-12

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50206626001	MW-6-20180926	Water	09/26/18 09:45	09/28/18 09:55
50206626002	MW-10-20180926	Water	09/26/18 11:20	09/28/18 09:55
50206626003	MW-14D-20180926	Water	09/26/18 13:00	09/28/18 09:55
50206626004	MW-20-20180926	Water	09/26/18 14:15	09/28/18 09:55
50206626005	MW-20D-20180926	Water	09/26/18 15:30	09/28/18 09:55
50206626006	MW-28D-20180926	Water	09/26/18 16:40	09/28/18 09:55
50206626007	MW-22-20180927	Water	09/27/18 10:05	09/28/18 09:55
50206626008	MW-21D-20180927	Water	09/27/18 11:15	09/28/18 09:55
50206626009	EB-1-20180927	Water	09/27/18 13:05	09/28/18 09:55
50206626010	TB-1-20180926	Water	09/26/18 08:00	09/28/18 09:55
50206626011	TB-2-20180927	Water	09/27/18 08:00	09/28/18 09:55
50206626012	MW-4-20180926	Water	09/26/18 10:25	09/28/18 09:55
50206626013	MW-7DD-20180926	Water	09/26/18 12:35	09/28/18 09:55
50206626014	MW-9-20180926	Water	09/26/18 14:35	09/28/18 09:55
50206626015	MW-11-20180926	Water	09/26/18 15:55	09/28/18 09:55
50206626016	MW-17-20180926	Water	09/26/18 17:30	09/28/18 09:55
50206626017	MW-18-20180927	Water	09/27/18 09:55	09/28/18 09:55
50206626018	MW-18D-20180927	Water	09/27/18 12:25	09/28/18 09:55
50206626019	MW-26D-20180927	Water	09/27/18 14:50	09/28/18 09:55
50206626020	MW-27D-20180927	Water	09/27/18 17:05	09/28/18 09:55
50206626021	MW-DUP-1-20180927	Water	09/27/18 08:00	09/28/18 09:55
50206626022	TB-3-20180927	Water	09/27/18 08:00	09/28/18 09:55

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50206626001	MW-6-20180926	EPA 8151	NPW	2	PASI-I
		EPA 6010	JKP	1	PASI-I
		EPA 6010	JKP	1	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626002	MW-10-20180926	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626003	MW-14D-20180926	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626004	MW-20-20180926	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626005	MW-20D-20180926	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626006	MW-28D-20180926	EPA 6010	JKP	1	PASI-I
		EPA 6010	JKP	1	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626007	MW-22-20180927	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626008	MW-21D-20180927	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626009	EB-1-20180927	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626010	TB-1-20180926	EPA 8260	AMV	72	PASI-I

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50206626011	TB-2-20180927	EPA 8260	AMV	72	PASI-I
50206626012	MW-4-20180926	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626013	MW-7DD-20180926	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626014	MW-9-20180926	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626015	MW-11-20180926	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626016	MW-17-20180926	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626017	MW-18-20180927	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626018	MW-18D-20180927	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626019	MW-26D-20180927	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	18	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626020	MW-27D-20180927	EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626021	MW-DUP-1-20180927	EPA 8151	NPW	2	PASI-I
		EPA 8270 by SIM	TBP	20	PASI-I
		EPA 8270	TBP	47	PASI-I
		EPA 8260	AMV	72	PASI-I
50206626022	TB-3-20180927	EPA 8260	AMV	72	PASI-I

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50206626001</b>	<b>MW-6-20180926</b>					
EPA 8151	Pentachlorophenol	1.0	ug/L	1.0	10/08/18 18:18	
EPA 6010	Arsenic	20.2	ug/L	10.0	10/04/18 01:39	
EPA 6010	Arsenic, Dissolved	17.6	ug/L	10.0	10/04/18 03:04	
EPA 8270 by SIM	Acenaphthene	288	ug/L	20.0	10/05/18 14:29	
EPA 8270 by SIM	Acenaphthylene	3.6	ug/L	1.0	10/03/18 14:13	
EPA 8270 by SIM	Anthracene	5.0	ug/L	0.10	10/03/18 14:13	
EPA 8270 by SIM	Benzo(a)anthracene	0.28	ug/L	0.10	10/03/18 14:13	
EPA 8270 by SIM	Benzo(a)pyrene	0.12	ug/L	0.10	10/03/18 14:13	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.21	ug/L	0.10	10/03/18 14:13	
EPA 8270 by SIM	Fluoranthene	7.3	ug/L	1.0	10/03/18 14:13	
EPA 8270 by SIM	Fluorene	148	ug/L	20.0	10/05/18 14:29	
EPA 8270 by SIM	1-Methylnaphthalene	61.7	ug/L	1.0	10/03/18 14:13	N2
EPA 8270 by SIM	2-Methylnaphthalene	42.3	ug/L	1.0	10/03/18 14:13	
EPA 8270 by SIM	Naphthalene	977	ug/L	20.0	10/05/18 14:29	
EPA 8270 by SIM	Phenanthrene	13.4	ug/L	1.0	10/03/18 14:13	
EPA 8270 by SIM	Pyrene	3.3	ug/L	1.0	10/03/18 14:13	
EPA 8270	Dibenzofuran	125	ug/L	10.0	10/05/18 13:20	
EPA 8270	Phenol	96.9	ug/L	10.0	10/05/18 13:20	
EPA 8260	Ethylbenzene	5.2	ug/L	5.0	10/07/18 08:43	
EPA 8260	1,2,4-Trimethylbenzene	13.5	ug/L	5.0	10/07/18 08:43	
EPA 8260	1,3,5-Trimethylbenzene	5.7	ug/L	5.0	10/07/18 08:43	
<b>50206626002</b>	<b>MW-10-20180926</b>					
EPA 8270 by SIM	Acenaphthene	2.1	ug/L	1.0	10/03/18 14:25	
EPA 8270 by SIM	Benzo(a)anthracene	0.63	ug/L	0.10	10/03/18 14:25	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.13	ug/L	0.10	10/03/18 14:25	
EPA 8270 by SIM	Fluoranthene	15.6	ug/L	1.0	10/03/18 14:25	
EPA 8270 by SIM	Fluorene	1.2	ug/L	1.0	10/03/18 14:25	
EPA 8270 by SIM	Pyrene	6.6	ug/L	1.0	10/03/18 14:25	
<b>50206626003</b>	<b>MW-14D-20180926</b>					
EPA 8270 by SIM	Acenaphthene	263	ug/L	10.0	10/05/18 14:38	
EPA 8270 by SIM	Acenaphthylene	1.1	ug/L	1.0	10/03/18 14:36	
EPA 8270 by SIM	Anthracene	8.7	ug/L	0.10	10/03/18 14:36	
EPA 8270 by SIM	Benzo(a)anthracene	0.30	ug/L	0.10	10/03/18 14:36	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.14	ug/L	0.10	10/03/18 14:36	
EPA 8270 by SIM	Fluoranthene	10.9	ug/L	1.0	10/03/18 14:36	
EPA 8270 by SIM	Fluorene	134	ug/L	10.0	10/05/18 14:38	
EPA 8270 by SIM	1-Methylnaphthalene	106	ug/L	10.0	10/05/18 14:38	N2
EPA 8270 by SIM	2-Methylnaphthalene	43.6	ug/L	1.0	10/03/18 14:36	
EPA 8270 by SIM	Naphthalene	146	ug/L	10.0	10/05/18 14:38	
EPA 8270 by SIM	Phenanthrene	97.0	ug/L	10.0	10/05/18 14:38	
EPA 8270 by SIM	Pyrene	6.5	ug/L	1.0	10/03/18 14:36	
EPA 8270	Dibenzofuran	142	ug/L	10.0	10/04/18 18:08	
EPA 8260	1,2,4-Trimethylbenzene	5.6	ug/L	5.0	10/07/18 09:32	
<b>50206626004</b>	<b>MW-20-20180926</b>					
EPA 8270 by SIM	Acenaphthene	114	ug/L	5.0	10/05/18 14:48	
EPA 8270 by SIM	Anthracene	0.16	ug/L	0.10	10/03/18 14:47	

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50206626004</b>	<b>MW-20-20180926</b>					
EPA 8270 by SIM	Fluorene	4.7	ug/L	1.0	10/03/18 14:47	
<b>50206626005</b>	<b>MW-20D-20180926</b>					
EPA 8270 by SIM	Acenaphthene	113	ug/L	20.0	10/05/18 14:57	
EPA 8270 by SIM	Anthracene	3.9	ug/L	0.10	10/03/18 14:59	
EPA 8270 by SIM	Benzo(a)anthracene	0.35	ug/L	0.10	10/03/18 14:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.13	ug/L	0.10	10/03/18 14:59	
EPA 8270 by SIM	Fluoranthene	4.9	ug/L	1.0	10/03/18 14:59	
EPA 8270 by SIM	Fluorene	57.0	ug/L	1.0	10/03/18 14:59	
EPA 8270 by SIM	1-Methylnaphthalene	63.5	ug/L	1.0	10/03/18 14:59	N2
EPA 8270 by SIM	2-Methylnaphthalene	95.4	ug/L	1.0	10/03/18 14:59	
EPA 8270 by SIM	Naphthalene	1080	ug/L	20.0	10/05/18 14:57	
EPA 8270 by SIM	Phenanthrene	46.4	ug/L	1.0	10/03/18 14:59	
EPA 8270 by SIM	Pyrene	2.9	ug/L	1.0	10/03/18 14:59	
EPA 8270	Dibenzofuran	62.0	ug/L	10.0	10/04/18 18:40	
<b>50206626006</b>	<b>MW-28D-20180926</b>					
EPA 6010	Arsenic	31.3	ug/L	10.0	10/04/18 01:41	
EPA 6010	Arsenic, Dissolved	28.4	ug/L	10.0	10/04/18 03:18	
EPA 8270 by SIM	Acenaphthene	47.8	ug/L	1.0	10/03/18 15:10	
EPA 8270 by SIM	1-Methylnaphthalene	61.0	ug/L	1.0	10/03/18 15:10	N2
EPA 8270 by SIM	2-Methylnaphthalene	17.3	ug/L	1.0	10/03/18 15:10	
EPA 8270 by SIM	Naphthalene	2.4	ug/L	1.0	10/03/18 15:10	
EPA 8260	Benzene	7.3	ug/L	5.0	10/07/18 10:45	
<b>50206626008</b>	<b>MW-21D-20180927</b>					
EPA 8270 by SIM	Acenaphthene	97.6	ug/L	1.0	10/03/18 15:33	
EPA 8270 by SIM	Acenaphthylene	5.5	ug/L	1.0	10/03/18 15:33	
EPA 8270 by SIM	Anthracene	4.9	ug/L	0.10	10/03/18 15:33	
EPA 8270 by SIM	Benzo(a)anthracene	0.30	ug/L	0.10	10/03/18 15:33	
EPA 8270 by SIM	Fluoranthene	5.8	ug/L	1.0	10/03/18 15:33	
EPA 8270 by SIM	Fluorene	60.5	ug/L	1.0	10/03/18 15:33	
EPA 8270 by SIM	1-Methylnaphthalene	68.8	ug/L	1.0	10/03/18 15:33	N2
EPA 8270 by SIM	2-Methylnaphthalene	187	ug/L	20.0	10/05/18 15:07	
EPA 8270 by SIM	Naphthalene	1810	ug/L	20.0	10/05/18 15:07	
EPA 8270 by SIM	Phenanthrene	51.6	ug/L	1.0	10/03/18 15:33	
EPA 8270 by SIM	Pyrene	3.1	ug/L	1.0	10/03/18 15:33	
EPA 8270	Dibenzofuran	61.4	ug/L	10.0	10/04/18 19:29	
EPA 8270	2,4-Dimethylphenol	19.2	ug/L	10.0	10/04/18 19:29	
EPA 8270	Phenol	10.6	ug/L	10.0	10/04/18 19:29	
EPA 8260	Benzene	5.9	ug/L	5.0	10/07/18 16:03	
EPA 8260	Ethylbenzene	26.9	ug/L	5.0	10/07/18 16:03	
EPA 8260	Toluene	16.1	ug/L	5.0	10/07/18 16:03	
EPA 8260	1,2,4-Trimethylbenzene	31.5	ug/L	5.0	10/07/18 16:03	
EPA 8260	1,3,5-Trimethylbenzene	10.5	ug/L	5.0	10/07/18 16:03	
EPA 8260	Xylene (Total)	76.6	ug/L	10.0	10/07/18 16:03	
<b>50206626012</b>	<b>MW-4-20180926</b>					
EPA 8270 by SIM	Acenaphthene	55.3	ug/L	1.1	10/03/18 16:07	

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50206626012</b>	<b>MW-4-20180926</b>					
EPA 8270 by SIM	Anthracene	3.3	ug/L	0.11	10/03/18 16:07	
EPA 8270 by SIM	Benzo(a)anthracene	0.18	ug/L	0.11	10/03/18 16:07	
EPA 8270 by SIM	Fluoranthene	4.6	ug/L	1.1	10/03/18 16:07	
EPA 8270 by SIM	Fluorene	50.4	ug/L	1.1	10/03/18 16:07	
EPA 8270 by SIM	1-Methylnaphthalene	14.4	ug/L	1.1	10/03/18 16:07	N2
EPA 8270 by SIM	Naphthalene	2.4	ug/L	1.1	10/03/18 16:07	
EPA 8270 by SIM	Phenanthrene	3.8	ug/L	1.1	10/03/18 16:07	
EPA 8270 by SIM	Pyrene	2.3	ug/L	1.1	10/03/18 16:07	
EPA 8270	Dibenzofuran	44.3	ug/L	10.8	10/04/18 20:01	
<b>50206626013</b>	<b>MW-7DD-20180926</b>					
EPA 8270 by SIM	Acenaphthene	315	ug/L	20.0	10/05/18 15:16	
EPA 8270 by SIM	Acenaphthylene	2.0	ug/L	1.0	10/03/18 16:18	
EPA 8270 by SIM	Anthracene	8.2	ug/L	0.10	10/03/18 16:18	
EPA 8270 by SIM	Benzo(a)anthracene	0.32	ug/L	0.10	10/03/18 16:18	
EPA 8270 by SIM	Fluoranthene	13.4	ug/L	1.0	10/03/18 16:18	
EPA 8270 by SIM	Fluorene	157	ug/L	20.0	10/05/18 15:16	
EPA 8270 by SIM	1-Methylnaphthalene	346	ug/L	20.0	10/05/18 15:16	N2
EPA 8270 by SIM	2-Methylnaphthalene	146	ug/L	20.0	10/05/18 15:16	
EPA 8270 by SIM	Naphthalene	1010	ug/L	20.0	10/05/18 15:16	
EPA 8270 by SIM	Phenanthrene	153	ug/L	20.0	10/05/18 15:16	
EPA 8270 by SIM	Pyrene	7.8	ug/L	1.0	10/03/18 16:18	
EPA 8270	Dibenzofuran	160	ug/L	50.0	10/05/18 14:30	
EPA 8270	Phenol	2620	ug/L	500	10/05/18 14:46	
EPA 8260	Isopropylbenzene (Cumene)	9.9	ug/L	5.0	10/07/18 18:05	
EPA 8260	n-Propylbenzene	5.3	ug/L	5.0	10/07/18 18:05	
EPA 8260	1,2,4-Trimethylbenzene	50.6	ug/L	5.0	10/07/18 18:05	
EPA 8260	1,3,5-Trimethylbenzene	24.0	ug/L	5.0	10/07/18 18:05	
<b>50206626014</b>	<b>MW-9-20180926</b>					
EPA 8270 by SIM	Acenaphthene	56.5	ug/L	1.0	10/03/18 16:30	
EPA 8270 by SIM	Anthracene	3.9	ug/L	0.10	10/03/18 16:30	
EPA 8270 by SIM	Benzo(a)anthracene	0.31	ug/L	0.10	10/03/18 16:30	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.12	ug/L	0.10	10/03/18 16:30	
EPA 8270 by SIM	Fluoranthene	5.8	ug/L	1.0	10/03/18 16:30	
EPA 8270 by SIM	Fluorene	23.3	ug/L	1.0	10/03/18 16:30	
EPA 8270 by SIM	1-Methylnaphthalene	25.4	ug/L	1.0	10/03/18 16:30	N2
EPA 8270 by SIM	2-Methylnaphthalene	3.6	ug/L	1.0	10/03/18 16:30	
EPA 8270 by SIM	Naphthalene	99.2	ug/L	1.0	10/03/18 16:30	
EPA 8270 by SIM	Phenanthrene	22.8	ug/L	1.0	10/03/18 16:30	
EPA 8270 by SIM	Pyrene	3.4	ug/L	1.0	10/03/18 16:30	
EPA 8270	Dibenzofuran	36.4	ug/L	10.0	10/04/18 20:34	
EPA 8260	1,2,4-Trimethylbenzene	5.0	ug/L	5.0	10/07/18 18:30	
<b>50206626015</b>	<b>MW-11-20180926</b>					
EPA 8270 by SIM	Acenaphthene	191	ug/L	5.0	10/05/18 15:26	
EPA 8270 by SIM	Fluoranthene	4.2	ug/L	1.0	10/03/18 16:41	
EPA 8270 by SIM	Fluorene	98.0	ug/L	1.0	10/03/18 16:41	
EPA 8270 by SIM	1-Methylnaphthalene	141	ug/L	5.0	10/05/18 15:26	N2

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50206626015</b>	<b>MW-11-20180926</b>					
EPA 8270 by SIM	2-Methylnaphthalene	87.5	ug/L	5.0	10/05/18 15:26	
EPA 8270 by SIM	Naphthalene	3.4	ug/L	1.0	10/03/18 16:41	
EPA 8270 by SIM	Phenanthrene	94.4	ug/L	5.0	10/05/18 15:26	
EPA 8270 by SIM	Pyrene	1.3	ug/L	1.0	10/03/18 16:41	
EPA 8270	Dibenzofuran	136	ug/L	10.0	10/04/18 20:50	
EPA 8270	Phenol	39.5	ug/L	10.0	10/04/18 20:50	
EPA 8260	Ethylbenzene	5.4	ug/L	5.0	10/07/18 18:54	
<b>50206626017</b>	<b>MW-18-20180927</b>					
EPA 8270 by SIM	Acenaphthene	70.1	ug/L	1.2	10/03/18 17:04	M1
EPA 8270 by SIM	Anthracene	0.33	ug/L	0.12	10/03/18 17:04	
EPA 8270 by SIM	Fluorene	20.7	ug/L	1.2	10/03/18 17:04	
EPA 8270 by SIM	1-Methylnaphthalene	92.7	ug/L	1.2	10/03/18 17:04	M1,N2
EPA 8270 by SIM	2-Methylnaphthalene	10.2	ug/L	1.2	10/03/18 17:04	
EPA 8270 by SIM	Naphthalene	1.9	ug/L	1.2	10/03/18 17:04	
<b>50206626018</b>	<b>MW-18D-20180927</b>					
EPA 8270 by SIM	Acenaphthene	103	ug/L	1.1	10/03/18 17:38	
EPA 8270 by SIM	Anthracene	4.0	ug/L	0.11	10/03/18 17:38	
EPA 8270 by SIM	Benzo(a)anthracene	0.18	ug/L	0.11	10/03/18 17:38	
EPA 8270 by SIM	Fluoranthene	3.8	ug/L	1.1	10/03/18 17:38	
EPA 8270 by SIM	Fluorene	64.8	ug/L	1.1	10/03/18 17:38	
EPA 8270 by SIM	1-Methylnaphthalene	76.9	ug/L	1.1	10/03/18 17:38	N2
EPA 8270 by SIM	2-Methylnaphthalene	166	ug/L	21.1	10/05/18 15:35	
EPA 8270 by SIM	Naphthalene	1260	ug/L	21.1	10/05/18 15:35	
EPA 8270 by SIM	Phenanthrene	54.1	ug/L	1.1	10/03/18 17:38	
EPA 8270 by SIM	Pyrene	2.0	ug/L	1.1	10/03/18 17:38	
EPA 8270	Dibenzofuran	71.2	ug/L	10.5	10/04/18 22:11	
EPA 8260	Benzene	5.2	ug/L	5.0	10/07/18 19:43	
EPA 8260	Ethylbenzene	38.8	ug/L	5.0	10/07/18 19:43	
EPA 8260	Isopropylbenzene (Cumene)	5.5	ug/L	5.0	10/07/18 19:43	
EPA 8260	1,2,4-Trimethylbenzene	48.7	ug/L	5.0	10/07/18 19:43	
EPA 8260	1,3,5-Trimethylbenzene	17.5	ug/L	5.0	10/07/18 19:43	
EPA 8260	Xylene (Total)	72.4	ug/L	10.0	10/07/18 19:43	
<b>50206626019</b>	<b>MW-26D-20180927</b>					
EPA 8270 by SIM	Acenaphthene	194	ug/L	11.9	10/05/18 15:45	
EPA 8270 by SIM	Acenaphthylene	1.3	ug/L	1.2	10/03/18 17:50	
EPA 8270 by SIM	Anthracene	0.32	ug/L	0.12	10/03/18 17:50	
EPA 8270 by SIM	Fluorene	85.6	ug/L	1.2	10/03/18 17:50	
EPA 8270 by SIM	1-Methylnaphthalene	250	ug/L	11.9	10/05/18 15:45	N2
EPA 8270 by SIM	2-Methylnaphthalene	356	ug/L	11.9	10/05/18 15:45	
EPA 8270 by SIM	Naphthalene	1020	ug/L	11.9	10/05/18 15:45	
EPA 8270 by SIM	Phenanthrene	7.3	ug/L	1.2	10/03/18 17:50	
EPA 8270	Dibenzofuran	71.9	ug/L	11.9	10/04/18 22:27	
EPA 8260	Benzene	12.5	ug/L	5.0	10/07/18 20:08	
EPA 8260	Ethylbenzene	78.2	ug/L	5.0	10/07/18 20:08	
EPA 8260	Isopropylbenzene (Cumene)	12.4	ug/L	5.0	10/07/18 20:08	
EPA 8260	1,2,4-Trimethylbenzene	44.3	ug/L	5.0	10/07/18 20:08	

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>50206626019</b>	<b>MW-26D-20180927</b>					
EPA 8260	1,3,5-Trimethylbenzene	17.2	ug/L	5.0	10/07/18 20:08	
EPA 8260	Xylene (Total)	106	ug/L	10.0	10/07/18 20:08	
<b>50206626021</b>	<b>MW-DUP-1-20180927</b>					
EPA 8270	Phenol	64.4	ug/L	10.0	10/03/18 22:16	
EPA 8260	Benzene	12.0	ug/L	5.0	10/07/18 20:57	
EPA 8260	Ethylbenzene	77.8	ug/L	5.0	10/07/18 20:57	
EPA 8260	Isopropylbenzene (Cumene)	12.2	ug/L	5.0	10/07/18 20:57	
EPA 8260	1,2,4-Trimethylbenzene	42.2	ug/L	5.0	10/07/18 20:57	
EPA 8260	1,3,5-Trimethylbenzene	17.1	ug/L	5.0	10/07/18 20:57	
EPA 8260	Xylene (Total)	104	ug/L	10.0	10/07/18 20:57	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-6-20180926		Lab ID: 50206626001		Collected: 09/26/18 09:45		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	1.0	ug/L	1.0	1	10/01/18 10:12	10/08/18 18:18	87-86-5		
Surrogates									
2,4-DCAA (S)	63	%.	37-147	1	10/01/18 10:12	10/08/18 18:18	19719-28-9		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	20.2	ug/L	10.0	1	10/03/18 06:05	10/04/18 01:39	7440-38-2		
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	17.6	ug/L	10.0	1	10/03/18 13:05	10/04/18 03:04	7440-38-2		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	288	ug/L	20.0	20	10/02/18 09:03	10/05/18 14:29	83-32-9		
Acenaphthylene	3.6	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:13	208-96-8		
Anthracene	5.0	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	120-12-7		
Benzo(a)anthracene	0.28	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	56-55-3		
Benzo(a)pyrene	0.12	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	50-32-8		
Benzo(b)fluoranthene	0.21	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 14:13	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	53-70-3		
Fluoranthene	7.3	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:13	206-44-0		
Fluorene	148	ug/L	20.0	20	10/02/18 09:03	10/05/18 14:29	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:13	193-39-5		
1-Methylnaphthalene	61.7	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:13	90-12-0	N2	
2-Methylnaphthalene	42.3	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:13	91-57-6		
Naphthalene	977	ug/L	20.0	20	10/02/18 09:03	10/05/18 14:29	91-20-3		
Phenanthrene	13.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:13	85-01-8		
Pyrene	3.3	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:13	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	47	%.	10-108	1	10/02/18 09:03	10/03/18 14:13	321-60-8		
p-Terphenyl-d14 (S)	80	%.	10-167	1	10/02/18 09:03	10/03/18 14:13	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	7005-72-3		
Dibenzofuran	125	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	132-64-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-6-20180926		Lab ID: 50206626001		Collected: 09/26/18 09:45		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/05/18 13:20	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/05/18 13:20	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:20	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:20	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:20	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:20	87-86-5		
Phenol	96.9	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:20	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	52	%	22-108	1	10/02/18 09:03	10/05/18 13:20	4165-60-0		
Phenol-d5 (S)	22	%	10-61	1	10/02/18 09:03	10/05/18 13:20	4165-62-2		
2-Fluorophenol (S)	28	%	10-78	1	10/02/18 09:03	10/05/18 13:20	367-12-4		
2,4,6-Tribromophenol (S)	71	%	23-126	1	10/02/18 09:03	10/05/18 13:20	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 08:43	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 08:43	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 08:43	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 08:43	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 08:43	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 08:43	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 08:43	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 08:43	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 08:43	74-83-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-6-20180926		Lab ID: 50206626001		Collected: 09/26/18 09:45		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 08:43	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 08:43	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 08:43	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 08:43	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 08:43	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 08:43	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 08:43	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 08:43	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 08:43	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 08:43	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 08:43	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 08:43	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 08:43	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 08:43	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 08:43	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 08:43	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 08:43	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 08:43	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 08:43	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 08:43	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 08:43	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 08:43	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 08:43	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 08:43	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 08:43	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 08:43	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 08:43	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 08:43	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 08:43	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 08:43	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 08:43	10061-02-6		
Ethylbenzene	5.2	ug/L	5.0	1		10/07/18 08:43	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 08:43	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 08:43	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 08:43	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 08:43	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 08:43	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 08:43	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 08:43	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 08:43	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 08:43	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 08:43	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 08:43	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 08:43	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 08:43	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 08:43	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 08:43	127-18-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-6-20180926		Lab ID: 50206626001		Collected: 09/26/18 09:45		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Toluene	ND	ug/L	5.0	1		10/07/18 08:43	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 08:43	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 08:43	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 08:43	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 08:43	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 08:43	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 08:43	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 08:43	96-18-4		
1,2,4-Trimethylbenzene	13.5	ug/L	5.0	1		10/07/18 08:43	95-63-6		
1,3,5-Trimethylbenzene	5.7	ug/L	5.0	1		10/07/18 08:43	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 08:43	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 08:43	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 08:43	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	100	%.	89-116	1		10/07/18 08:43	1868-53-7		
4-Bromofluorobenzene (S)	101	%.	85-111	1		10/07/18 08:43	460-00-4		
Toluene-d8 (S)	96	%.	87-110	1		10/07/18 08:43	2037-26-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-10-20180926		Lab ID: 50206626002		Collected: 09/26/18 11:20		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	2.1	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	83-32-9	N2	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	208-96-8		
Anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	120-12-7		
Benzo(a)anthracene	0.63	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	50-32-8		
Benzo(b)fluoranthene	0.13	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 14:25	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	53-70-3		
Fluoranthene	15.6	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	206-44-0		
Fluorene	1.2	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:25	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	90-12-0		
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	91-57-6		
Naphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	91-20-3		
Phenanthrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	85-01-8		
Pyrene	6.6	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:25	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	41	%.	10-108	1	10/02/18 09:03	10/03/18 14:25	321-60-8		
p-Terphenyl-d14 (S)	81	%.	10-167	1	10/02/18 09:03	10/03/18 14:25	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	7005-72-3		
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/05/18 13:58	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/05/18 13:58	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:58	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	117-81-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-10-20180926		Lab ID: 50206626002		Collected: 09/26/18 11:20		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:58	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:58	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/05/18 13:58	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/05/18 13:58	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	44	%.	22-108	1	10/02/18 09:03	10/05/18 13:58	4165-60-0		
Phenol-d5 (S)	19	%.	10-61	1	10/02/18 09:03	10/05/18 13:58	4165-62-2		
2-Fluorophenol (S)	28	%.	10-78	1	10/02/18 09:03	10/05/18 13:58	367-12-4		
2,4,6-Tribromophenol (S)	50	%.	23-126	1	10/02/18 09:03	10/05/18 13:58	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 09:08	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 09:08	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 09:08	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 09:08	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 09:08	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 09:08	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 09:08	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 09:08	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 09:08	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 09:08	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:08	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:08	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:08	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 09:08	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 09:08	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 09:08	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 09:08	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 09:08	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 09:08	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 09:08	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 09:08	106-43-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-10-20180926		Lab ID: 50206626002		Collected: 09/26/18 11:20		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 09:08	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 09:08	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 09:08	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:08	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:08	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:08	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 09:08	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 09:08	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 09:08	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 09:08	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:08	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:08	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:08	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:08	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:08	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:08	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:08	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:08	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:08	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 09:08	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 09:08	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 09:08	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 09:08	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 09:08	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 09:08	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 09:08	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 09:08	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 09:08	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 09:08	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 09:08	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 09:08	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 09:08	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 09:08	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 09:08	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 09:08	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 09:08	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:08	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:08	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 09:08	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 09:08	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 09:08	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 09:08	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 09:08	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 09:08	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 09:08	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 09:08	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 09:08	75-01-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-10-20180926		Lab ID: 50206626002		Collected: 09/26/18 11:20		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 09:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		101	%.	89-116	1		10/07/18 09:08	1868-53-7	
4-Bromofluorobenzene (S)		100	%.	85-111	1		10/07/18 09:08	460-00-4	
Toluene-d8 (S)		96	%.	87-110	1		10/07/18 09:08	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-14D-20180926		Lab ID: 50206626003		Collected: 09/26/18 13:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.0	1	10/01/18 10:12	10/08/18 18:49	87-86-5		
Surrogates									
2,4-DCAA (S)	66	%.	37-147	1	10/01/18 10:12	10/08/18 18:49	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	263	ug/L	10.0	10	10/02/18 09:03	10/05/18 14:38	83-32-9		
Acenaphthylene	1.1	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:36	208-96-8		
Anthracene	8.7	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	120-12-7		
Benzo(a)anthracene	0.30	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	50-32-8		
Benzo(b)fluoranthene	0.14	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 14:36	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	53-70-3		
Fluoranthene	10.9	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:36	206-44-0		
Fluorene	134	ug/L	10.0	10	10/02/18 09:03	10/05/18 14:38	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:36	193-39-5		
1-Methylnaphthalene	106	ug/L	10.0	10	10/02/18 09:03	10/05/18 14:38	90-12-0	N2	
2-Methylnaphthalene	43.6	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:36	91-57-6		
Naphthalene	146	ug/L	10.0	10	10/02/18 09:03	10/05/18 14:38	91-20-3		
Phenanthrene	97.0	ug/L	10.0	10	10/02/18 09:03	10/05/18 14:38	85-01-8		
Pyrene	6.5	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:36	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	52	%.	10-108	1	10/02/18 09:03	10/03/18 14:36	321-60-8		
p-Terphenyl-d14 (S)	90	%.	10-167	1	10/02/18 09:03	10/03/18 14:36	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	7005-72-3		
Dibenzofuran	142	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:08	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:08	534-52-1		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-14D-20180926		Lab ID: 50206626003		Collected: 09/26/18 13:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:08	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:08	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:08	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:08	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:08	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	58	%.	22-108	1	10/02/18 09:03	10/04/18 18:08	4165-60-0		
Phenol-d5 (S)	27	%.	10-61	1	10/02/18 09:03	10/04/18 18:08	4165-62-2		
2-Fluorophenol (S)	36	%.	10-78	1	10/02/18 09:03	10/04/18 18:08	367-12-4		
2,4,6-Tribromophenol (S)	66	%.	23-126	1	10/02/18 09:03	10/04/18 18:08	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 09:32	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 09:32	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 09:32	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 09:32	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 09:32	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 09:32	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 09:32	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 09:32	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 09:32	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 09:32	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:32	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:32	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:32	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 09:32	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 09:32	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 09:32	108-90-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-14D-20180926		Lab ID: 50206626003		Collected: 09/26/18 13:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	5.0	1		10/07/18 09:32	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 09:32	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 09:32	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 09:32	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 09:32	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 09:32	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 09:32	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 09:32	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:32	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:32	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:32	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 09:32	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 09:32	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 09:32	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 09:32	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:32	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:32	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:32	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:32	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:32	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:32	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:32	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:32	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:32	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 09:32	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 09:32	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 09:32	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 09:32	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 09:32	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 09:32	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 09:32	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 09:32	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 09:32	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 09:32	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 09:32	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 09:32	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 09:32	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 09:32	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 09:32	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 09:32	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 09:32	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:32	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:32	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 09:32	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 09:32	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 09:32	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 09:32	75-69-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-14D-20180926		Lab ID: 50206626003		Collected: 09/26/18 13:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 09:32	96-18-4		
1,2,4-Trimethylbenzene	5.6	ug/L	5.0	1		10/07/18 09:32	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 09:32	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 09:32	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 09:32	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 09:32	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	102	%.	89-116	1		10/07/18 09:32	1868-53-7		
4-Bromofluorobenzene (S)	100	%.	85-111	1		10/07/18 09:32	460-00-4		
Toluene-d8 (S)	97	%.	87-110	1		10/07/18 09:32	2037-26-5		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20-20180926		Lab ID: 50206626004		Collected: 09/26/18 14:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	114	ug/L	5.0	5	10/02/18 09:03	10/05/18 14:48	83-32-9	N2	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	208-96-8		
Anthracene	0.16	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 14:47	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	206-44-0		
Fluorene	4.7	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:47	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	90-12-0		
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	91-57-6		
Naphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	91-20-3		
Phenanthrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	85-01-8		
Pyrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:47	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	49	%.	10-108	1	10/02/18 09:03	10/03/18 14:47	321-60-8		
p-Terphenyl-d14 (S)	83	%.	10-167	1	10/02/18 09:03	10/03/18 14:47	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	7005-72-3		
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:24	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:24	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:24	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	117-81-7		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20-20180926		Lab ID: 50206626004		Collected: 09/26/18 14:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:24	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:24	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:24	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:24	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	56	%.	22-108	1	10/02/18 09:03	10/04/18 18:24	4165-60-0		
Phenol-d5 (S)	21	%.	10-61	1	10/02/18 09:03	10/04/18 18:24	4165-62-2		
2-Fluorophenol (S)	29	%.	10-78	1	10/02/18 09:03	10/04/18 18:24	367-12-4		
2,4,6-Tribromophenol (S)	62	%.	23-126	1	10/02/18 09:03	10/04/18 18:24	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 09:56	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 09:56	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 09:56	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 09:56	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 09:56	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 09:56	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 09:56	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 09:56	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 09:56	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 09:56	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:56	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:56	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 09:56	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 09:56	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 09:56	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 09:56	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 09:56	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 09:56	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 09:56	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 09:56	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 09:56	106-43-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20-20180926		Lab ID: 50206626004		Collected: 09/26/18 14:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 09:56	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 09:56	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 09:56	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:56	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:56	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:56	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 09:56	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 09:56	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 09:56	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 09:56	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:56	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:56	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 09:56	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:56	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:56	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 09:56	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:56	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:56	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 09:56	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 09:56	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 09:56	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 09:56	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 09:56	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 09:56	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 09:56	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 09:56	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 09:56	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 09:56	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 09:56	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 09:56	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 09:56	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 09:56	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 09:56	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 09:56	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 09:56	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 09:56	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:56	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 09:56	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 09:56	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 09:56	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 09:56	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 09:56	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 09:56	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 09:56	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 09:56	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 09:56	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 09:56	75-01-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20-20180926		Lab ID: 50206626004		Collected: 09/26/18 14:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 09:56	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		104	%.	89-116	1		10/07/18 09:56	1868-53-7	
4-Bromofluorobenzene (S)		104	%.	85-111	1		10/07/18 09:56	460-00-4	
Toluene-d8 (S)		97	%.	87-110	1		10/07/18 09:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20D-20180926		Lab ID: 50206626005		Collected: 09/26/18 15:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.0	1	10/01/18 10:12	10/08/18 19:19	87-86-5		
Surrogates									
2,4-DCAA (S)	48	%.	37-147	1	10/01/18 10:12	10/08/18 19:19	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	113	ug/L	20.0	20	10/02/18 09:03	10/05/18 14:57	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:59	208-96-8		
Anthracene	3.9	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	120-12-7		
Benzo(a)anthracene	0.35	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	50-32-8		
Benzo(b)fluoranthene	0.13	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 14:59	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	53-70-3		
Fluoranthene	4.9	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:59	206-44-0		
Fluorene	57.0	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:59	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 14:59	193-39-5		
1-Methylnaphthalene	63.5	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:59	90-12-0	N2	
2-Methylnaphthalene	95.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:59	91-57-6		
Naphthalene	1080	ug/L	20.0	20	10/02/18 09:03	10/05/18 14:57	91-20-3		
Phenanthrene	46.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:59	85-01-8		
Pyrene	2.9	ug/L	1.0	1	10/02/18 09:03	10/03/18 14:59	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	36	%.	10-108	1	10/02/18 09:03	10/03/18 14:59	321-60-8		
p-Terphenyl-d14 (S)	69	%.	10-167	1	10/02/18 09:03	10/03/18 14:59	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	7005-72-3		
Dibenzofuran	62.0	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:40	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:40	534-52-1		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20D-20180926		Lab ID: 50206626005		Collected: 09/26/18 15:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:40	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:40	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:40	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:40	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:40	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	37	%.	22-108	1	10/02/18 09:03	10/04/18 18:40	4165-60-0		
Phenol-d5 (S)	19	%.	10-61	1	10/02/18 09:03	10/04/18 18:40	4165-62-2		
2-Fluorophenol (S)	23	%.	10-78	1	10/02/18 09:03	10/04/18 18:40	367-12-4		
2,4,6-Tribromophenol (S)	48	%.	23-126	1	10/02/18 09:03	10/04/18 18:40	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		10/07/18 10:21	67-64-1		
Acrolein	ND	ug/L	500	10		10/07/18 10:21	107-02-8		
Acrylonitrile	ND	ug/L	1000	10		10/07/18 10:21	107-13-1		
Benzene	ND	ug/L	50.0	10		10/07/18 10:21	71-43-2		
Bromobenzene	ND	ug/L	50.0	10		10/07/18 10:21	108-86-1		
Bromochloromethane	ND	ug/L	50.0	10		10/07/18 10:21	74-97-5	L1	
Bromodichloromethane	ND	ug/L	50.0	10		10/07/18 10:21	75-27-4		
Bromoform	ND	ug/L	50.0	10		10/07/18 10:21	75-25-2		
Bromomethane	ND	ug/L	50.0	10		10/07/18 10:21	74-83-9		
2-Butanone (MEK)	ND	ug/L	250	10		10/07/18 10:21	78-93-3		
n-Butylbenzene	ND	ug/L	50.0	10		10/07/18 10:21	104-51-8		
sec-Butylbenzene	ND	ug/L	50.0	10		10/07/18 10:21	135-98-8		
tert-Butylbenzene	ND	ug/L	50.0	10		10/07/18 10:21	98-06-6		
Carbon disulfide	ND	ug/L	100	10		10/07/18 10:21	75-15-0		
Carbon tetrachloride	ND	ug/L	50.0	10		10/07/18 10:21	56-23-5		
Chlorobenzene	ND	ug/L	50.0	10		10/07/18 10:21	108-90-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20D-20180926		Lab ID: 50206626005		Collected: 09/26/18 15:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	50.0	10		10/07/18 10:21	75-00-3		
Chloroform	ND	ug/L	50.0	10		10/07/18 10:21	67-66-3		
Chloromethane	ND	ug/L	50.0	10		10/07/18 10:21	74-87-3		
2-Chlorotoluene	ND	ug/L	50.0	10		10/07/18 10:21	95-49-8		
4-Chlorotoluene	ND	ug/L	50.0	10		10/07/18 10:21	106-43-4		
Dibromochloromethane	ND	ug/L	50.0	10		10/07/18 10:21	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	10		10/07/18 10:21	106-93-4		
Dibromomethane	ND	ug/L	50.0	10		10/07/18 10:21	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	50.0	10		10/07/18 10:21	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	50.0	10		10/07/18 10:21	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	50.0	10		10/07/18 10:21	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	1000	10		10/07/18 10:21	110-57-6		
Dichlorodifluoromethane	ND	ug/L	50.0	10		10/07/18 10:21	75-71-8		
1,1-Dichloroethane	ND	ug/L	50.0	10		10/07/18 10:21	75-34-3		
1,2-Dichloroethane	ND	ug/L	50.0	10		10/07/18 10:21	107-06-2		
1,1-Dichloroethene	ND	ug/L	50.0	10		10/07/18 10:21	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		10/07/18 10:21	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		10/07/18 10:21	156-60-5		
1,2-Dichloropropane	ND	ug/L	50.0	10		10/07/18 10:21	78-87-5		
1,3-Dichloropropane	ND	ug/L	50.0	10		10/07/18 10:21	142-28-9		
2,2-Dichloropropane	ND	ug/L	50.0	10		10/07/18 10:21	594-20-7		
1,1-Dichloropropene	ND	ug/L	50.0	10		10/07/18 10:21	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	50.0	10		10/07/18 10:21	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	50.0	10		10/07/18 10:21	10061-02-6		
Ethylbenzene	ND	ug/L	50.0	10		10/07/18 10:21	100-41-4		
Ethyl methacrylate	ND	ug/L	1000	10		10/07/18 10:21	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10		10/07/18 10:21	87-68-3		
n-Hexane	ND	ug/L	50.0	10		10/07/18 10:21	110-54-3		
2-Hexanone	ND	ug/L	250	10		10/07/18 10:21	591-78-6		
Iodomethane	ND	ug/L	100	10		10/07/18 10:21	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	50.0	10		10/07/18 10:21	98-82-8		
p-Isopropyltoluene	ND	ug/L	50.0	10		10/07/18 10:21	99-87-6		
Methylene Chloride	ND	ug/L	50.0	10		10/07/18 10:21	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	10		10/07/18 10:21	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	40.0	10		10/07/18 10:21	1634-04-4		
n-Propylbenzene	ND	ug/L	50.0	10		10/07/18 10:21	103-65-1		
Styrene	ND	ug/L	50.0	10		10/07/18 10:21	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		10/07/18 10:21	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	10		10/07/18 10:21	79-34-5		
Tetrachloroethene	ND	ug/L	50.0	10		10/07/18 10:21	127-18-4		
Toluene	ND	ug/L	50.0	10		10/07/18 10:21	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	50.0	10		10/07/18 10:21	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10		10/07/18 10:21	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	50.0	10		10/07/18 10:21	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	50.0	10		10/07/18 10:21	79-00-5		
Trichloroethene	ND	ug/L	50.0	10		10/07/18 10:21	79-01-6		
Trichlorofluoromethane	ND	ug/L	50.0	10		10/07/18 10:21	75-69-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-20D-20180926		Lab ID: 50206626005		Collected: 09/26/18 15:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichloropropane		ND	ug/L	50.0	10		10/07/18 10:21	96-18-4	
1,2,4-Trimethylbenzene		ND	ug/L	50.0	10		10/07/18 10:21	95-63-6	
1,3,5-Trimethylbenzene		ND	ug/L	50.0	10		10/07/18 10:21	108-67-8	
Vinyl acetate		ND	ug/L	500	10		10/07/18 10:21	108-05-4	
Vinyl chloride		ND	ug/L	20.0	10		10/07/18 10:21	75-01-4	
Xylene (Total)		ND	ug/L	100	10		10/07/18 10:21	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		100	%.	89-116	10		10/07/18 10:21	1868-53-7	D3
4-Bromofluorobenzene (S)		103	%.	85-111	10		10/07/18 10:21	460-00-4	
Toluene-d8 (S)		98	%.	87-110	10		10/07/18 10:21	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-28D-20180926		Lab ID: 50206626006		Collected: 09/26/18 16:40		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	31.3	ug/L	10.0	1	10/03/18 06:05	10/04/18 01:41	7440-38-2		
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	28.4	ug/L	10.0	1	10/03/18 13:05	10/04/18 03:18	7440-38-2		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	47.8	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	83-32-9	N2	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	208-96-8		
Anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 15:10	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	206-44-0		
Fluorene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:10	193-39-5		
1-Methylnaphthalene	61.0	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	90-12-0		
2-Methylnaphthalene	17.3	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	91-57-6		
Naphthalene	2.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	91-20-3		
Phenanthrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	85-01-8		
Pyrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:10	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	48	%.	10-108	1	10/02/18 09:03	10/03/18 15:10	321-60-8		
p-Terphenyl-d14 (S)	81	%.	10-167	1	10/02/18 09:03	10/03/18 15:10	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	7005-72-3		
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:57	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	131-11-3		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-28D-20180926		Lab ID: 50206626006		Collected: 09/26/18 16:40		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 18:57	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:57	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:57	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:57	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 18:57	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 18:57	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	52	%.	22-108	1	10/02/18 09:03	10/04/18 18:57	4165-60-0		
Phenol-d5 (S)	24	%.	10-61	1	10/02/18 09:03	10/04/18 18:57	4165-62-2		
2-Fluorophenol (S)	33	%.	10-78	1	10/02/18 09:03	10/04/18 18:57	367-12-4		
2,4,6-Tribromophenol (S)	61	%.	23-126	1	10/02/18 09:03	10/04/18 18:57	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 10:45	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 10:45	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 10:45	107-13-1		
Benzene	7.3	ug/L	5.0	1		10/07/18 10:45	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 10:45	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 10:45	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 10:45	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 10:45	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 10:45	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 10:45	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 10:45	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 10:45	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 10:45	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 10:45	75-15-0		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-28D-20180926		Lab ID: 50206626006		Collected: 09/26/18 16:40		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 10:45	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 10:45	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 10:45	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 10:45	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 10:45	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 10:45	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 10:45	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 10:45	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 10:45	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 10:45	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 10:45	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 10:45	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 10:45	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 10:45	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 10:45	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 10:45	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 10:45	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 10:45	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 10:45	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 10:45	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 10:45	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 10:45	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 10:45	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 10:45	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 10:45	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 10:45	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 10:45	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 10:45	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 10:45	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 10:45	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 10:45	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 10:45	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 10:45	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 10:45	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 10:45	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 10:45	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 10:45	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 10:45	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 10:45	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 10:45	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 10:45	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 10:45	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 10:45	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 10:45	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 10:45	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 10:45	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 10:45	79-00-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-28D-20180926		Lab ID: 50206626006		Collected: 09/26/18 16:40		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Trichloroethene	ND	ug/L	5.0	1		10/07/18 10:45	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 10:45	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 10:45	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 10:45	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 10:45	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 10:45	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 10:45	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 10:45	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	100	%.	89-116	1		10/07/18 10:45	1868-53-7		
4-Bromofluorobenzene (S)	102	%.	85-111	1		10/07/18 10:45	460-00-4		
Toluene-d8 (S)	96	%.	87-110	1		10/07/18 10:45	2037-26-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-22-20180927		Lab ID: 50206626007		Collected: 09/27/18 10:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	83-32-9	N2	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	208-96-8		
Anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 15:22	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	206-44-0		
Fluorene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:22	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	90-12-0		
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	91-57-6		
Naphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	91-20-3		
Phenanthrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	85-01-8		
Pyrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:22	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	69	%.	10-108	1	10/02/18 09:03	10/03/18 15:22	321-60-8		
p-Terphenyl-d14 (S)	106	%.	10-167	1	10/02/18 09:03	10/03/18 15:22	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	7005-72-3		
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 19:13	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 19:13	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:13	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	117-81-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-22-20180927		Lab ID: 50206626007		Collected: 09/27/18 10:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:13	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:13	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:13	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:13	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	75	%.	22-108	1	10/02/18 09:03	10/04/18 19:13	4165-60-0		
Phenol-d5 (S)	32	%.	10-61	1	10/02/18 09:03	10/04/18 19:13	4165-62-2		
2-Fluorophenol (S)	49	%.	10-78	1	10/02/18 09:03	10/04/18 19:13	367-12-4		
2,4,6-Tribromophenol (S)	78	%.	23-126	1	10/02/18 09:03	10/04/18 19:13	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 11:10	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 11:10	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 11:10	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 11:10	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 11:10	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 11:10	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 11:10	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 11:10	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 11:10	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 11:10	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 11:10	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 11:10	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 11:10	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 11:10	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 11:10	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 11:10	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 11:10	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 11:10	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 11:10	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 11:10	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 11:10	106-43-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-22-20180927		Lab ID: 50206626007		Collected: 09/27/18 10:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 11:10	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 11:10	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 11:10	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:10	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:10	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:10	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 11:10	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 11:10	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 11:10	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 11:10	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 11:10	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 11:10	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 11:10	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 11:10	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 11:10	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 11:10	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 11:10	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 11:10	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 11:10	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 11:10	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 11:10	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 11:10	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 11:10	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 11:10	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 11:10	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 11:10	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 11:10	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 11:10	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 11:10	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 11:10	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 11:10	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 11:10	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 11:10	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 11:10	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 11:10	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 11:10	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:10	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:10	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 11:10	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 11:10	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 11:10	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 11:10	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 11:10	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 11:10	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 11:10	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 11:10	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 11:10	75-01-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-22-20180927		Lab ID: 50206626007		Collected: 09/27/18 10:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 11:10	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		99	%.	89-116	1		10/07/18 11:10	1868-53-7	
4-Bromofluorobenzene (S)		103	%.	85-111	1		10/07/18 11:10	460-00-4	
Toluene-d8 (S)		96	%.	87-110	1		10/07/18 11:10	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-21D-20180927		Lab ID: 50206626008		Collected: 09/27/18 11:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.1	1	10/01/18 10:12	10/08/18 19:50	87-86-5		
Surrogates									
2,4-DCAA (S)	58	%.	37-147	1	10/01/18 10:12	10/08/18 19:50	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	97.6	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:33	83-32-9		
Acenaphthylene	5.5	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:33	208-96-8		
Anthracene	4.9	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	120-12-7		
Benzo(a)anthracene	0.30	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 15:33	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	53-70-3		
Fluoranthene	5.8	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:33	206-44-0		
Fluorene	60.5	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:33	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:33	193-39-5		
1-Methylnaphthalene	68.8	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:33	90-12-0	N2	
2-Methylnaphthalene	187	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:07	91-57-6		
Naphthalene	1810	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:07	91-20-3		
Phenanthrene	51.6	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:33	85-01-8		
Pyrene	3.1	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:33	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	48	%.	10-108	1	10/02/18 09:03	10/03/18 15:33	321-60-8		
p-Terphenyl-d14 (S)	87	%.	10-167	1	10/02/18 09:03	10/03/18 15:33	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	7005-72-3		
Dibenzofuran	61.4	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 19:29	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	84-66-2		
2,4-Dimethylphenol	19.2	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 19:29	534-52-1		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-21D-20180927		Lab ID: 50206626008		Collected: 09/27/18 11:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:29	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:29	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:29	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:29	87-86-5		
Phenol	10.6	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:29	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	52	%.	22-108	1	10/02/18 09:03	10/04/18 19:29	4165-60-0		
Phenol-d5 (S)	22	%.	10-61	1	10/02/18 09:03	10/04/18 19:29	4165-62-2		
2-Fluorophenol (S)	32	%.	10-78	1	10/02/18 09:03	10/04/18 19:29	367-12-4		
2,4,6-Tribromophenol (S)	68	%.	23-126	1	10/02/18 09:03	10/04/18 19:29	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 16:03	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 16:03	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 16:03	107-13-1		
Benzene	5.9	ug/L	5.0	1		10/07/18 16:03	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 16:03	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 16:03	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 16:03	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 16:03	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 16:03	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 16:03	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:03	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:03	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:03	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 16:03	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 16:03	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 16:03	108-90-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-21D-20180927		Lab ID: 50206626008		Collected: 09/27/18 11:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	5.0	1		10/07/18 16:03	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 16:03	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 16:03	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 16:03	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 16:03	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 16:03	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 16:03	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 16:03	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:03	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:03	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:03	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 16:03	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 16:03	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 16:03	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 16:03	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:03	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:03	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:03	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:03	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:03	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:03	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:03	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:03	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:03	10061-02-6		
Ethylbenzene	26.9	ug/L	5.0	1		10/07/18 16:03	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 16:03	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 16:03	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 16:03	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 16:03	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 16:03	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 16:03	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 16:03	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 16:03	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 16:03	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 16:03	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 16:03	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 16:03	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 16:03	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 16:03	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 16:03	127-18-4		
Toluene	16.1	ug/L	5.0	1		10/07/18 16:03	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:03	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:03	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 16:03	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 16:03	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 16:03	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 16:03	75-69-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-21D-20180927		Lab ID: 50206626008		Collected: 09/27/18 11:15		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichloropropane		ND	ug/L	5.0	1		10/07/18 16:03	96-18-4	
1,2,4-Trimethylbenzene		31.5	ug/L	5.0	1		10/07/18 16:03	95-63-6	
1,3,5-Trimethylbenzene		10.5	ug/L	5.0	1		10/07/18 16:03	108-67-8	
Vinyl acetate		ND	ug/L	50.0	1		10/07/18 16:03	108-05-4	
Vinyl chloride		ND	ug/L	2.0	1		10/07/18 16:03	75-01-4	
Xylene (Total)		76.6	ug/L	10.0	1		10/07/18 16:03	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		103	%.	89-116	1		10/07/18 16:03	1868-53-7	
4-Bromofluorobenzene (S)		100	%.	85-111	1		10/07/18 16:03	460-00-4	
Toluene-d8 (S)		98	%.	87-110	1		10/07/18 16:03	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: EB-1-20180927		Lab ID: 50206626009		Collected: 09/27/18 13:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.0	1	10/01/18 10:12	10/08/18 20:20	87-86-5		
Surrogates									
2,4-DCAA (S)	79	%.	37-147	1	10/01/18 10:12	10/08/18 20:20	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	208-96-8		
Anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 15:55	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	206-44-0		
Fluorene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 15:55	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	91-57-6		
Naphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	91-20-3		
Phenanthrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	85-01-8		
Pyrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 15:55	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	48	%.	10-108	1	10/02/18 09:03	10/03/18 15:55	321-60-8		
p-Terphenyl-d14 (S)	81	%.	10-167	1	10/02/18 09:03	10/03/18 15:55	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	7005-72-3		
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 19:45	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 19:45	534-52-1		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: EB-1-20180927		Lab ID: 50206626009		Collected: 09/27/18 13:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:45	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:45	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:45	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 19:45	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 19:45	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	50	%.	22-108	1	10/02/18 09:03	10/04/18 19:45	4165-60-0		
Phenol-d5 (S)	21	%.	10-61	1	10/02/18 09:03	10/04/18 19:45	4165-62-2		
2-Fluorophenol (S)	32	%.	10-78	1	10/02/18 09:03	10/04/18 19:45	367-12-4		
2,4,6-Tribromophenol (S)	54	%.	23-126	1	10/02/18 09:03	10/04/18 19:45	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 16:28	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 16:28	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 16:28	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 16:28	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 16:28	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 16:28	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 16:28	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 16:28	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 16:28	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 16:28	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:28	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:28	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:28	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 16:28	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 16:28	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 16:28	108-90-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: EB-1-20180927		Lab ID: 50206626009		Collected: 09/27/18 13:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	5.0	1		10/07/18 16:28	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 16:28	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 16:28	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 16:28	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 16:28	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 16:28	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 16:28	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 16:28	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:28	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:28	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:28	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 16:28	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 16:28	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 16:28	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 16:28	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:28	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:28	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:28	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:28	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:28	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:28	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:28	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:28	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:28	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 16:28	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 16:28	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 16:28	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 16:28	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 16:28	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 16:28	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 16:28	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 16:28	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 16:28	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 16:28	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 16:28	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 16:28	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 16:28	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 16:28	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 16:28	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 16:28	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 16:28	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:28	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:28	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 16:28	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 16:28	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 16:28	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 16:28	75-69-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: EB-1-20180927		Lab ID: 50206626009		Collected: 09/27/18 13:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 16:28	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 16:28	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 16:28	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 16:28	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 16:28	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 16:28	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	104	%.	89-116	1		10/07/18 16:28	1868-53-7		
4-Bromofluorobenzene (S)	102	%.	85-111	1		10/07/18 16:28	460-00-4		
Toluene-d8 (S)	95	%.	87-110	1		10/07/18 16:28	2037-26-5		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: TB-1-20180926		Lab ID: 50206626010		Collected: 09/26/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 16:52	67-64-1	L1	
Acrolein	ND	ug/L	50.0	1		10/07/18 16:52	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 16:52	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 16:52	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 16:52	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 16:52	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 16:52	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 16:52	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 16:52	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 16:52	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:52	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:52	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 16:52	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 16:52	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 16:52	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 16:52	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 16:52	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 16:52	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 16:52	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 16:52	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 16:52	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 16:52	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 16:52	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 16:52	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:52	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:52	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:52	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 16:52	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 16:52	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 16:52	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 16:52	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:52	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:52	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 16:52	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:52	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:52	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 16:52	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:52	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:52	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 16:52	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 16:52	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 16:52	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 16:52	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 16:52	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 16:52	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 16:52	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 16:52	98-82-8		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: TB-1-20180926		Lab ID: 50206626010		Collected: 09/26/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 16:52	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 16:52	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 16:52	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 16:52	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 16:52	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 16:52	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 16:52	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 16:52	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 16:52	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 16:52	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:52	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 16:52	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 16:52	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 16:52	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 16:52	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 16:52	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 16:52	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 16:52	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 16:52	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 16:52	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 16:52	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 16:52	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	103	%.	89-116	1		10/07/18 16:52	1868-53-7		
4-Bromofluorobenzene (S)	104	%.	85-111	1		10/07/18 16:52	460-00-4		
Toluene-d8 (S)	97	%.	87-110	1		10/07/18 16:52	2037-26-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: TB-2-20180927		Lab ID: 50206626011		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 17:17	67-64-1	L1	
Acrolein	ND	ug/L	50.0	1		10/07/18 17:17	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 17:17	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 17:17	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 17:17	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 17:17	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 17:17	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 17:17	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 17:17	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 17:17	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 17:17	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 17:17	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 17:17	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 17:17	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 17:17	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 17:17	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 17:17	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 17:17	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 17:17	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 17:17	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 17:17	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 17:17	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 17:17	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 17:17	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:17	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:17	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:17	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 17:17	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 17:17	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 17:17	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 17:17	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 17:17	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 17:17	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 17:17	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 17:17	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 17:17	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 17:17	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 17:17	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 17:17	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 17:17	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 17:17	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 17:17	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 17:17	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 17:17	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 17:17	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 17:17	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 17:17	98-82-8		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: TB-2-20180927		Lab ID: 50206626011		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 17:17	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 17:17	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 17:17	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 17:17	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 17:17	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 17:17	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 17:17	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 17:17	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 17:17	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 17:17	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:17	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:17	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 17:17	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 17:17	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 17:17	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 17:17	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 17:17	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 17:17	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 17:17	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 17:17	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 17:17	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 17:17	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	103	%.	89-116	1		10/07/18 17:17	1868-53-7		
4-Bromofluorobenzene (S)	103	%.	85-111	1		10/07/18 17:17	460-00-4		
Toluene-d8 (S)	96	%.	87-110	1		10/07/18 17:17	2037-26-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-4-20180926		Lab ID: 50206626012		Collected: 09/26/18 10:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.0	1	10/01/18 10:12	10/08/18 20:50	87-86-5		
Surrogates									
2,4-DCAA (S)	63	%.	37-147	1	10/01/18 10:12	10/08/18 20:50	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	55.3	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	83-32-9		
Acenaphthylene	ND	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	208-96-8		
Anthracene	3.3	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	120-12-7		
Benzo(a)anthracene	0.18	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	207-08-9		
Chrysene	ND	ug/L	0.54	1	10/02/18 09:03	10/03/18 16:07	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	53-70-3		
Fluoranthene	4.6	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	206-44-0		
Fluorene	50.4	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 16:07	193-39-5		
1-Methylnaphthalene	14.4	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	91-57-6		
Naphthalene	2.4	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	91-20-3		
Phenanthrene	3.8	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	85-01-8		
Pyrene	2.3	ug/L	1.1	1	10/02/18 09:03	10/03/18 16:07	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	42	%.	10-108	1	10/02/18 09:03	10/03/18 16:07	321-60-8		
p-Terphenyl-d14 (S)	72	%.	10-167	1	10/02/18 09:03	10/03/18 16:07	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	59-50-7		
4-Chloroaniline	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	91-58-7		
2-Chlorophenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	7005-72-3		
Dibenzofuran	44.3	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	21.5	1	10/02/18 09:03	10/04/18 20:01	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	120-83-2		
Diethylphthalate	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	105-67-9		
Dimethylphthalate	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	21.5	1	10/02/18 09:03	10/04/18 20:01	534-52-1		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-4-20180926		Lab ID: 50206626012		Collected: 09/26/18 10:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrophenol	ND	ug/L	53.8	1	10/02/18 09:03	10/04/18 20:01	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	87-68-3		
Hexachlorobenzene	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	77-47-4		
Hexachloroethane	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	67-72-1		
Isophorone	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01			
2-Nitroaniline	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	88-74-4		
3-Nitroaniline	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	99-09-2		
4-Nitroaniline	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	100-01-6		
Nitrobenzene	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	98-95-3		
2-Nitrophenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	88-75-5		
4-Nitrophenol	ND	ug/L	53.8	1	10/02/18 09:03	10/04/18 20:01	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	53.8	1	10/02/18 09:03	10/04/18 20:01	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	86-30-6		
Pentachlorophenol	ND	ug/L	53.8	1	10/02/18 09:03	10/04/18 20:01	87-86-5		
Phenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.8	1	10/02/18 09:03	10/04/18 20:01	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	45	%.	22-108	1	10/02/18 09:03	10/04/18 20:01	4165-60-0		
Phenol-d5 (S)	22	%.	10-61	1	10/02/18 09:03	10/04/18 20:01	4165-62-2		
2-Fluorophenol (S)	32	%.	10-78	1	10/02/18 09:03	10/04/18 20:01	367-12-4		
2,4,6-Tribromophenol (S)	55	%.	23-126	1	10/02/18 09:03	10/04/18 20:01	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 17:41	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 17:41	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 17:41	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 17:41	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 17:41	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 17:41	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 17:41	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 17:41	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 17:41	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 17:41	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 17:41	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 17:41	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 17:41	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 17:41	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 17:41	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 17:41	108-90-7		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-4-20180926		Lab ID: 50206626012		Collected: 09/26/18 10:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	5.0	1		10/07/18 17:41	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 17:41	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 17:41	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 17:41	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 17:41	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 17:41	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 17:41	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 17:41	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:41	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:41	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:41	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 17:41	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 17:41	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 17:41	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 17:41	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 17:41	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 17:41	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 17:41	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 17:41	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 17:41	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 17:41	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 17:41	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 17:41	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 17:41	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 17:41	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 17:41	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 17:41	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 17:41	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 17:41	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 17:41	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 17:41	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 17:41	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 17:41	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 17:41	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 17:41	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 17:41	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 17:41	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 17:41	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 17:41	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 17:41	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 17:41	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:41	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 17:41	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 17:41	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 17:41	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 17:41	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 17:41	75-69-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-4-20180926		Lab ID: 50206626012		Collected: 09/26/18 10:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichloropropane		ND	ug/L	5.0	1		10/07/18 17:41	96-18-4	
1,2,4-Trimethylbenzene		ND	ug/L	5.0	1		10/07/18 17:41	95-63-6	
1,3,5-Trimethylbenzene		ND	ug/L	5.0	1		10/07/18 17:41	108-67-8	
Vinyl acetate		ND	ug/L	50.0	1		10/07/18 17:41	108-05-4	
Vinyl chloride		ND	ug/L	2.0	1		10/07/18 17:41	75-01-4	
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 17:41	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		102	%.	89-116	1		10/07/18 17:41	1868-53-7	
4-Bromofluorobenzene (S)		102	%.	85-111	1		10/07/18 17:41	460-00-4	
Toluene-d8 (S)		96	%.	87-110	1		10/07/18 17:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-7DD-20180926		Lab ID: 50206626013		Collected: 09/26/18 12:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	315	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:16	83-32-9	N2	
Acenaphthylene	2.0	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:18	208-96-8		
Anthracene	8.2	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	120-12-7		
Benzo(a)anthracene	0.32	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 16:18	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	53-70-3		
Fluoranthene	13.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:18	206-44-0		
Fluorene	157	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:16	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:18	193-39-5		
1-Methylnaphthalene	346	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:16	90-12-0		
2-Methylnaphthalene	146	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:16	91-57-6		
Naphthalene	1010	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:16	91-20-3		
Phenanthrene	153	ug/L	20.0	20	10/02/18 09:03	10/05/18 15:16	85-01-8		
Pyrene	7.8	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:18	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	30	%.	10-108	1	10/02/18 09:03	10/03/18 16:18	321-60-8		
p-Terphenyl-d14 (S)	71	%.	10-167	1	10/02/18 09:03	10/03/18 16:18	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	7005-72-3		
Dibenzofuran	160	ug/L	50.0	5	10/02/18 09:03	10/05/18 14:30	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 20:17	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 20:17	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:17	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	117-81-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-7DD-20180926		Lab ID: 50206626013		Collected: 09/26/18 12:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:17	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:17	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:17	87-86-5		
Phenol	2620	ug/L	500	50	10/02/18 09:03	10/05/18 14:46	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:17	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	40	%.	22-108	1	10/02/18 09:03	10/04/18 20:17	4165-60-0		
Phenol-d5 (S)	17	%.	10-61	1	10/02/18 09:03	10/04/18 20:17	4165-62-2		
2-Fluorophenol (S)	22	%.	10-78	1	10/02/18 09:03	10/04/18 20:17	367-12-4		
2,4,6-Tribromophenol (S)	53	%.	23-126	1	10/02/18 09:03	10/04/18 20:17	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 18:05	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 18:05	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 18:05	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 18:05	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 18:05	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 18:05	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 18:05	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 18:05	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 18:05	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 18:05	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:05	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:05	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:05	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 18:05	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 18:05	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 18:05	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 18:05	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 18:05	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 18:05	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 18:05	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 18:05	106-43-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-7DD-20180926		Lab ID: 50206626013		Collected: 09/26/18 12:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 18:05	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 18:05	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 18:05	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:05	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:05	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:05	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 18:05	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 18:05	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 18:05	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 18:05	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:05	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:05	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:05	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:05	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:05	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:05	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:05	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:05	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:05	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 18:05	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 18:05	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 18:05	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 18:05	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 18:05	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 18:05	74-88-4		
Isopropylbenzene (Cumene)	9.9	ug/L	5.0	1		10/07/18 18:05	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 18:05	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 18:05	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 18:05	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 18:05	1634-04-4		
n-Propylbenzene	5.3	ug/L	5.0	1		10/07/18 18:05	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 18:05	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 18:05	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 18:05	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 18:05	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 18:05	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:05	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:05	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 18:05	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 18:05	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 18:05	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 18:05	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 18:05	96-18-4		
1,2,4-Trimethylbenzene	50.6	ug/L	5.0	1		10/07/18 18:05	95-63-6		
1,3,5-Trimethylbenzene	24.0	ug/L	5.0	1		10/07/18 18:05	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 18:05	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 18:05	75-01-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-7DD-20180926		Lab ID: 50206626013		Collected: 09/26/18 12:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 18:05	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		104	%.	89-116	1		10/07/18 18:05	1868-53-7	
4-Bromofluorobenzene (S)		101	%.	85-111	1		10/07/18 18:05	460-00-4	
Toluene-d8 (S)		96	%.	87-110	1		10/07/18 18:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-9-20180926		Lab ID: 50206626014		Collected: 09/26/18 14:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	56.5	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	83-32-9	N2	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	208-96-8		
Anthracene	3.9	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	120-12-7		
Benzo(a)anthracene	0.31	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	50-32-8		
Benzo(b)fluoranthene	0.12	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 16:30	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	53-70-3		
Fluoranthene	5.8	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	206-44-0		
Fluorene	23.3	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:30	193-39-5		
1-Methylnaphthalene	25.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	90-12-0		
2-Methylnaphthalene	3.6	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	91-57-6		
Naphthalene	99.2	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	91-20-3		
Phenanthrene	22.8	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	85-01-8		
Pyrene	3.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:30	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	42	%.	10-108	1	10/02/18 09:03	10/03/18 16:30	321-60-8		
p-Terphenyl-d14 (S)	71	%.	10-167	1	10/02/18 09:03	10/03/18 16:30	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	7005-72-3		
Dibenzofuran	36.4	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 20:34	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 20:34	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:34	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	117-81-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-9-20180926		Lab ID: 50206626014		Collected: 09/26/18 14:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:34	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:34	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:34	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:34	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	45	%.	22-108	1	10/02/18 09:03	10/04/18 20:34	4165-60-0		
Phenol-d5 (S)	20	%.	10-61	1	10/02/18 09:03	10/04/18 20:34	4165-62-2		
2-Fluorophenol (S)	28	%.	10-78	1	10/02/18 09:03	10/04/18 20:34	367-12-4		
2,4,6-Tribromophenol (S)	54	%.	23-126	1	10/02/18 09:03	10/04/18 20:34	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 18:30	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 18:30	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 18:30	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 18:30	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 18:30	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 18:30	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 18:30	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 18:30	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 18:30	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 18:30	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:30	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:30	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:30	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 18:30	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 18:30	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 18:30	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 18:30	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 18:30	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 18:30	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 18:30	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 18:30	106-43-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-9-20180926		Lab ID: 50206626014		Collected: 09/26/18 14:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 18:30	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 18:30	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 18:30	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:30	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:30	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:30	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 18:30	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 18:30	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 18:30	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 18:30	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:30	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:30	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:30	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:30	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:30	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:30	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:30	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:30	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:30	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 18:30	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 18:30	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 18:30	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 18:30	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 18:30	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 18:30	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 18:30	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 18:30	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 18:30	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 18:30	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 18:30	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 18:30	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 18:30	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 18:30	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 18:30	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 18:30	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 18:30	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:30	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:30	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 18:30	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 18:30	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 18:30	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 18:30	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 18:30	96-18-4		
1,2,4-Trimethylbenzene	5.0	ug/L	5.0	1		10/07/18 18:30	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 18:30	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 18:30	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 18:30	75-01-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-9-20180926		Lab ID: 50206626014		Collected: 09/26/18 14:35		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 18:30	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		104	%.	89-116	1		10/07/18 18:30	1868-53-7	
4-Bromofluorobenzene (S)		104	%.	85-111	1		10/07/18 18:30	460-00-4	
Toluene-d8 (S)		96	%.	87-110	1		10/07/18 18:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-11-20180926		Lab ID: 50206626015		Collected: 09/26/18 15:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	191	ug/L	5.0	5	10/02/18 09:03	10/05/18 15:26	83-32-9	N2	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:41	208-96-8		
Anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 16:41	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	53-70-3		
Fluoranthene	4.2	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:41	206-44-0		
Fluorene	98.0	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:41	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:41	193-39-5		
1-Methylnaphthalene	141	ug/L	5.0	5	10/02/18 09:03	10/05/18 15:26	90-12-0		
2-Methylnaphthalene	87.5	ug/L	5.0	5	10/02/18 09:03	10/05/18 15:26	91-57-6		
Naphthalene	3.4	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:41	91-20-3		
Phenanthrene	94.4	ug/L	5.0	5	10/02/18 09:03	10/05/18 15:26	85-01-8		
Pyrene	1.3	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:41	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	36	%.	10-108	1	10/02/18 09:03	10/03/18 16:41	321-60-8		
p-Terphenyl-d14 (S)	76	%.	10-167	1	10/02/18 09:03	10/03/18 16:41	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	7005-72-3		
Dibenzofuran	136	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 20:50	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 20:50	534-52-1		
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:50	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	117-81-7		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-11-20180926		Lab ID: 50206626015		Collected: 09/26/18 15:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:50	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:50	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 20:50	87-86-5		
Phenol	39.5	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 20:50	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	49	%.	22-108	1	10/02/18 09:03	10/04/18 20:50	4165-60-0		
Phenol-d5 (S)	20	%.	10-61	1	10/02/18 09:03	10/04/18 20:50	4165-62-2		
2-Fluorophenol (S)	27	%.	10-78	1	10/02/18 09:03	10/04/18 20:50	367-12-4		
2,4,6-Tribromophenol (S)	63	%.	23-126	1	10/02/18 09:03	10/04/18 20:50	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 18:54	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 18:54	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 18:54	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 18:54	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 18:54	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 18:54	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 18:54	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 18:54	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 18:54	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 18:54	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:54	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:54	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 18:54	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 18:54	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 18:54	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 18:54	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 18:54	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 18:54	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 18:54	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 18:54	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 18:54	106-43-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-11-20180926		Lab ID: 50206626015		Collected: 09/26/18 15:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 18:54	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 18:54	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 18:54	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:54	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:54	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:54	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 18:54	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 18:54	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 18:54	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 18:54	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:54	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:54	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 18:54	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:54	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:54	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 18:54	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:54	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:54	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 18:54	10061-02-6		
Ethylbenzene	5.4	ug/L	5.0	1		10/07/18 18:54	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 18:54	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 18:54	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 18:54	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 18:54	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 18:54	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 18:54	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 18:54	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 18:54	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 18:54	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 18:54	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 18:54	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 18:54	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 18:54	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 18:54	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 18:54	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 18:54	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:54	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 18:54	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 18:54	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 18:54	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 18:54	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 18:54	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 18:54	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 18:54	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 18:54	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 18:54	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 18:54	75-01-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-11-20180926		Lab ID: 50206626015		Collected: 09/26/18 15:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 18:54	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		104	%.	89-116	1		10/07/18 18:54	1868-53-7	
4-Bromofluorobenzene (S)		103	%.	85-111	1		10/07/18 18:54	460-00-4	
Toluene-d8 (S)		97	%.	87-110	1		10/07/18 18:54	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-17-20180926		Lab ID: 50206626016		Collected: 09/26/18 17:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.1	1	10/01/18 10:12	10/08/18 21:21	87-86-5		
Surrogates									
2,4-DCAA (S)	67	%.	37-147	1	10/01/18 10:12	10/08/18 21:21	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	208-96-8		
Anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 09:03	10/03/18 16:52	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	206-44-0		
Fluorene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 09:03	10/03/18 16:52	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	91-57-6		
Naphthalene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	91-20-3		
Phenanthrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	85-01-8		
Pyrene	ND	ug/L	1.0	1	10/02/18 09:03	10/03/18 16:52	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	35	%.	10-108	1	10/02/18 09:03	10/03/18 16:52	321-60-8		
p-Terphenyl-d14 (S)	79	%.	10-167	1	10/02/18 09:03	10/03/18 16:52	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	7005-72-3		
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 21:06	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 09:03	10/04/18 21:06	534-52-1		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-17-20180926		Lab ID: 50206626016		Collected: 09/26/18 17:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 21:06	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 21:06	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 21:06	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 09:03	10/04/18 21:06	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 09:03	10/04/18 21:06	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	39	%.	22-108	1	10/02/18 09:03	10/04/18 21:06	4165-60-0		
Phenol-d5 (S)	17	%.	10-61	1	10/02/18 09:03	10/04/18 21:06	4165-62-2		
2-Fluorophenol (S)	22	%.	10-78	1	10/02/18 09:03	10/04/18 21:06	367-12-4		
2,4,6-Tribromophenol (S)	52	%.	23-126	1	10/02/18 09:03	10/04/18 21:06	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 19:19	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 19:19	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 19:19	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 19:19	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 19:19	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 19:19	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 19:19	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 19:19	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 19:19	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 19:19	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 19:19	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 19:19	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 19:19	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 19:19	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 19:19	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 19:19	108-90-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-17-20180926		Lab ID: 50206626016		Collected: 09/26/18 17:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	5.0	1		10/07/18 19:19	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 19:19	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 19:19	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 19:19	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 19:19	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 19:19	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 19:19	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 19:19	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:19	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:19	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:19	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 19:19	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 19:19	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 19:19	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 19:19	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 19:19	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 19:19	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 19:19	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 19:19	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 19:19	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 19:19	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 19:19	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 19:19	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 19:19	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 19:19	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 19:19	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 19:19	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 19:19	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 19:19	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 19:19	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 19:19	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 19:19	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 19:19	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 19:19	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 19:19	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 19:19	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 19:19	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 19:19	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 19:19	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 19:19	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 19:19	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:19	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:19	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 19:19	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 19:19	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 19:19	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 19:19	75-69-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-17-20180926		Lab ID: 50206626016		Collected: 09/26/18 17:30		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichloropropane		ND	ug/L	5.0	1		10/07/18 19:19	96-18-4	
1,2,4-Trimethylbenzene		ND	ug/L	5.0	1		10/07/18 19:19	95-63-6	
1,3,5-Trimethylbenzene		ND	ug/L	5.0	1		10/07/18 19:19	108-67-8	
Vinyl acetate		ND	ug/L	50.0	1		10/07/18 19:19	108-05-4	
Vinyl chloride		ND	ug/L	2.0	1		10/07/18 19:19	75-01-4	
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 19:19	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		102	%.	89-116	1		10/07/18 19:19	1868-53-7	
4-Bromofluorobenzene (S)		104	%.	85-111	1		10/07/18 19:19	460-00-4	
Toluene-d8 (S)		94	%.	87-110	1		10/07/18 19:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18-20180927		Lab ID: 50206626017		Collected: 09/27/18 09:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	70.1	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	83-32-9	M1	
Acenaphthylene	ND	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	208-96-8		
Anthracene	0.33	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	207-08-9		
Chrysene	ND	ug/L	0.62	1	10/02/18 09:03	10/03/18 17:04	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	53-70-3		
Fluoranthene	ND	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	206-44-0		
Fluorene	20.7	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:04	193-39-5		
1-Methylnaphthalene	92.7	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	90-12-0	M1,N2	
2-Methylnaphthalene	10.2	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	91-57-6		
Naphthalene	1.9	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	91-20-3		
Phenanthrene	ND	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	85-01-8		
Pyrene	ND	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:04	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	42	%.	10-108	1	10/02/18 09:03	10/03/18 17:04	321-60-8		
p-Terphenyl-d14 (S)	84	%.	10-167	1	10/02/18 09:03	10/03/18 17:04	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	101-55-3		
Butylbenzylphthalate	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	59-50-7		
4-Chloroaniline	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	108-60-1		
2-Chloronaphthalene	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	91-58-7		
2-Chlorophenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	7005-72-3		
Dibenzofuran	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	25.0	1	10/02/18 09:03	10/04/18 21:22	91-94-1		
2,4-Dichlorophenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	120-83-2		
Diethylphthalate	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	84-66-2		
2,4-Dimethylphenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	105-67-9		
Dimethylphthalate	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	131-11-3		
Di-n-butylphthalate	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	25.0	1	10/02/18 09:03	10/04/18 21:22	534-52-1		
2,4-Dinitrophenol	ND	ug/L	62.5	1	10/02/18 09:03	10/04/18 21:22	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	606-20-2		
Di-n-octylphthalate	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	117-81-7		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18-20180927		Lab ID: 50206626017		Collected: 09/27/18 09:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	87-68-3		
Hexachlorobenzene	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	77-47-4		
Hexachloroethane	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	67-72-1		
Isophorone	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22			
2-Nitroaniline	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	88-74-4		
3-Nitroaniline	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	99-09-2		
4-Nitroaniline	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	100-01-6		
Nitrobenzene	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	98-95-3		
2-Nitrophenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	88-75-5		
4-Nitrophenol	ND	ug/L	62.5	1	10/02/18 09:03	10/04/18 21:22	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	62.5	1	10/02/18 09:03	10/04/18 21:22	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	86-30-6		
Pentachlorophenol	ND	ug/L	62.5	1	10/02/18 09:03	10/04/18 21:22	87-86-5		
Phenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	108-95-2	R1	
2,4,5-Trichlorophenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	12.5	1	10/02/18 09:03	10/04/18 21:22	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	47	%.	22-108	1	10/02/18 09:03	10/04/18 21:22	4165-60-0		
Phenol-d5 (S)	25	%.	10-61	1	10/02/18 09:03	10/04/18 21:22	4165-62-2		
2-Fluorophenol (S)	34	%.	10-78	1	10/02/18 09:03	10/04/18 21:22	367-12-4		
2,4,6-Tribromophenol (S)	60	%.	23-126	1	10/02/18 09:03	10/04/18 21:22	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 11:34	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 11:34	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 11:34	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 11:34	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 11:34	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 11:34	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 11:34	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 11:34	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 11:34	74-83-9	R1	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 11:34	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 11:34	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 11:34	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 11:34	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 11:34	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 11:34	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 11:34	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 11:34	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 11:34	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 11:34	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 11:34	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 11:34	106-43-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18-20180927		Lab ID: 50206626017		Collected: 09/27/18 09:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 11:34	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 11:34	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 11:34	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:34	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:34	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:34	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 11:34	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 11:34	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 11:34	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 11:34	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 11:34	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 11:34	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 11:34	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 11:34	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 11:34	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 11:34	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 11:34	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 11:34	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 11:34	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 11:34	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 11:34	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 11:34	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 11:34	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 11:34	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 11:34	74-88-4	R1	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 11:34	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 11:34	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 11:34	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 11:34	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 11:34	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 11:34	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 11:34	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 11:34	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 11:34	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 11:34	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 11:34	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:34	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 11:34	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 11:34	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 11:34	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 11:34	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 11:34	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 11:34	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 11:34	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 11:34	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 11:34	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 11:34	75-01-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18-20180927		Lab ID: 50206626017		Collected: 09/27/18 09:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 11:34	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	103	%.	89-116	1		10/07/18 11:34	1868-53-7		
4-Bromofluorobenzene (S)	100	%.	85-111	1		10/07/18 11:34	460-00-4		
Toluene-d8 (S)	96	%.	87-110	1		10/07/18 11:34	2037-26-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18D-20180927		Lab ID: 50206626018		Collected: 09/27/18 12:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	103	ug/L	1.1	1	10/02/18 09:03	10/03/18 17:38	83-32-9	N2	
Acenaphthylene	ND	ug/L	1.1	1	10/02/18 09:03	10/03/18 17:38	208-96-8		
Anthracene	4.0	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	120-12-7		
Benzo(a)anthracene	0.18	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	207-08-9		
Chrysene	ND	ug/L	0.53	1	10/02/18 09:03	10/03/18 17:38	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	53-70-3		
Fluoranthene	3.8	ug/L	1.1	1	10/02/18 09:03	10/03/18 17:38	206-44-0		
Fluorene	64.8	ug/L	1.1	1	10/02/18 09:03	10/03/18 17:38	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	10/02/18 09:03	10/03/18 17:38	193-39-5		
1-Methylnaphthalene	76.9	ug/L	1.1	1	10/02/18 09:03	10/03/18 17:38	90-12-0		
2-Methylnaphthalene	166	ug/L	21.1	20	10/02/18 09:03	10/05/18 15:35	91-57-6		
Naphthalene	1260	ug/L	21.1	20	10/02/18 09:03	10/05/18 15:35	91-20-3		
Phenanthrene	54.1	ug/L	1.1	1	10/02/18 09:03	10/03/18 17:38	85-01-8		
Pyrene	2.0	ug/L	1.1	1	10/02/18 09:03	10/03/18 17:38	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	23	%.	10-108	1	10/02/18 09:03	10/03/18 17:38	321-60-8		
p-Terphenyl-d14 (S)	46	%.	10-167	1	10/02/18 09:03	10/03/18 17:38	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	59-50-7		
4-Chloroaniline	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	91-58-7		
2-Chlorophenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	7005-72-3		
Dibenzofuran	71.2	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	21.1	1	10/02/18 09:03	10/04/18 22:11	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	120-83-2		
Diethylphthalate	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	105-67-9		
Dimethylphthalate	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	21.1	1	10/02/18 09:03	10/04/18 22:11	534-52-1		
2,4-Dinitrophenol	ND	ug/L	52.6	1	10/02/18 09:03	10/04/18 22:11	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	117-81-7		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18D-20180927		Lab ID: 50206626018		Collected: 09/27/18 12:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	87-68-3		
Hexachlorobenzene	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	77-47-4		
Hexachloroethane	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	67-72-1		
Isophorone	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11			
2-Nitroaniline	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	88-74-4		
3-Nitroaniline	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	99-09-2		
4-Nitroaniline	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	100-01-6		
Nitrobenzene	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	98-95-3		
2-Nitrophenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	88-75-5		
4-Nitrophenol	ND	ug/L	52.6	1	10/02/18 09:03	10/04/18 22:11	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	52.6	1	10/02/18 09:03	10/04/18 22:11	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	86-30-6		
Pentachlorophenol	ND	ug/L	52.6	1	10/02/18 09:03	10/04/18 22:11	87-86-5		
Phenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.5	1	10/02/18 09:03	10/04/18 22:11	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	29	%.	22-108	1	10/02/18 09:03	10/04/18 22:11	4165-60-0		
Phenol-d5 (S)	15	%.	10-61	1	10/02/18 09:03	10/04/18 22:11	4165-62-2		
2-Fluorophenol (S)	22	%.	10-78	1	10/02/18 09:03	10/04/18 22:11	367-12-4		
2,4,6-Tribromophenol (S)	39	%.	23-126	1	10/02/18 09:03	10/04/18 22:11	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 19:43	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 19:43	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 19:43	107-13-1		
Benzene	5.2	ug/L	5.0	1		10/07/18 19:43	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 19:43	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 19:43	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 19:43	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 19:43	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 19:43	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 19:43	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 19:43	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 19:43	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 19:43	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 19:43	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 19:43	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 19:43	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 19:43	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 19:43	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 19:43	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 19:43	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 19:43	106-43-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18D-20180927		Lab ID: 50206626018		Collected: 09/27/18 12:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 19:43	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 19:43	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 19:43	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:43	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:43	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:43	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 19:43	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 19:43	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 19:43	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 19:43	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 19:43	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 19:43	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 19:43	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 19:43	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 19:43	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 19:43	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 19:43	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 19:43	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 19:43	10061-02-6		
Ethylbenzene	38.8	ug/L	5.0	1		10/07/18 19:43	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 19:43	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 19:43	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 19:43	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 19:43	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 19:43	74-88-4		
Isopropylbenzene (Cumene)	5.5	ug/L	5.0	1		10/07/18 19:43	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 19:43	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 19:43	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 19:43	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 19:43	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 19:43	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 19:43	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 19:43	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 19:43	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 19:43	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 19:43	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:43	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 19:43	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 19:43	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 19:43	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 19:43	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 19:43	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 19:43	96-18-4		
1,2,4-Trimethylbenzene	48.7	ug/L	5.0	1		10/07/18 19:43	95-63-6		
1,3,5-Trimethylbenzene	17.5	ug/L	5.0	1		10/07/18 19:43	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 19:43	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 19:43	75-01-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-18D-20180927		Lab ID: 50206626018		Collected: 09/27/18 12:25		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)	72.4	ug/L	10.0	1		10/07/18 19:43	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	100	%.	89-116	1		10/07/18 19:43	1868-53-7		
4-Bromofluorobenzene (S)	99	%.	85-111	1		10/07/18 19:43	460-00-4		
Toluene-d8 (S)	98	%.	87-110	1		10/07/18 19:43	2037-26-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-26D-20180927		Lab ID: 50206626019		Collected: 09/27/18 14:50		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.0	1	10/01/18 10:12	10/08/18 21:51	87-86-5		
Surrogates									
2,4-DCAA (S)	57	%.	37-147	1	10/01/18 10:12	10/08/18 21:51	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	194	ug/L	11.9	10	10/02/18 09:03	10/05/18 15:45	83-32-9		
Acenaphthylene	1.3	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:50	208-96-8		
Anthracene	0.32	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	207-08-9		
Chrysene	ND	ug/L	0.60	1	10/02/18 09:03	10/03/18 17:50	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	53-70-3		
Fluoranthene	ND	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:50	206-44-0		
Fluorene	85.6	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:50	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	1	10/02/18 09:03	10/03/18 17:50	193-39-5		
1-Methylnaphthalene	250	ug/L	11.9	10	10/02/18 09:03	10/05/18 15:45	90-12-0	N2	
2-Methylnaphthalene	356	ug/L	11.9	10	10/02/18 09:03	10/05/18 15:45	91-57-6		
Naphthalene	1020	ug/L	11.9	10	10/02/18 09:03	10/05/18 15:45	91-20-3		
Phenanthrene	7.3	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:50	85-01-8		
Pyrene	ND	ug/L	1.2	1	10/02/18 09:03	10/03/18 17:50	129-00-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	101-55-3		
Butylbenzylphthalate	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	59-50-7		
4-Chloroaniline	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	108-60-1		
2-Chloronaphthalene	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	91-58-7		
2-Chlorophenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	7005-72-3		
Dibenzofuran	71.9	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	23.8	1	10/02/18 09:03	10/04/18 22:27	91-94-1		
2,4-Dichlorophenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	120-83-2		
Diethylphthalate	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	84-66-2		
2,4-Dimethylphenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	105-67-9		
Dimethylphthalate	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	131-11-3		
Di-n-butylphthalate	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	23.8	1	10/02/18 09:03	10/04/18 22:27	534-52-1		
2,4-Dinitrophenol	ND	ug/L	59.5	1	10/02/18 09:03	10/04/18 22:27	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	121-14-2		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-26D-20180927		Lab ID: 50206626019		Collected: 09/27/18 14:50		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,6-Dinitrotoluene	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	606-20-2		
Di-n-octylphthalate	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	87-68-3		
Hexachlorobenzene	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	77-47-4		
Hexachloroethane	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	67-72-1		
Isophorone	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27			
2-Nitroaniline	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	88-74-4		
3-Nitroaniline	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	99-09-2		
4-Nitroaniline	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	100-01-6		
Nitrobenzene	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	98-95-3		
2-Nitrophenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	88-75-5		
4-Nitrophenol	ND	ug/L	59.5	1	10/02/18 09:03	10/04/18 22:27	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	59.5	1	10/02/18 09:03	10/04/18 22:27	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	86-30-6		
Pentachlorophenol	ND	ug/L	59.5	1	10/02/18 09:03	10/04/18 22:27	87-86-5		
Phenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	11.9	1	10/02/18 09:03	10/04/18 22:27	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	56	%.	22-108	1	10/02/18 09:03	10/04/18 22:27	4165-60-0		
Phenol-d5 (S)	28	%.	10-61	1	10/02/18 09:03	10/04/18 22:27	4165-62-2		
2-Fluorophenol (S)	39	%.	10-78	1	10/02/18 09:03	10/04/18 22:27	367-12-4		
2,4,6-Tribromophenol (S)	67	%.	23-126	1	10/02/18 09:03	10/04/18 22:27	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 20:08	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 20:08	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 20:08	107-13-1		
Benzene	12.5	ug/L	5.0	1		10/07/18 20:08	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 20:08	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 20:08	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 20:08	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 20:08	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 20:08	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 20:08	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:08	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:08	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:08	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 20:08	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 20:08	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 20:08	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 20:08	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 20:08	67-66-3		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-26D-20180927		Lab ID: 50206626019		Collected: 09/27/18 14:50		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloromethane	ND	ug/L	5.0	1		10/07/18 20:08	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 20:08	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 20:08	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 20:08	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 20:08	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 20:08	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:08	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:08	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:08	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 20:08	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 20:08	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 20:08	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 20:08	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:08	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:08	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:08	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:08	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:08	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:08	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:08	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:08	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:08	10061-02-6		
Ethylbenzene	78.2	ug/L	5.0	1		10/07/18 20:08	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 20:08	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 20:08	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 20:08	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 20:08	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 20:08	74-88-4		
Isopropylbenzene (Cumene)	12.4	ug/L	5.0	1		10/07/18 20:08	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 20:08	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 20:08	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 20:08	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 20:08	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 20:08	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 20:08	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 20:08	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 20:08	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 20:08	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 20:08	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:08	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:08	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 20:08	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 20:08	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 20:08	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 20:08	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 20:08	96-18-4		
1,2,4-Trimethylbenzene	44.3	ug/L	5.0	1		10/07/18 20:08	95-63-6		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-26D-20180927		Lab ID: 50206626019		Collected: 09/27/18 14:50		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	17.2	ug/L	5.0	1		10/07/18 20:08	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 20:08	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 20:08	75-01-4		
Xylene (Total)	106	ug/L	10.0	1		10/07/18 20:08	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	102	%.	89-116	1		10/07/18 20:08	1868-53-7		
4-Bromofluorobenzene (S)	101	%.	85-111	1		10/07/18 20:08	460-00-4		
Toluene-d8 (S)	98	%.	87-110	1		10/07/18 20:08	2037-26-5		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-27D-20180927      Lab ID: 50206626020      Collected: 09/27/18 17:05      Received: 09/28/18 09:55      Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 100mL Combo RV</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	208-96-8	
Anthracene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	207-08-9	
Chrysene	ND	ug/L	0.50	1	10/02/18 13:08	10/03/18 13:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	206-44-0	
Fluorene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 13:55	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	91-57-6	
Naphthalene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	85-01-8	
Pyrene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 13:55	129-00-0	
<b>Surrogates</b>								
2-Fluorobiphenyl (S)	37	%.	10-108	1	10/02/18 13:08	10/03/18 13:55	321-60-8	
p-Terphenyl-d14 (S)	46	%.	10-167	1	10/02/18 13:08	10/03/18 13:55	1718-51-0	
<b>8270 SVOC Combo Water</b> Analytical Method: EPA 8270      Preparation Method: EPA 3510								
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	59-50-7	
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 13:08	10/03/18 22:00	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 13:08	10/03/18 22:00	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:00	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	117-81-7	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-27D-20180927		Lab ID: 50206626020		Collected: 09/27/18 17:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:00	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:00	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:00	87-86-5		
Phenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:00	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	43	%.	22-108	1	10/02/18 13:08	10/03/18 22:00	4165-60-0		
Phenol-d5 (S)	21	%.	10-61	1	10/02/18 13:08	10/03/18 22:00	4165-62-2		
2-Fluorophenol (S)	30	%.	10-78	1	10/02/18 13:08	10/03/18 22:00	367-12-4		
2,4,6-Tribromophenol (S)	47	%.	23-126	1	10/02/18 13:08	10/03/18 22:00	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 20:32	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 20:32	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 20:32	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 20:32	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 20:32	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 20:32	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 20:32	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 20:32	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 20:32	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 20:32	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:32	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:32	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:32	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 20:32	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 20:32	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 20:32	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 20:32	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 20:32	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 20:32	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 20:32	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 20:32	106-43-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-27D-20180927		Lab ID: 50206626020		Collected: 09/27/18 17:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 20:32	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 20:32	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 20:32	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:32	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:32	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:32	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 20:32	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 20:32	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 20:32	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 20:32	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:32	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:32	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:32	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:32	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:32	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:32	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:32	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:32	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:32	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 20:32	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 20:32	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 20:32	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 20:32	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 20:32	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 20:32	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 20:32	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 20:32	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 20:32	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 20:32	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 20:32	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 20:32	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 20:32	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 20:32	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 20:32	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 20:32	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 20:32	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:32	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:32	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 20:32	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 20:32	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 20:32	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 20:32	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 20:32	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 20:32	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 20:32	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 20:32	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 20:32	75-01-4		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-27D-20180927		Lab ID: 50206626020		Collected: 09/27/18 17:05		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
Xylene (Total)		ND	ug/L	10.0	1		10/07/18 20:32	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		103	%.	89-116	1		10/07/18 20:32	1868-53-7	
4-Bromofluorobenzene (S)		101	%.	85-111	1		10/07/18 20:32	460-00-4	
Toluene-d8 (S)		95	%.	87-110	1		10/07/18 20:32	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-DUP-1-20180927		Lab ID: 50206626021		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol	ND	ug/L	1.1	1	10/01/18 10:12	10/08/18 23:22	87-86-5		
Surrogates									
2,4-DCAA (S)	74	%.	37-147	1	10/01/18 10:12	10/08/18 23:22	19719-28-9		
8270 100mL Combo RV		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	83-32-9		
Acenaphthylene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	208-96-8		
Anthracene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	120-12-7		
Benzo(a)anthracene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	56-55-3		
Benzo(a)pyrene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	50-32-8		
Benzo(b)fluoranthene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	205-99-2		
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	191-24-2		
Benzo(k)fluoranthene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	207-08-9		
Chrysene	ND	ug/L	0.50	1	10/02/18 13:08	10/03/18 14:04	218-01-9		
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	53-70-3		
Fluoranthene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	206-44-0		
Fluorene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	86-73-7		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	10/02/18 13:08	10/03/18 14:04	193-39-5		
1-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	90-12-0	N2	
2-Methylnaphthalene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	91-57-6		
Naphthalene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	91-20-3		
Phenanthrene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	85-01-8		
Pyrene	ND	ug/L	1.0	1	10/02/18 13:08	10/03/18 14:04	129-00-0		
Surrogates									
2-Fluorobiphenyl (S)	45	%.	10-108	1	10/02/18 13:08	10/03/18 14:04	321-60-8		
p-Terphenyl-d14 (S)	61	%.	10-167	1	10/02/18 13:08	10/03/18 14:04	1718-51-0		
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Benzyl alcohol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	100-51-6		
4-Bromophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	101-55-3		
Butylbenzylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	85-68-7		
4-Chloro-3-methylphenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	59-50-7		
4-Chloroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	111-44-4		
bis(2chloro1methylethyl) ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	108-60-1		
2-Chloronaphthalene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	91-58-7		
2-Chlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	7005-72-3		
Dibenzofuran	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	132-64-9		
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	10/02/18 13:08	10/03/18 22:16	91-94-1		
2,4-Dichlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	120-83-2		
Diethylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	84-66-2		
2,4-Dimethylphenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	105-67-9		
Dimethylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	131-11-3		
Di-n-butylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1	10/02/18 13:08	10/03/18 22:16	534-52-1		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-DUP-1-20180927		Lab ID: 50206626021		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8270 SVOC Combo Water		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
2,4-Dinitrophenol	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:16	51-28-5		
2,4-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	121-14-2		
2,6-Dinitrotoluene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	606-20-2		
Di-n-octylphthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	117-84-0		
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	117-81-7		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	87-68-3		
Hexachlorobenzene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	118-74-1		
Hexachlorocyclopentadiene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	77-47-4		
Hexachloroethane	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	67-72-1		
Isophorone	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	78-59-1		
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	95-48-7		
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16			
2-Nitroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	88-74-4		
3-Nitroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	99-09-2		
4-Nitroaniline	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	100-01-6		
Nitrobenzene	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	98-95-3		
2-Nitrophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	88-75-5		
4-Nitrophenol	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:16	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:16	621-64-7		
N-Nitrosodiphenylamine	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	86-30-6		
Pentachlorophenol	ND	ug/L	50.0	1	10/02/18 13:08	10/03/18 22:16	87-86-5		
Phenol	64.4	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	108-95-2		
2,4,5-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	95-95-4		
2,4,6-Trichlorophenol	ND	ug/L	10.0	1	10/02/18 13:08	10/03/18 22:16	88-06-2		
Surrogates									
Nitrobenzene-d5 (S)	54	%.	22-108	1	10/02/18 13:08	10/03/18 22:16	4165-60-0		
Phenol-d5 (S)	26	%.	10-61	1	10/02/18 13:08	10/03/18 22:16	4165-62-2		
2-Fluorophenol (S)	36	%.	10-78	1	10/02/18 13:08	10/03/18 22:16	367-12-4		
2,4,6-Tribromophenol (S)	61	%.	23-126	1	10/02/18 13:08	10/03/18 22:16	118-79-6		
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 20:57	67-64-1		
Acrolein	ND	ug/L	50.0	1		10/07/18 20:57	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 20:57	107-13-1		
Benzene	12.0	ug/L	5.0	1		10/07/18 20:57	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 20:57	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 20:57	74-97-5	L1	
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 20:57	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 20:57	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 20:57	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 20:57	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:57	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:57	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 20:57	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 20:57	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 20:57	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 20:57	108-90-7		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-DUP-1-20180927		Lab ID: 50206626021		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Chloroethane	ND	ug/L	5.0	1		10/07/18 20:57	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 20:57	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 20:57	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 20:57	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 20:57	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 20:57	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 20:57	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 20:57	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:57	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:57	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:57	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 20:57	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 20:57	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 20:57	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 20:57	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:57	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:57	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 20:57	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:57	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:57	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 20:57	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:57	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:57	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 20:57	10061-02-6		
Ethylbenzene	77.8	ug/L	5.0	1		10/07/18 20:57	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 20:57	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 20:57	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 20:57	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 20:57	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 20:57	74-88-4		
Isopropylbenzene (Cumene)	12.2	ug/L	5.0	1		10/07/18 20:57	98-82-8		
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 20:57	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 20:57	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 20:57	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 20:57	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 20:57	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 20:57	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 20:57	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 20:57	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 20:57	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 20:57	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:57	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 20:57	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 20:57	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 20:57	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 20:57	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 20:57	75-69-4		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: MW-DUP-1-20180927		Lab ID: 50206626021		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV		Analytical Method: EPA 8260							
1,2,3-Trichloropropane		ND	ug/L	5.0	1		10/07/18 20:57	96-18-4	
1,2,4-Trimethylbenzene		42.2	ug/L	5.0	1		10/07/18 20:57	95-63-6	
1,3,5-Trimethylbenzene		17.1	ug/L	5.0	1		10/07/18 20:57	108-67-8	
Vinyl acetate		ND	ug/L	50.0	1		10/07/18 20:57	108-05-4	
Vinyl chloride		ND	ug/L	2.0	1		10/07/18 20:57	75-01-4	
Xylene (Total)		104	ug/L	10.0	1		10/07/18 20:57	1330-20-7	
Surrogates									
Dibromofluoromethane (S)		103	%.	89-116	1		10/07/18 20:57	1868-53-7	
4-Bromofluorobenzene (S)		101	%.	85-111	1		10/07/18 20:57	460-00-4	
Toluene-d8 (S)		98	%.	87-110	1		10/07/18 20:57	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: TB-3-20180927		Lab ID: 50206626022		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/07/18 21:21	67-64-1	L1	
Acrolein	ND	ug/L	50.0	1		10/07/18 21:21	107-02-8		
Acrylonitrile	ND	ug/L	100	1		10/07/18 21:21	107-13-1		
Benzene	ND	ug/L	5.0	1		10/07/18 21:21	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		10/07/18 21:21	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		10/07/18 21:21	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		10/07/18 21:21	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/18 21:21	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/18 21:21	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		10/07/18 21:21	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		10/07/18 21:21	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		10/07/18 21:21	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		10/07/18 21:21	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		10/07/18 21:21	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/18 21:21	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/18 21:21	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/18 21:21	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/18 21:21	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/18 21:21	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 21:21	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		10/07/18 21:21	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/18 21:21	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/07/18 21:21	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		10/07/18 21:21	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 21:21	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 21:21	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/18 21:21	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/07/18 21:21	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/07/18 21:21	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/18 21:21	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/18 21:21	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/18 21:21	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 21:21	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/18 21:21	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 21:21	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		10/07/18 21:21	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		10/07/18 21:21	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		10/07/18 21:21	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 21:21	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/18 21:21	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/18 21:21	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		10/07/18 21:21	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/07/18 21:21	87-68-3		
n-Hexane	ND	ug/L	5.0	1		10/07/18 21:21	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		10/07/18 21:21	591-78-6		
Iodomethane	ND	ug/L	10.0	1		10/07/18 21:21	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/07/18 21:21	98-82-8		

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Sample: TB-3-20180927		Lab ID: 50206626022		Collected: 09/27/18 08:00		Received: 09/28/18 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260/5030 MSV		Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		10/07/18 21:21	99-87-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/18 21:21	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/07/18 21:21	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/07/18 21:21	1634-04-4		
n-Propylbenzene	ND	ug/L	5.0	1		10/07/18 21:21	103-65-1		
Styrene	ND	ug/L	5.0	1		10/07/18 21:21	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 21:21	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/18 21:21	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/18 21:21	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/18 21:21	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 21:21	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/07/18 21:21	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/18 21:21	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/18 21:21	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/18 21:21	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/18 21:21	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/07/18 21:21	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 21:21	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/07/18 21:21	108-67-8		
Vinyl acetate	ND	ug/L	50.0	1		10/07/18 21:21	108-05-4		
Vinyl chloride	ND	ug/L	2.0	1		10/07/18 21:21	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		10/07/18 21:21	1330-20-7		
Surrogates									
Dibromofluoromethane (S)	103	%.	89-116	1		10/07/18 21:21	1868-53-7		
4-Bromofluorobenzene (S)	102	%.	85-111	1		10/07/18 21:21	460-00-4		
Toluene-d8 (S)	95	%.	87-110	1		10/07/18 21:21	2037-26-5		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch: 464085

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Associated Lab Samples: 50206626001, 50206626006

METHOD BLANK: 2142278

Matrix: Water

Associated Lab Samples: 50206626001, 50206626006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	10/04/18 01:17	

LABORATORY CONTROL SAMPLE: 2142279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	966	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2142280 2142281

Parameter	Units	50206651001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	21.4	1000	1000	1030	1020	101	100	75-125	0	20	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch: 464566

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 50206626001, 50206626006

METHOD BLANK: 2144290

Matrix: Water

Associated Lab Samples: 50206626001, 50206626006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	10/04/18 02:39	

LABORATORY CONTROL SAMPLE: 2144291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	929	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2144292 2144293

Parameter	Units	50206626001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	17.6	1000	1000	990	969	97	95	75-125	2	20	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch:	465246	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626017		

METHOD BLANK:	2147762	Matrix:	Water
Associated Lab Samples:	50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/07/18 03:26	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/07/18 03:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/07/18 03:26	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/07/18 03:26	
1,1-Dichloroethane	ug/L	ND	5.0	10/07/18 03:26	
1,1-Dichloroethene	ug/L	ND	5.0	10/07/18 03:26	
1,1-Dichloropropene	ug/L	ND	5.0	10/07/18 03:26	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/07/18 03:26	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/07/18 03:26	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/07/18 03:26	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/07/18 03:26	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/07/18 03:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/07/18 03:26	
1,2-Dichloroethane	ug/L	ND	5.0	10/07/18 03:26	
1,2-Dichloropropane	ug/L	ND	5.0	10/07/18 03:26	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/07/18 03:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/07/18 03:26	
1,3-Dichloropropane	ug/L	ND	5.0	10/07/18 03:26	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/07/18 03:26	
2,2-Dichloropropane	ug/L	ND	5.0	10/07/18 03:26	
2-Butanone (MEK)	ug/L	ND	25.0	10/07/18 03:26	
2-Chlorotoluene	ug/L	ND	5.0	10/07/18 03:26	
2-Hexanone	ug/L	ND	25.0	10/07/18 03:26	
4-Chlorotoluene	ug/L	ND	5.0	10/07/18 03:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/07/18 03:26	
Acetone	ug/L	ND	100	10/07/18 03:26	
Acrolein	ug/L	ND	50.0	10/07/18 03:26	
Acrylonitrile	ug/L	ND	100	10/07/18 03:26	
Benzene	ug/L	ND	5.0	10/07/18 03:26	
Bromobenzene	ug/L	ND	5.0	10/07/18 03:26	
Bromochloromethane	ug/L	ND	5.0	10/07/18 03:26	
Bromodichloromethane	ug/L	ND	5.0	10/07/18 03:26	
Bromoform	ug/L	ND	5.0	10/07/18 03:26	
Bromomethane	ug/L	ND	5.0	10/07/18 03:26	
Carbon disulfide	ug/L	ND	10.0	10/07/18 03:26	
Carbon tetrachloride	ug/L	ND	5.0	10/07/18 03:26	
Chlorobenzene	ug/L	ND	5.0	10/07/18 03:26	
Chloroethane	ug/L	ND	5.0	10/07/18 03:26	
Chloroform	ug/L	ND	5.0	10/07/18 03:26	
Chloromethane	ug/L	ND	5.0	10/07/18 03:26	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

METHOD BLANK: 2147762

Matrix: Water

Associated Lab Samples: 50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/07/18 03:26	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/07/18 03:26	
Dibromochloromethane	ug/L	ND	5.0	10/07/18 03:26	
Dibromomethane	ug/L	ND	5.0	10/07/18 03:26	
Dichlorodifluoromethane	ug/L	ND	5.0	10/07/18 03:26	
Ethyl methacrylate	ug/L	ND	100	10/07/18 03:26	
Ethylbenzene	ug/L	ND	5.0	10/07/18 03:26	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/07/18 03:26	
Iodomethane	ug/L	ND	10.0	10/07/18 03:26	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/07/18 03:26	
Methyl-tert-butyl ether	ug/L	ND	4.0	10/07/18 03:26	
Methylene Chloride	ug/L	ND	5.0	10/07/18 03:26	
n-Butylbenzene	ug/L	ND	5.0	10/07/18 03:26	
n-Hexane	ug/L	ND	5.0	10/07/18 03:26	
n-Propylbenzene	ug/L	ND	5.0	10/07/18 03:26	
p-Isopropyltoluene	ug/L	ND	5.0	10/07/18 03:26	
sec-Butylbenzene	ug/L	ND	5.0	10/07/18 03:26	
Styrene	ug/L	ND	5.0	10/07/18 03:26	
tert-Butylbenzene	ug/L	ND	5.0	10/07/18 03:26	
Tetrachloroethene	ug/L	ND	5.0	10/07/18 03:26	
Toluene	ug/L	ND	5.0	10/07/18 03:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/07/18 03:26	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/07/18 03:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/07/18 03:26	
Trichloroethene	ug/L	ND	5.0	10/07/18 03:26	
Trichlorofluoromethane	ug/L	ND	5.0	10/07/18 03:26	
Vinyl acetate	ug/L	ND	50.0	10/07/18 03:26	
Vinyl chloride	ug/L	ND	2.0	10/07/18 03:26	
Xylene (Total)	ug/L	ND	10.0	10/07/18 03:26	
4-Bromofluorobenzene (S)	%.	102	85-111	10/07/18 03:26	
Dibromofluoromethane (S)	%.	99	89-116	10/07/18 03:26	
Toluene-d8 (S)	%.	97	87-110	10/07/18 03:26	

LABORATORY CONTROL SAMPLE: 2147763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	80-120	
1,1,1-Trichloroethane	ug/L	50	52.9	106	74-126	
1,1,2,2-Tetrachloroethane	ug/L	50	48.3	97	73-117	
1,1,2-Trichloroethane	ug/L	50	52.3	105	74-119	
1,1-Dichloroethane	ug/L	50	47.3	95	72-119	
1,1-Dichloroethene	ug/L	50	49.6	99	72-123	
1,1-Dichloropropene	ug/L	50	49.4	99	77-125	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

LABORATORY CONTROL SAMPLE: 2147763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	51.9	104	74-125	
1,2,3-Trichloropropane	ug/L	50	54.0	108	82-121	
1,2,4-Trichlorobenzene	ug/L	50	49.4	99	70-125	
1,2,4-Trimethylbenzene	ug/L	50	49.5	99	76-118	
1,2-Dibromoethane (EDB)	ug/L	50	50.0	100	80-120	
1,2-Dichlorobenzene	ug/L	50	46.4	93	77-117	
1,2-Dichloroethane	ug/L	50	53.5	107	69-122	
1,2-Dichloropropane	ug/L	50	54.1	108	75-124	
1,3,5-Trimethylbenzene	ug/L	50	48.4	97	75-117	
1,3-Dichlorobenzene	ug/L	50	47.4	95	76-116	
1,3-Dichloropropane	ug/L	50	49.6	99	82-118	
1,4-Dichlorobenzene	ug/L	50	46.3	93	74-115	
2,2-Dichloropropane	ug/L	50	44.3	89	51-133	
2-Butanone (MEK)	ug/L	250	273	109	72-147	
2-Chlorotoluene	ug/L	50	48.7	97	73-113	
2-Hexanone	ug/L	250	244	98	71-132	
4-Chlorotoluene	ug/L	50	46.0	92	78-118	
4-Methyl-2-pentanone (MIBK)	ug/L	250	243	97	89-128	
Acetone	ug/L	250	284	114	46-170	
Acrolein	ug/L	1000	1000	100	13-200	
Acrylonitrile	ug/L	200	201	101	65-130	
Benzene	ug/L	50	47.3	95	78-117	
Bromobenzene	ug/L	50	49.4	99	66-126	
Bromochloromethane	ug/L	50	60.7	121	76-120	L1
Bromodichloromethane	ug/L	50	49.2	98	76-120	
Bromoform	ug/L	50	47.7	95	70-124	
Bromomethane	ug/L	50	31.6	63	29-181	
Carbon disulfide	ug/L	50	46.6	93	66-123	
Carbon tetrachloride	ug/L	50	53.5	107	73-132	
Chlorobenzene	ug/L	50	47.5	95	79-112	
Chloroethane	ug/L	50	51.2	102	59-156	
Chloroform	ug/L	50	48.9	98	76-118	
Chloromethane	ug/L	50	27.2	54	45-142	
cis-1,2-Dichloroethene	ug/L	50	50.6	101	75-117	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	77-120	
Dibromochloromethane	ug/L	50	52.0	104	78-123	
Dibromomethane	ug/L	50	54.3	109	78-122	
Dichlorodifluoromethane	ug/L	50	55.9	112	41-168	
Ethyl methacrylate	ug/L	200	214	107	75-128	
Ethylbenzene	ug/L	50	49.1	98	80-118	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	73-125	
Iodomethane	ug/L	100	104	104	35-174	
Isopropylbenzene (Cumene)	ug/L	50	49.7	99	81-117	
Methyl-tert-butyl ether	ug/L	50	51.0	102	71-124	
Methylene Chloride	ug/L	50	50.3	101	59-136	
n-Butylbenzene	ug/L	50	49.5	99	72-118	
n-Hexane	ug/L	50	47.4	95	60-128	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

LABORATORY CONTROL SAMPLE: 2147763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	48.1	96	75-120	
p-Isopropyltoluene	ug/L	50	48.9	98	75-115	
sec-Butylbenzene	ug/L	50	48.8	98	76-120	
Styrene	ug/L	50	49.5	99	74-121	
tert-Butylbenzene	ug/L	50	42.9	86	55-109	
Tetrachloroethene	ug/L	50	46.2	92	76-116	
Toluene	ug/L	50	46.9	94	77-115	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	75-121	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	77-121	
trans-1,4-Dichloro-2-butene	ug/L	200	178	89	42-128	
Trichloroethene	ug/L	50	45.7	91	76-120	
Trichlorofluoromethane	ug/L	50	51.1	102	81-141	
Vinyl acetate	ug/L	200	213	106	67-131	
Vinyl chloride	ug/L	50	47.2	94	64-155	
Xylene (Total)	ug/L	150	152	101	78-118	
4-Bromofluorobenzene (S)	%			105	85-111	
Dibromofluoromethane (S)	%			100	89-116	
Toluene-d8 (S)	%			98	87-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147764 2147765

Parameter	Units	50206626017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	49.8	49.9	100	100	48-138	0	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.0	55.2	110	110	50-141	0	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.9	46.6	94	93	52-131	1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	50.5	51.0	101	102	53-131	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	48.8	50.3	98	101	51-130	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	51.3	53.2	103	106	51-138	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	51.9	52.7	104	105	47-143	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	51.0	52.8	102	106	26-143	3	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	51.7	52.8	103	106	60-136	2	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	48.7	49.2	97	98	20-142	1	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50.5	51.3	95	96	19-148	2	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	47.7	48.1	95	96	57-134	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	44.8	46.2	90	92	30-142	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	54.2	55.8	108	112	46-139	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	51.7	55.4	103	111	54-135	7	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	48.0	48.5	94	95	16-149	1	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	45.7	47.1	91	94	24-142	3	20	
1,3-Dichloropropane	ug/L	ND	50	50	47.5	47.2	95	94	59-134	1	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	44.9	45.1	90	90	24-140	0	20	
2,2-Dichloropropane	ug/L	ND	50	50	38.3	39.0	77	78	24-138	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	280	272	112	109	49-156	3	20	
2-Chlorotoluene	ug/L	ND	50	50	47.1	48.4	94	97	21-143	3	20	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147764 2147765											
Parameter	Units	50206626017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	241	235	97	94	53-140	3	20
4-Chlorotoluene	ug/L	ND	50	50	44.3	46.1	89	92	23-147	4	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	235	231	94	93	50-139	2	20
Acetone	ug/L	ND	250	250	281	279	112	112	34-160	1	20
Acrolein	ug/L	ND	1000	1000	891	871	89	87	30-178	2	20
Acrylonitrile	ug/L	ND	200	200	199	199	100	99	54-136	0	20
Benzene	ug/L	ND	50	50	48.6	48.7	97	97	50-135	0	20
Bromobenzene	ug/L	ND	50	50	48.2	48.8	96	98	28-147	1	20
Bromochloromethane	ug/L	ND	50	50	63.1	61.4	126	123	54-138	3	20
Bromodichloromethane	ug/L	ND	50	50	50.1	51.0	100	102	50-135	2	20
Bromoform	ug/L	ND	50	50	45.0	46.3	90	93	43-133	3	20
Bromomethane	ug/L	ND	50	50	18.0	29.2	36	58	15-170	48	20 R1
Carbon disulfide	ug/L	ND	50	50	50.2	52.7	100	105	36-139	5	20
Carbon tetrachloride	ug/L	ND	50	50	54.6	56.6	109	113	43-151	4	20
Chlorobenzene	ug/L	ND	50	50	46.2	46.0	92	92	39-135	0	20
Chloroethane	ug/L	ND	50	50	55.1	56.3	110	113	42-165	2	20
Chloroform	ug/L	ND	50	50	50.6	51.0	101	102	52-134	1	20
Chloromethane	ug/L	ND	50	50	23.8	26.9	48	54	33-146	12	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.2	51.4	98	103	48-133	4	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.8	47.1	90	94	46-131	5	20
Dibromochloromethane	ug/L	ND	50	50	49.8	50.2	100	100	50-139	1	20
Dibromomethane	ug/L	ND	50	50	54.5	55.9	109	112	55-137	3	20
Dichlorodifluoromethane	ug/L	ND	50	50	58.1	59.2	116	118	29-178	2	20
Ethyl methacrylate	ug/L	ND	200	200	208	206	104	103	58-136	1	20
Ethylbenzene	ug/L	ND	50	50	48.9	48.6	98	97	31-147	0	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	49.5	51.4	99	103	10-158	4	20
Iodomethane	ug/L	ND	100	100	69.9	86.8	70	87	17-173	22	20 R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.5	50.9	97	96	25-151	1	20
Methyl-tert-butyl ether	ug/L	ND	50	50	51.4	51.9	103	104	51-142	1	20
Methylene Chloride	ug/L	ND	50	50	48.6	50.5	97	101	41-142	4	20
n-Butylbenzene	ug/L	ND	50	50	48.1	48.9	96	98	10-153	2	20
n-Hexane	ug/L	ND	50	50	46.7	48.9	93	98	35-141	5	20
n-Propylbenzene	ug/L	ND	50	50	49.7	48.6	96	94	16-153	2	20
p-Isopropyltoluene	ug/L	ND	50	50	47.7	47.9	95	96	11-150	0	20
sec-Butylbenzene	ug/L	ND	50	50	47.5	48.0	95	96	11-157	1	20
Styrene	ug/L	ND	50	50	48.8	48.6	98	97	28-142	1	20
tert-Butylbenzene	ug/L	ND	50	50	41.8	42.6	84	85	11-132	2	20
Tetrachloroethene	ug/L	ND	50	50	45.7	45.7	91	91	34-140	0	20
Toluene	ug/L	ND	50	50	46.6	47.6	93	95	43-134	2	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.1	50.5	100	101	51-135	1	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	46.1	46.9	92	94	44-133	2	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	163	160	81	80	12-138	2	20
Trichloroethene	ug/L	ND	50	50	48.3	47.7	97	95	40-141	1	20
Trichlorofluoromethane	ug/L	ND	50	50	51.0	52.6	102	105	56-162	3	20
Vinyl acetate	ug/L	ND	200	200	174	154	87	77	11-134	12	20

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147764 2147765											
Parameter	Units	50206626017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Vinyl chloride	ug/L	ND	50	50	49.1	52.5	98	105	46-164	7	20
Xylene (Total)	ug/L	ND	150	150	152	150	101	100	29-145	1	20
4-Bromofluorobenzene (S)	%.						100	104	85-111		
Dibromofluoromethane (S)	%.						101	103	89-116		
Toluene-d8 (S)	%.						96	96	87-110		

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch:	465247	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	50206626008, 50206626009, 50206626010, 50206626011, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626018, 50206626019, 50206626020, 50206626021, 50206626022		

METHOD BLANK: 2147766

Matrix: Water

Associated Lab Samples: 50206626008, 50206626009, 50206626010, 50206626011, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626018, 50206626019, 50206626020, 50206626021, 50206626022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/07/18 14:01	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/07/18 14:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/07/18 14:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/07/18 14:01	
1,1-Dichloroethane	ug/L	ND	5.0	10/07/18 14:01	
1,1-Dichloroethene	ug/L	ND	5.0	10/07/18 14:01	
1,1-Dichloropropene	ug/L	ND	5.0	10/07/18 14:01	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/07/18 14:01	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/07/18 14:01	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/07/18 14:01	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/07/18 14:01	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/07/18 14:01	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/07/18 14:01	
1,2-Dichloroethane	ug/L	ND	5.0	10/07/18 14:01	
1,2-Dichloropropane	ug/L	ND	5.0	10/07/18 14:01	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/07/18 14:01	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/07/18 14:01	
1,3-Dichloropropane	ug/L	ND	5.0	10/07/18 14:01	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/07/18 14:01	
2,2-Dichloropropane	ug/L	ND	5.0	10/07/18 14:01	
2-Butanone (MEK)	ug/L	ND	25.0	10/07/18 14:01	
2-Chlorotoluene	ug/L	ND	5.0	10/07/18 14:01	
2-Hexanone	ug/L	ND	25.0	10/07/18 14:01	
4-Chlorotoluene	ug/L	ND	5.0	10/07/18 14:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/07/18 14:01	
Acetone	ug/L	ND	100	10/07/18 14:01	
Acrolein	ug/L	ND	50.0	10/07/18 14:01	
Acrylonitrile	ug/L	ND	100	10/07/18 14:01	
Benzene	ug/L	ND	5.0	10/07/18 14:01	
Bromobenzene	ug/L	ND	5.0	10/07/18 14:01	
Bromochloromethane	ug/L	ND	5.0	10/07/18 14:01	
Bromodichloromethane	ug/L	ND	5.0	10/07/18 14:01	
Bromoform	ug/L	ND	5.0	10/07/18 14:01	
Bromomethane	ug/L	ND	5.0	10/07/18 14:01	
Carbon disulfide	ug/L	ND	10.0	10/07/18 14:01	
Carbon tetrachloride	ug/L	ND	5.0	10/07/18 14:01	
Chlorobenzene	ug/L	ND	5.0	10/07/18 14:01	
Chloroethane	ug/L	ND	5.0	10/07/18 14:01	
Chloroform	ug/L	ND	5.0	10/07/18 14:01	
Chloromethane	ug/L	ND	5.0	10/07/18 14:01	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

PACE Project No.: 50206626

METHOD BLANK: 2147766

Matrix: Water

Associated Lab Samples: 50206626008, 50206626009, 50206626010, 50206626011, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626018, 50206626019, 50206626020, 50206626021, 50206626022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/07/18 14:01	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/07/18 14:01	
Dibromochloromethane	ug/L	ND	5.0	10/07/18 14:01	
Dibromomethane	ug/L	ND	5.0	10/07/18 14:01	
Dichlorodifluoromethane	ug/L	ND	5.0	10/07/18 14:01	
Ethyl methacrylate	ug/L	ND	100	10/07/18 14:01	
Ethylbenzene	ug/L	ND	5.0	10/07/18 14:01	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/07/18 14:01	
Iodomethane	ug/L	ND	10.0	10/07/18 14:01	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/07/18 14:01	
Methyl-tert-butyl ether	ug/L	ND	4.0	10/07/18 14:01	
Methylene Chloride	ug/L	ND	5.0	10/07/18 14:01	
n-Butylbenzene	ug/L	ND	5.0	10/07/18 14:01	
n-Hexane	ug/L	ND	5.0	10/07/18 14:01	
n-Propylbenzene	ug/L	ND	5.0	10/07/18 14:01	
p-Isopropyltoluene	ug/L	ND	5.0	10/07/18 14:01	
sec-Butylbenzene	ug/L	ND	5.0	10/07/18 14:01	
Styrene	ug/L	ND	5.0	10/07/18 14:01	
tert-Butylbenzene	ug/L	ND	5.0	10/07/18 14:01	
Tetrachloroethene	ug/L	ND	5.0	10/07/18 14:01	
Toluene	ug/L	ND	5.0	10/07/18 14:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/07/18 14:01	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/07/18 14:01	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/07/18 14:01	
Trichloroethene	ug/L	ND	5.0	10/07/18 14:01	
Trichlorofluoromethane	ug/L	ND	5.0	10/07/18 14:01	
Vinyl acetate	ug/L	ND	50.0	10/07/18 14:01	
Vinyl chloride	ug/L	ND	2.0	10/07/18 14:01	
Xylene (Total)	ug/L	ND	10.0	10/07/18 14:01	
4-Bromofluorobenzene (S)	%	103	85-111	10/07/18 14:01	
Dibromofluoromethane (S)	%	101	89-116	10/07/18 14:01	
Toluene-d8 (S)	%	96	87-110	10/07/18 14:01	

LABORATORY CONTROL SAMPLE: 2147767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	80-120	
1,1,1-Trichloroethane	ug/L	50	54.9	110	74-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.6	101	73-117	
1,1,2-Trichloroethane	ug/L	50	52.6	105	74-119	
1,1-Dichloroethane	ug/L	50	49.7	99	72-119	
1,1-Dichloroethene	ug/L	50	51.9	104	72-123	
1,1-Dichloropropene	ug/L	50	52.1	104	77-125	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

LABORATORY CONTROL SAMPLE: 2147767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	74-125	
1,2,3-Trichloropropane	ug/L	50	56.5	113	82-121	
1,2,4-Trichlorobenzene	ug/L	50	49.2	98	70-125	
1,2,4-Trimethylbenzene	ug/L	50	49.3	99	76-118	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	80-120	
1,2-Dichlorobenzene	ug/L	50	47.0	94	77-117	
1,2-Dichloroethane	ug/L	50	55.9	112	69-122	
1,2-Dichloropropane	ug/L	50	56.1	112	75-124	
1,3,5-Trimethylbenzene	ug/L	50	48.5	97	75-117	
1,3-Dichlorobenzene	ug/L	50	48.3	97	76-116	
1,3-Dichloropropane	ug/L	50	50.6	101	82-118	
1,4-Dichlorobenzene	ug/L	50	46.9	94	74-115	
2,2-Dichloropropane	ug/L	50	37.5	75	51-133	
2-Butanone (MEK)	ug/L	250	277	111	72-147	
2-Chlorotoluene	ug/L	50	49.8	100	73-113	
2-Hexanone	ug/L	250	245	98	71-132	
4-Chlorotoluene	ug/L	50	45.9	92	78-118	
4-Methyl-2-pentanone (MIBK)	ug/L	250	241	97	89-128	
Acetone	ug/L	250	287	115	46-170	
Acrolein	ug/L	1000	1100	110	13-200	
Acrylonitrile	ug/L	200	210	105	65-130	
Benzene	ug/L	50	48.0	96	78-117	
Bromobenzene	ug/L	50	50.5	101	66-126	
Bromochloromethane	ug/L	50	60.8	122	76-120	L1
Bromodichloromethane	ug/L	50	52.0	104	76-120	
Bromoform	ug/L	50	48.3	97	70-124	
Bromomethane	ug/L	50	39.1	78	29-181	
Carbon disulfide	ug/L	50	50.5	101	66-123	
Carbon tetrachloride	ug/L	50	55.2	110	73-132	
Chlorobenzene	ug/L	50	47.7	95	79-112	
Chloroethane	ug/L	50	54.4	109	59-156	
Chloroform	ug/L	50	50.4	101	76-118	
Chloromethane	ug/L	50	29.0	58	45-142	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	75-117	
cis-1,3-Dichloropropene	ug/L	50	48.0	96	77-120	
Dibromochloromethane	ug/L	50	51.7	103	78-123	
Dibromomethane	ug/L	50	55.9	112	78-122	
Dichlorodifluoromethane	ug/L	50	58.4	117	41-168	
Ethyl methacrylate	ug/L	200	218	109	75-128	
Ethylbenzene	ug/L	50	49.0	98	80-118	
Hexachloro-1,3-butadiene	ug/L	50	48.0	96	73-125	
Iodomethane	ug/L	100	107	107	35-174	
Isopropylbenzene (Cumene)	ug/L	50	49.9	100	81-117	
Methyl-tert-butyl ether	ug/L	50	53.0	106	71-124	
Methylene Chloride	ug/L	50	54.5	109	59-136	
n-Butylbenzene	ug/L	50	48.9	98	72-118	
n-Hexane	ug/L	50	46.1	92	60-128	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

LABORATORY CONTROL SAMPLE: 2147767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	50	49.1	98	75-120	
p-Isopropyltoluene	ug/L	50	48.7	97	75-115	
sec-Butylbenzene	ug/L	50	49.3	99	76-120	
Styrene	ug/L	50	50.9	102	74-121	
tert-Butylbenzene	ug/L	50	43.1	86	55-109	
Tetrachloroethene	ug/L	50	46.8	94	76-116	
Toluene	ug/L	50	47.4	95	77-115	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	75-121	
trans-1,3-Dichloropropene	ug/L	50	48.2	96	77-121	
trans-1,4-Dichloro-2-butene	ug/L	200	167	84	42-128	
Trichloroethene	ug/L	50	46.7	93	76-120	
Trichlorofluoromethane	ug/L	50	50.5	101	81-141	
Vinyl acetate	ug/L	200	220	110	67-131	
Vinyl chloride	ug/L	50	51.2	102	64-155	
Xylene (Total)	ug/L	150	153	102	78-118	
4-Bromofluorobenzene (S)	%			103	85-111	
Dibromofluoromethane (S)	%			102	89-116	
Toluene-d8 (S)	%			96	87-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147768 2147769

Parameter	Units	50206359016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	53.5	51.2	107	102	48-138	4	20
1,1,1-Trichloroethane	ug/L	ND	50	50	55.4	56.2	111	112	50-141	1	20
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.8	47.6	98	95	52-131	3	20
1,1,2-Trichloroethane	ug/L	ND	50	50	53.3	51.2	107	102	53-131	4	20
1,1-Dichloroethane	ug/L	ND	50	50	50.8	48.5	102	97	51-130	5	20
1,1-Dichloroethene	ug/L	ND	50	50	53.7	52.1	107	104	51-138	3	20
1,1-Dichloropropene	ug/L	ND	50	50	54.1	49.9	108	100	47-143	8	20
1,2,3-Trichlorobenzene	ug/L	ND	50	50	49.1	48.3	98	97	26-143	2	20
1,2,3-Trichloropropane	ug/L	ND	50	50	54.1	53.6	108	107	60-136	1	20
1,2,4-Trichlorobenzene	ug/L	ND	50	50	45.3	45.9	91	92	20-142	1	20
1,2,4-Trimethylbenzene	ug/L	ND	50	50	47.7	47.4	95	95	19-148	1	20
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.2	49.0	102	98	57-134	4	20
1,2-Dichlorobenzene	ug/L	ND	50	50	46.0	45.2	92	90	30-142	2	20
1,2-Dichloroethane	ug/L	ND	50	50	56.5	55.6	113	111	46-139	2	20
1,2-Dichloropropane	ug/L	ND	50	50	55.7	56.1	111	112	54-135	1	20
1,3,5-Trimethylbenzene	ug/L	ND	50	50	47.7	47.1	95	94	16-149	1	20
1,3-Dichlorobenzene	ug/L	ND	50	50	45.4	45.8	91	92	24-142	1	20
1,3-Dichloropropane	ug/L	ND	50	50	50.0	50.0	100	100	59-134	0	20
1,4-Dichlorobenzene	ug/L	ND	50	50	45.1	44.6	90	89	24-140	1	20
2,2-Dichloropropane	ug/L	ND	50	50	30.8	28.7	62	57	24-138	7	20
2-Butanone (MEK)	ug/L	ND	250	250	293	282	117	113	49-156	4	20
2-Chlorotoluene	ug/L	ND	50	50	48.3	48.6	97	97	21-143	1	20

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147768 2147769											
Parameter	Units	50206359016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
2-Hexanone	ug/L	ND	250	250	255	241	102	96	53-140	6	20
4-Chlorotoluene	ug/L	ND	50	50	45.4	44.8	91	90	23-147	1	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	248	237	99	95	50-139	5	20
Acetone	ug/L	71.6J	250	250	379	364	123	117	34-160	4	20
Acrolein	ug/L	ND	1000	1000	727	695	73	70	30-178	4	20
Acrylonitrile	ug/L	ND	200	200	205	195	102	97	54-136	5	20
Benzene	ug/L	ND	50	50	50.5	49.5	101	99	50-135	2	20
Bromobenzene	ug/L	ND	50	50	50.3	49.6	101	99	28-147	1	20
Bromochloromethane	ug/L	ND	50	50	65.8	61.3	132	123	54-138	7	20
Bromodichloromethane	ug/L	ND	50	50	53.7	50.2	107	100	50-135	7	20
Bromoform	ug/L	ND	50	50	47.0	46.0	94	92	43-133	2	20
Bromomethane	ug/L	ND	50	50	26.8	36.0	54	72	15-170	29	20 R1
Carbon disulfide	ug/L	ND	50	50	49.0	48.0	98	96	36-139	2	20
Carbon tetrachloride	ug/L	ND	50	50	56.5	56.3	113	113	43-151	0	20
Chlorobenzene	ug/L	ND	50	50	47.9	46.8	96	94	39-135	2	20
Chloroethane	ug/L	ND	50	50	59.4	56.5	119	113	42-165	5	20
Chloroform	ug/L	ND	50	50	53.3	51.5	107	103	52-134	3	20
Chloromethane	ug/L	ND	50	50	26.0	27.1	52	54	33-146	4	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.7	53.1	107	106	48-133	1	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	46.2	44.2	92	88	46-131	5	20
Dibromochloromethane	ug/L	ND	50	50	53.2	49.9	106	100	50-139	6	20
Dibromomethane	ug/L	ND	50	50	57.4	54.6	115	109	55-137	5	20
Dichlorodifluoromethane	ug/L	ND	50	50	57.8	57.5	116	115	29-178	0	20
Ethyl methacrylate	ug/L	ND	200	200	219	204	109	102	58-136	7	20
Ethylbenzene	ug/L	ND	50	50	49.7	48.1	99	96	31-147	3	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	44.4	45.1	89	90	10-158	1	20
Iodomethane	ug/L	ND	100	100	78.1	103	78	103	17-173	28	20 R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	50.5	49.0	101	98	25-151	3	20
Methyl-tert-butyl ether	ug/L	ND	50	50	53.7	50.8	107	102	51-142	6	20
Methylene Chloride	ug/L	ND	50	50	51.8	48.3	104	97	41-142	7	20
n-Butylbenzene	ug/L	ND	50	50	45.0	45.5	90	91	10-153	1	20
n-Hexane	ug/L	ND	50	50	41.1	41.5	82	83	35-141	1	20
n-Propylbenzene	ug/L	ND	50	50	46.5	48.4	93	97	16-153	4	20
p-Isopropyltoluene	ug/L	ND	50	50	46.7	47.1	93	94	11-150	1	20
sec-Butylbenzene	ug/L	ND	50	50	47.5	47.9	95	96	11-157	1	20
Styrene	ug/L	ND	50	50	50.6	48.8	101	98	28-142	4	20
tert-Butylbenzene	ug/L	ND	50	50	42.9	41.9	86	84	11-132	2	20
Tetrachloroethene	ug/L	33.2	50	50	78.3	77.6	90	89	34-140	1	20
Toluene	ug/L	ND	50	50	48.0	48.0	96	96	43-134	0	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.6	50.0	101	100	51-135	1	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	46.2	45.7	92	91	44-133	1	20
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	157	146	78	73	12-138	7	20
Trichloroethene	ug/L	11.7	50	50	61.4	59.9	99	96	40-141	2	20
Trichlorofluoromethane	ug/L	ND	50	50	54.3	52.7	109	105	56-162	3	20
Vinyl acetate	ug/L	ND	200	200	94.3	94.3	47	47	11-134	0	20

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2147768 2147769												
Parameter	Units	50206359016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Vinyl chloride	ug/L	ND	50	50	53.0	51.2	106	102	46-164	3	20	
Xylene (Total)	ug/L	ND	150	150	154	152	103	101	29-145	2	20	
4-Bromofluorobenzene (S)	%.						103	104	85-111			
Dibromofluoromethane (S)	%.						101	101	89-116			
Toluene-d8 (S)	%.						96	95	87-110			

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch:	464193	Analysis Method:	EPA 8151
QC Batch Method:	EPA 8151	Analysis Description:	8151A GCS Herbicides
Associated Lab Samples:	50206626001, 50206626003, 50206626005, 50206626008, 50206626009, 50206626012, 50206626016, 50206626019, 50206626021		

METHOD BLANK:	2142816	Matrix:	Water
Associated Lab Samples:	50206626001, 50206626003, 50206626005, 50206626008, 50206626009, 50206626012, 50206626016, 50206626019, 50206626021		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	1.0	10/08/18 17:18	
2,4-DCAA (S)	%.	88	37-147	10/08/18 17:18	

LABORATORY CONTROL SAMPLE: 2142817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	ug/L	5	4.7	93	63-110	
2,4-DCAA (S)	%.			87	37-147	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch:	464329	Analysis Method:	EPA 8270 by SIM
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH Low Volume
Associated Lab Samples:	50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626008, 50206626009, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626017, 50206626018, 50206626019		

METHOD BLANK: 2143287

Matrix: Water

Associated Lab Samples: 50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626008, 50206626009, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626017, 50206626018, 50206626019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	10/03/18 13:16	N2
2-Methylnaphthalene	ug/L	ND	1.0	10/03/18 13:16	
Acenaphthene	ug/L	ND	1.0	10/03/18 13:16	
Acenaphthylene	ug/L	ND	1.0	10/03/18 13:16	
Anthracene	ug/L	ND	0.10	10/03/18 13:16	
Benzo(a)anthracene	ug/L	ND	0.10	10/03/18 13:16	
Benzo(a)pyrene	ug/L	ND	0.10	10/03/18 13:16	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/03/18 13:16	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/03/18 13:16	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/03/18 13:16	
Chrysene	ug/L	ND	0.50	10/03/18 13:16	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/03/18 13:16	
Fluoranthene	ug/L	ND	1.0	10/03/18 13:16	
Fluorene	ug/L	ND	1.0	10/03/18 13:16	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/03/18 13:16	
Naphthalene	ug/L	ND	1.0	10/03/18 13:16	
Phenanthrene	ug/L	ND	1.0	10/03/18 13:16	
Pyrene	ug/L	ND	1.0	10/03/18 13:16	
2-Fluorobiphenyl (S)	%	46	10-108	10/03/18 13:16	
p-Terphenyl-d14 (S)	%	86	10-167	10/03/18 13:16	

LABORATORY CONTROL SAMPLE: 2143288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	4.4	44	23-93	N2
2-Methylnaphthalene	ug/L	10	5.0	50	23-102	
Acenaphthene	ug/L	10	4.7	47	33-106	
Acenaphthylene	ug/L	10	5.3	53	35-119	
Anthracene	ug/L	10	6.1	61	28-124	
Benzo(a)anthracene	ug/L	10	7.2	72	58-140	
Benzo(a)pyrene	ug/L	10	6.7	67	53-118	
Benzo(b)fluoranthene	ug/L	10	6.9	69	55-133	
Benzo(g,h,i)perylene	ug/L	10	6.3	63	46-105	
Benzo(k)fluoranthene	ug/L	10	7.2	72	49-115	
Chrysene	ug/L	10	6.6	66	50-125	
Dibenz(a,h)anthracene	ug/L	10	6.9	69	48-112	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

LABORATORY CONTROL SAMPLE: 2143288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/L	10	6.4	64	53-128	
Fluorene	ug/L	10	5.4	54	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.8	68	49-109	
Naphthalene	ug/L	10	5.1	51	26-95	
Phenanthrene	ug/L	10	6.0	60	48-124	
Pyrene	ug/L	10	6.5	65	54-131	
2-Fluorobiphenyl (S)	%			47	10-108	
p-Terphenyl-d14 (S)	%			87	10-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2143289 2143290

Parameter	Units	50206626017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1-Methylnaphthalene	ug/L	92.7	12.2	10.6	91.6	86.5	-9	-58	10-99	6	20 M1,N2
2-Methylnaphthalene	ug/L	10.2	12.2	10.6	15.4	14.2	42	38	10-104	8	20
Acenaphthene	ug/L	70.1	12.2	10.6	71.8	67.5	14	-24	10-131	6	20 M1
Acenaphthylene	ug/L	ND	12.2	10.6	6.7	5.9	50	50	10-123	12	20
Anthracene	ug/L	0.33	12.2	10.6	7.2	6.8	56	61	10-147	5	20
Benzo(a)anthracene	ug/L	ND	12.2	10.6	8.6	8.2	71	77	12-140	5	20
Benzo(a)pyrene	ug/L	ND	12.2	10.6	7.1	7.0	58	66	10-111	2	20
Benzo(b)fluoranthene	ug/L	ND	12.2	10.6	7.4	7.1	61	67	10-118	4	20
Benzo(g,h,i)perylene	ug/L	ND	12.2	10.6	6.1	5.8	50	55	10-91	4	20
Benzo(k)fluoranthene	ug/L	ND	12.2	10.6	7.0	6.9	58	65	10-110	2	20
Chrysene	ug/L	ND	12.2	10.6	6.5	6.3	53	59	14-119	3	20
Dibenz(a,h)anthracene	ug/L	ND	12.2	10.6	6.5	6.3	53	59	10-96	2	20
Fluoranthene	ug/L	ND	12.2	10.6	7.8	7.1	62	65	15-136	9	20
Fluorene	ug/L	20.7	12.2	10.6	25.8	24.5	41	36	11-123	5	20
Indeno(1,2,3-cd)pyrene	ug/L	ND	12.2	10.6	6.5	6.2	53	59	10-95	3	20
Naphthalene	ug/L	1.9	12.2	10.6	7.6	6.7	47	46	10-97	12	20
Phenanthrene	ug/L	ND	12.2	10.6	7.4	6.7	57	59	11-128	10	20
Pyrene	ug/L	ND	12.2	10.6	7.5	7.1	61	66	17-137	6	20
2-Fluorobiphenyl (S)	%						38	31	10-108		
p-Terphenyl-d14 (S)	%						71	62	10-167		

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch: 464387

Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3510

Analysis Description: 8270 Water PAH Low Volume

Associated Lab Samples: 50206626020, 50206626021

METHOD BLANK: 2143484

Matrix: Water

Associated Lab Samples: 50206626020, 50206626021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	10/03/18 16:14	N2
2-Methylnaphthalene	ug/L	ND	1.0	10/03/18 16:14	
Acenaphthene	ug/L	ND	1.0	10/03/18 16:14	
Acenaphthylene	ug/L	ND	1.0	10/03/18 16:14	
Anthracene	ug/L	ND	0.10	10/03/18 16:14	
Benzo(a)anthracene	ug/L	ND	0.10	10/03/18 16:14	
Benzo(a)pyrene	ug/L	ND	0.10	10/03/18 16:14	
Benzo(b)fluoranthene	ug/L	ND	0.10	10/03/18 16:14	
Benzo(g,h,i)perylene	ug/L	ND	0.10	10/03/18 16:14	
Benzo(k)fluoranthene	ug/L	ND	0.10	10/03/18 16:14	
Chrysene	ug/L	ND	0.50	10/03/18 16:14	
Dibenz(a,h)anthracene	ug/L	ND	0.10	10/03/18 16:14	
Fluoranthene	ug/L	ND	1.0	10/03/18 16:14	
Fluorene	ug/L	ND	1.0	10/03/18 16:14	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	10/03/18 16:14	
Naphthalene	ug/L	ND	1.0	10/03/18 16:14	
Phenanthrene	ug/L	ND	1.0	10/03/18 16:14	
Pyrene	ug/L	ND	1.0	10/03/18 16:14	
2-Fluorobiphenyl (S)	%	43	10-108	10/03/18 16:14	
p-Terphenyl-d14 (S)	%	60	10-167	10/03/18 16:14	

LABORATORY CONTROL SAMPLE: 2143485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	5.0	50	23-93	N2
2-Methylnaphthalene	ug/L	10	5.0	50	23-102	
Acenaphthene	ug/L	10	5.3	53	33-106	
Acenaphthylene	ug/L	10	6.7	67	35-119	
Anthracene	ug/L	10	6.4	64	28-124	
Benzo(a)anthracene	ug/L	10	6.3	63	58-140	
Benzo(a)pyrene	ug/L	10	5.8	58	53-118	
Benzo(b)fluoranthene	ug/L	10	6.4	64	55-133	
Benzo(g,h,i)perylene	ug/L	10	5.9	59	46-105	
Benzo(k)fluoranthene	ug/L	10	6.8	68	49-115	
Chrysene	ug/L	10	6.2	62	50-125	
Dibenz(a,h)anthracene	ug/L	10	6.2	62	48-112	
Fluoranthene	ug/L	10	6.2	62	53-128	
Fluorene	ug/L	10	5.8	58	39-123	
Indeno(1,2,3-cd)pyrene	ug/L	10	6.1	61	49-109	
Naphthalene	ug/L	10	5.1	51	26-95	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

LABORATORY CONTROL SAMPLE: 2143485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	6.1	61	48-124	
Pyrene	ug/L	10	6.7	67	54-131	
2-Fluorobiphenyl (S)	%.			47	10-108	
p-Terphenyl-d14 (S)	%.			67	10-167	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch:	464327	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water Scan LV
Associated Lab Samples:	50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626008, 50206626009, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626017, 50206626018, 50206626019		

METHOD BLANK: 2143283 Matrix: Water

Associated Lab Samples: 50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626008, 50206626009, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626017, 50206626018, 50206626019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/L	ND	10.0	10/04/18 16:15	
2,4,6-Trichlorophenol	ug/L	ND	10.0	10/04/18 16:15	
2,4-Dichlorophenol	ug/L	ND	10.0	10/04/18 16:15	
2,4-Dimethylphenol	ug/L	ND	10.0	10/04/18 16:15	
2,4-Dinitrophenol	ug/L	ND	50.0	10/04/18 16:15	
2,4-Dinitrotoluene	ug/L	ND	10.0	10/04/18 16:15	
2,6-Dinitrotoluene	ug/L	ND	10.0	10/04/18 16:15	
2-Chloronaphthalene	ug/L	ND	10.0	10/04/18 16:15	
2-Chlorophenol	ug/L	ND	10.0	10/04/18 16:15	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	10/04/18 16:15	
2-Nitroaniline	ug/L	ND	10.0	10/04/18 16:15	
2-Nitrophenol	ug/L	ND	10.0	10/04/18 16:15	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	10/04/18 16:15	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	10/04/18 16:15	
3-Nitroaniline	ug/L	ND	10.0	10/04/18 16:15	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	10/04/18 16:15	
4-Bromophenylphenyl ether	ug/L	ND	10.0	10/04/18 16:15	
4-Chloro-3-methylphenol	ug/L	ND	10.0	10/04/18 16:15	
4-Chloroaniline	ug/L	ND	10.0	10/04/18 16:15	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	10/04/18 16:15	
4-Nitroaniline	ug/L	ND	10.0	10/04/18 16:15	
4-Nitrophenol	ug/L	ND	50.0	10/04/18 16:15	
Benzyl alcohol	ug/L	ND	10.0	10/04/18 16:15	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	10/04/18 16:15	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	10/04/18 16:15	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	10/04/18 16:15	
bis(2chloro1 methylethyl) ether	ug/L	ND	10.0	10/04/18 16:15	
Butylbenzylphthalate	ug/L	ND	10.0	10/04/18 16:15	
Di-n-butylphthalate	ug/L	ND	10.0	10/04/18 16:15	
Di-n-octylphthalate	ug/L	ND	10.0	10/04/18 16:15	
Dibenzofuran	ug/L	ND	10.0	10/04/18 16:15	
Diethylphthalate	ug/L	ND	10.0	10/04/18 16:15	
Dimethylphthalate	ug/L	ND	10.0	10/04/18 16:15	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	10/04/18 16:15	
Hexachlorobenzene	ug/L	ND	10.0	10/04/18 16:15	
Hexachlorocyclopentadiene	ug/L	ND	10.0	10/04/18 16:15	
Hexachloroethane	ug/L	ND	10.0	10/04/18 16:15	
Isophorone	ug/L	ND	10.0	10/04/18 16:15	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Path Project No.: 50206626

METHOD BLANK: 2143283

Matrix: Water

Associated Lab Samples: 50206626001, 50206626002, 50206626003, 50206626004, 50206626005, 50206626006, 50206626007, 50206626008, 50206626009, 50206626012, 50206626013, 50206626014, 50206626015, 50206626016, 50206626017, 50206626018, 50206626019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
N-Nitroso-di-n-propylamine	ug/L	ND	50.0	10/04/18 16:15	
N-Nitrosodiphenylamine	ug/L	ND	10.0	10/04/18 16:15	
Nitrobenzene	ug/L	ND	10.0	10/04/18 16:15	
Pentachlorophenol	ug/L	ND	50.0	10/04/18 16:15	
Phenol	ug/L	ND	10.0	10/04/18 16:15	
2,4,6-Tribromophenol (S)	%	53	23-126	10/04/18 16:15	
2-Fluorophenol (S)	%	35	10-78	10/04/18 16:15	
Nitrobenzene-d5 (S)	%	52	22-108	10/04/18 16:15	
Phenol-d5 (S)	%	24	10-61	10/04/18 16:15	

LABORATORY CONTROL SAMPLE: 2143284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	100	44.6	45	35-144	
2-Chlorophenol	ug/L	100	53.0	53	21-109	
4-Chloro-3-methylphenol	ug/L	100	55.9	56	27-134	
4-Nitrophenol	ug/L	100	19.6J	20	10-92	
N-Nitroso-di-n-propylamine	ug/L	100	60.6	61	31-121	
Pentachlorophenol	ug/L	100	63.4	63	24-144	
Phenol	ug/L	100	26.2	26	10-68	
2,4,6-Tribromophenol (S)	%			60	23-126	
2-Fluorophenol (S)	%			32	10-78	
Nitrobenzene-d5 (S)	%			49	22-108	
Phenol-d5 (S)	%			25	10-61	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2143285 2143286

Parameter	Units	50206626017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/L	ND	122	106	57.5	50.4	47	47	36-130	13	20	
2-Chlorophenol	ug/L	ND	122	106	69.0	56.5	57	53	22-95	20	20	
4-Chloro-3-methylphenol	ug/L	ND	122	106	76.4	64.2	63	60	29-118	17	20	
4-Nitrophenol	ug/L	ND	122	106	26.6J	26.7J	22	25	10-80		20	
N-Nitroso-di-n-propylamine	ug/L	ND	122	106	72.3	60.6	59	57	32-110	18	20	
Pentachlorophenol	ug/L	ND	122	106	86.1	76.2	71	72	23-137	12	20	
Phenol	ug/L	ND	122	106	32.2	24.8	26	23	10-63	26	20 R1	
2,4,6-Tribromophenol (S)	%						56	44	23-126			
2-Fluorophenol (S)	%						32	24	10-78			
Nitrobenzene-d5 (S)	%						47	37	22-108			
Phenol-d5 (S)	%						25	18	10-61			

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

QC Batch: 464386

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water Scan LV

Associated Lab Samples: 50206626020, 50206626021

METHOD BLANK: 2143482

Matrix: Water

Associated Lab Samples: 50206626020, 50206626021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/L	ND	10.0	10/03/18 20:07	
2,4,6-Trichlorophenol	ug/L	ND	10.0	10/03/18 20:07	
2,4-Dichlorophenol	ug/L	ND	10.0	10/03/18 20:07	
2,4-Dimethylphenol	ug/L	ND	10.0	10/03/18 20:07	
2,4-Dinitrophenol	ug/L	ND	50.0	10/03/18 20:07	
2,4-Dinitrotoluene	ug/L	ND	10.0	10/03/18 20:07	
2,6-Dinitrotoluene	ug/L	ND	10.0	10/03/18 20:07	
2-Chloronaphthalene	ug/L	ND	10.0	10/03/18 20:07	
2-Chlorophenol	ug/L	ND	10.0	10/03/18 20:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	10/03/18 20:07	
2-Nitroaniline	ug/L	ND	10.0	10/03/18 20:07	
2-Nitrophenol	ug/L	ND	10.0	10/03/18 20:07	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	10/03/18 20:07	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	10/03/18 20:07	
3-Nitroaniline	ug/L	ND	10.0	10/03/18 20:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	10/03/18 20:07	
4-Bromophenylphenyl ether	ug/L	ND	10.0	10/03/18 20:07	
4-Chloro-3-methylphenol	ug/L	ND	10.0	10/03/18 20:07	
4-Chloroaniline	ug/L	ND	10.0	10/03/18 20:07	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	10/03/18 20:07	
4-Nitroaniline	ug/L	ND	10.0	10/03/18 20:07	
4-Nitrophenol	ug/L	ND	50.0	10/03/18 20:07	
Benzyl alcohol	ug/L	ND	10.0	10/03/18 20:07	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	10/03/18 20:07	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	10/03/18 20:07	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	10/03/18 20:07	
bis(2chloro1methylethyl) ether	ug/L	ND	10.0	10/03/18 20:07	
Butylbenzylphthalate	ug/L	ND	10.0	10/03/18 20:07	
Di-n-butylphthalate	ug/L	ND	10.0	10/03/18 20:07	
Di-n-octylphthalate	ug/L	ND	10.0	10/03/18 20:07	
Dibenzofuran	ug/L	ND	10.0	10/03/18 20:07	
Diethylphthalate	ug/L	ND	10.0	10/03/18 20:07	
Dimethylphthalate	ug/L	ND	10.0	10/03/18 20:07	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	10/03/18 20:07	
Hexachlorobenzene	ug/L	ND	10.0	10/03/18 20:07	
Hexachlorocyclopentadiene	ug/L	ND	10.0	10/03/18 20:07	
Hexachloroethane	ug/L	ND	10.0	10/03/18 20:07	
Isophorone	ug/L	ND	10.0	10/03/18 20:07	
N-Nitroso-di-n-propylamine	ug/L	ND	50.0	10/03/18 20:07	
N-Nitrosodiphenylamine	ug/L	ND	10.0	10/03/18 20:07	
Nitrobenzene	ug/L	ND	10.0	10/03/18 20:07	

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

METHOD BLANK: 2143482

Matrix: Water

Associated Lab Samples: 50206626020, 50206626021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	50.0	10/03/18 20:07	
Phenol	ug/L	ND	10.0	10/03/18 20:07	
2,4,6-Tribromophenol (S)	%.	51	23-126	10/03/18 20:07	
2-Fluorophenol (S)	%.	31	10-78	10/03/18 20:07	
Nitrobenzene-d5 (S)	%.	53	22-108	10/03/18 20:07	
Phenol-d5 (S)	%.	22	10-61	10/03/18 20:07	

LABORATORY CONTROL SAMPLE: 2143483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	100	50.7	51	35-144	
2-Chlorophenol	ug/L	100	54.5	55	21-109	
4-Chloro-3-methylphenol	ug/L	100	60.8	61	27-134	
4-Nitrophenol	ug/L	100	21J	21	10-92	
N-Nitroso-di-n-propylamine	ug/L	100	62.3	62	31-121	
Pentachlorophenol	ug/L	100	69.1	69	24-144	
Phenol	ug/L	100	22.6	23	10-68	
2,4,6-Tribromophenol (S)	%.			66	23-126	
2-Fluorophenol (S)	%.			33	10-78	
Nitrobenzene-d5 (S)	%.			54	22-108	
Phenol-d5 (S)	%.			23	10-61	

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## QUALIFIERS

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

### 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.

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

### BATCH QUALIFIERS

Batch: 464193

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

Batch: 464386

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

Batch: 464387

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

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206626001	MW-6-20180926	EPA 8151	464193	EPA 8151	464372
50206626003	MW-14D-20180926	EPA 8151	464193	EPA 8151	464372
50206626005	MW-20D-20180926	EPA 8151	464193	EPA 8151	464372
50206626008	MW-21D-20180927	EPA 8151	464193	EPA 8151	464372
50206626009	EB-1-20180927	EPA 8151	464193	EPA 8151	464372
50206626012	MW-4-20180926	EPA 8151	464193	EPA 8151	464372
50206626016	MW-17-20180926	EPA 8151	464193	EPA 8151	464372
50206626019	MW-26D-20180927	EPA 8151	464193	EPA 8151	464372
50206626021	MW-DUP-1-20180927	EPA 8151	464193	EPA 8151	464372
50206626001	MW-6-20180926	EPA 3010	464085	EPA 6010	464767
50206626006	MW-28D-20180926	EPA 3010	464085	EPA 6010	464767
50206626001	MW-6-20180926	EPA 3010	464566	EPA 6010	464769
50206626006	MW-28D-20180926	EPA 3010	464566	EPA 6010	464769
50206626001	MW-6-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626002	MW-10-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626003	MW-14D-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626004	MW-20-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626005	MW-20D-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626006	MW-28D-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626007	MW-22-20180927	EPA 3510	464329	EPA 8270 by SIM	464614
50206626008	MW-21D-20180927	EPA 3510	464329	EPA 8270 by SIM	464614
50206626009	EB-1-20180927	EPA 3510	464329	EPA 8270 by SIM	464614
50206626012	MW-4-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626013	MW-7DD-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626014	MW-9-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626015	MW-11-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626016	MW-17-20180926	EPA 3510	464329	EPA 8270 by SIM	464614
50206626017	MW-18-20180927	EPA 3510	464329	EPA 8270 by SIM	464614
50206626018	MW-18D-20180927	EPA 3510	464329	EPA 8270 by SIM	464614
50206626019	MW-26D-20180927	EPA 3510	464329	EPA 8270 by SIM	464614
50206626020	MW-27D-20180927	EPA 3510	464387	EPA 8270 by SIM	464616
50206626021	MW-DUP-1-20180927	EPA 3510	464387	EPA 8270 by SIM	464616
50206626001	MW-6-20180926	EPA 3510	464327	EPA 8270	464613
50206626002	MW-10-20180926	EPA 3510	464327	EPA 8270	464613
50206626003	MW-14D-20180926	EPA 3510	464327	EPA 8270	464613
50206626004	MW-20-20180926	EPA 3510	464327	EPA 8270	464613
50206626005	MW-20D-20180926	EPA 3510	464327	EPA 8270	464613
50206626006	MW-28D-20180926	EPA 3510	464327	EPA 8270	464613
50206626007	MW-22-20180927	EPA 3510	464327	EPA 8270	464613
50206626008	MW-21D-20180927	EPA 3510	464327	EPA 8270	464613
50206626009	EB-1-20180927	EPA 3510	464327	EPA 8270	464613
50206626012	MW-4-20180926	EPA 3510	464327	EPA 8270	464613
50206626013	MW-7DD-20180926	EPA 3510	464327	EPA 8270	464613
50206626014	MW-9-20180926	EPA 3510	464327	EPA 8270	464613
50206626015	MW-11-20180926	EPA 3510	464327	EPA 8270	464613
50206626016	MW-17-20180926	EPA 3510	464327	EPA 8270	464613

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Columbus Wood Treating

Pace Project No.: 50206626

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206626017	MW-18-20180927	EPA 3510	464327	EPA 8270	464613
50206626018	MW-18D-20180927	EPA 3510	464327	EPA 8270	464613
50206626019	MW-26D-20180927	EPA 3510	464327	EPA 8270	464613
50206626020	MW-27D-20180927	EPA 3510	464386	EPA 8270	464617
50206626021	MW-DUP-1-20180927	EPA 3510	464386	EPA 8270	464617
50206626001	MW-6-20180926	EPA 8260	465246		
50206626002	MW-10-20180926	EPA 8260	465246		
50206626003	MW-14D-20180926	EPA 8260	465246		
50206626004	MW-20-20180926	EPA 8260	465246		
50206626005	MW-20D-20180926	EPA 8260	465246		
50206626006	MW-28D-20180926	EPA 8260	465246		
50206626007	MW-22-20180927	EPA 8260	465246		
50206626008	MW-21D-20180927	EPA 8260	465247		
50206626009	EB-1-20180927	EPA 8260	465247		
50206626010	TB-1-20180926	EPA 8260	465247		
50206626011	TB-2-20180927	EPA 8260	465247		
50206626012	MW-4-20180926	EPA 8260	465247		
50206626013	MW-7DD-20180926	EPA 8260	465247		
50206626014	MW-9-20180926	EPA 8260	465247		
50206626015	MW-11-20180926	EPA 8260	465247		
50206626016	MW-17-20180926	EPA 8260	465247		
50206626017	MW-18-20180927	EPA 8260	465246		
50206626018	MW-18D-20180927	EPA 8260	465247		
50206626019	MW-26D-20180927	EPA 8260	465247		
50206626020	MW-27D-20180927	EPA 8260	465247		
50206626021	MW-DUP-1-20180927	EPA 8260	465247		
50206626022	TB-3-20180927	EPA 8260	465247		

## REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <u>1</u> of <u>2</u>	
Company: August Mack Environmental		Report To: Pilar Cuadra		Attention: Pilar Cuadra		<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER   Brownfields <b>Site Location</b> STATE: <u>IN</u>	
Address: 1302 N. Meridian Street		Copy To: Andy Tennyson		Company Name: August Mack Environmental			
Indianapolis, IN 46202				Address: 1302 N. Meridian Street Indianapolis			
Email To: pcuadra@augustmack.com		Purchase Order No.:		Pace Quote Reference:			
Phone: (317) 916-8000   Fax: (317) 916-8001		Project Name: Former Columbus Wood Treating		Pace Project Manager: Kelly Jones			
Requested Due Date/TAT: Standard		Project Number: JS0449.350		Pace Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	VOCs via 8260	SVOCs/PAHs 8270C/8270 SIM		Total Arsenic via 6010	Dissolved Arsenic 6010	Hexavalent Chromium via 7199	Herbicides via 8151	MS/MSD							
					DATE	TIME	DATE	TIME																									
1	MW-6-20180926	WT	6				9/26/18	945	3	X	X	X							X	X	X	X							001				
2	MW-10-20180926	WT	6				9/26/18	1120	5	X	X	X							X	X	X	X							002				
3	MW-14D-20180926	WT	6				9/26/18	1300	6	X	X	X							X	X	X	X							003				
4	MW-20-20180926	WT	6				9/26/18	1415	5	X	X	X							X	X	X	X							004				
5	MW-20D-20180926	WT	6				9/26/18	1530	6	X	X	X							X	X	X	X							005				
6	MW-28D-20180926	WT	6				9/26/18	1640	7	X	X	X							X	X	X	X							006				
7	MW-22-20180927	WT	6				9/27/18	1005	5	X	X	X							X	X	X	X							007				
8	MW-21D-20180927	WT	6				9/27/18	1115	6	X	X	X							X	X	X	X							008				
9	MW-21-20180927	WT	6				9/27/18	1215	1																					009			
10	EB-1-20180927	WT	6				9/27/18	1305	6	X	X	X							X	X	X	X								010			
11	TB-1-20180926	WT	6				9/26/18	-	3																					011			
12	TB-2-20180927	WT	6				9/27/18	-	3																					012			
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																
					Scott Kolenka / AME		9-28-18		955		[Signature]		9/28/18		0955		2.5		Y   N   Y														
J-flag PCP for 8270																	1.4																
Herbicides via 8151 includes pentachlorophenol only																																	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Ryan Johnson					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YY): 9/27/18					





# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A  
Required Client Information:

Section B  
Required Project Information:

Section C  
Invoice Information:

Page: 2 of 3

Company: August Mack Environmental	Report To: Pilar Cuadra	Attention: Pilar Cuadra	<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER Brownfields
Address: 1302 N. Meridian Street	Copy To: Andy Tennyson	Company Name: August Mack Environmental	
Indianapolis, IN 46202		Address: 1302 N. Meridian Street Indianapolis	
Email To: pcuadra@augustmack.com	Purchase Order No.:	Pace Quote Reference:	
Phone: (317) 916-8000 Fax: (317) 916-8001	Project Name: Former Columbus Wood Treating	Pace Project Manager: Kelly Jones	
Requested Due Date/TAT: Standard	Project Number: JS0449.350	Pace Profile #:	Site Location: IN STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WT PRODUCT WW SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		VOCs via 8260	SVOCs/PAHs 8270C/8270 SIM	Total Arsenic via 6010	Dissolved Arsenic 6010	Hexavalent Chromium via 7199	Herbicides via 8151	MS/MSD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				
PRINT Name of SAMPLER: Ayan Johnson									
SIGNATURE of SAMPLER: [Signature]									
DATE Signed (MM/DD/YY): 9/27/18									



# SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50266624

Date/Time and Initials of person examining contents: 09/28/18 gk 1230

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other \_\_\_\_\_

Thermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 2.6/2.5 1.5/1.4 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

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

	Yes	No		Yes	No	N/A
Are samples from West Virginia?		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been checked?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Document any containers out of temp.			All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	<input checked="" type="checkbox"/>		
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	Circle: <u>HNO3</u> H2SO4 NaOH NaOH/ZnAc			
Chain of Custody Present:	<input checked="" type="checkbox"/>		Dissolved Metals field filtered?:	<input checked="" type="checkbox"/>		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide			<input checked="" type="checkbox"/>
Short Hold Time Analysis (<72hr)?:		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Analysis:			Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab:			Headspace in VOA Vials (>6mm):		<input checked="" type="checkbox"/>	
Rush TAT Requested:		<input checked="" type="checkbox"/>	Trip Blank Present?:	<input checked="" type="checkbox"/>		
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Custody Seals?:	<input checked="" type="checkbox"/>		
Sample Label (IDs/Dates/Times) Match COC?:	<input checked="" type="checkbox"/>					
Except TCs, which only require sample ID						

Comments: Sample MW-17-20180926 V69M reached lid 1/3.

# Sample Container Count

CLIENT: August Mack

COC PAGE 1 of 2

COC ID# \_\_\_\_\_

Project # \_\_\_\_\_

Sample Line Item	DG9H (Vial)	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R	Bulk Kit	SBS DI	Matrix SI/WT/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH >12
1	3	2		1										2						WT	✓		
2	3	2																		WT			
3	3	2		1																WT			
4	3	2																		WT			
5	3	2		1																WT			
6	3	2		1/4										2						WT	✓		
7	3	2																		WT			
8	3	2		1																WT			
9																				<del>WT</del>			
10	3	2		1																WT			
11	3																			WT			
12	3																			WT			

## Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				



WO# : 50206626

50206626

COC ID# \_\_\_\_\_

Project # 5026026

BK

Matrix S/N  
(Soil/Water  
Aqueous Li)

pH <2   pH >9   pH>12

## Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved <b>amber</b> vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved <b>clear</b> vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

Page 123 of 123

October 09, 2018

Pilar Cuadra  
August Mack Environmental Consultants  
1302 N. Meridian St.  
Indianapolis, IN 46202

RE: Project: Former Columbus Wood Treating  
Pace Project No.: 50206627

Dear Pilar Cuadra:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kelly Jones  
kelly.jones@pacelabs.com  
(317)228-3100  
Project Manager

Enclosures

cc: Zack Ramey, August Mack Environmental  
Andy Tennyson, August Mack Environmental Consultants



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Former Columbus Wood Treating

Pace Project No.: 50206627

---

### Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas/NELAP Certification #: E-10177

Kentucky UST Certification #: 80226

Kentucky WW Certification #: 98019

Ohio VAP Certification #: CL-0065

Oklahoma Certification #: 2017-124

Texas Certification #: T104704355-18-12

West Virginia Certification #: 330

Wisconsin Certification #: 999788130

USDA Soil Permit #: P330-16-00257

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Former Columbus Wood Treating

Pace Project No.: 50206627

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50206627001	WC-1-WI-3Q18-0-3	Water	09/27/18 15:55	09/28/18 09:55

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## SAMPLE ANALYTE COUNT

Project: Former Columbus Wood Treating

Pace Project No.: 50206627

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50206627001	WC-1-WI-3Q18-0-3	EPA 8151	NPW	2	PASI-I

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Columbus Wood Treating

Pace Project No.: 50206627

Sample: WC-1-WI-3Q18-0-3		Lab ID: 50206627001		Collected: 09/27/18 15:55		Received: 09/28/18 09:55		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8151A CI Acid Herbicide Waters		Analytical Method: EPA 8151 Preparation Method: EPA 8151							
Pentachlorophenol		ND	ug/L	1.1	1	10/01/18 10:12	10/09/18 11:32	87-86-5	
Surrogates									
2,4-DCAA (S)		53	%.	37-147	1	10/01/18 10:12	10/09/18 11:32	19719-28-9	

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Columbus Wood Treating

Pace Project No.: 50206627

QC Batch: 464193

Analysis Method: EPA 8151

QC Batch Method: EPA 8151

Analysis Description: 8151A GCS Herbicides

Associated Lab Samples: 50206627001

METHOD BLANK: 2142816

Matrix: Water

Associated Lab Samples: 50206627001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	1.0	10/08/18 17:18	
2,4-DCAA (S)	%.	88	37-147	10/08/18 17:18	

LABORATORY CONTROL SAMPLE: 2142817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	ug/L	5	4.7	93	63-110	
2,4-DCAA (S)	%.			87	37-147	

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

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Former Columbus Wood Treating

Pace Project No.: 50206627

---

### 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.

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

### BATCH QUALIFIERS

Batch: 464193

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

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Columbus Wood Treating

Pace Project No.: 50206627

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50206627001	WC-1-WI-3Q18-0-3	EPA 8151	464193	EPA 8151	464372

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50206627

Date/Time and Initials of

person examining contents: 09/18/18 gvr 1225

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ OtherThermometer: 1 2 3 4 5 6 A B C D E F Ice Type: ☒ Wet ☐ Blue ☐ None | Samples collected today and on ice: ☐ Yes ☐ No ☒ N/ACooler Temperature: 26/2.5 15/1.4 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C

If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

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

	Yes	No		Yes	No	N/A
Are samples from West Virginia?		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been checked?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Document any containers out of temp.			All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	Circle: HNO3 H2SO4 NaOH NaOH/ZnAc			<input checked="" type="checkbox"/>
Chain of Custody Present:	<input checked="" type="checkbox"/>					
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>		Dissolved Metals field filtered?:			<input checked="" type="checkbox"/>
Short Hold Time Analysis (<72hr)?:		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
Analysis:			Headspace Wisconsin Sulfide			
Time 5035A TC placed in Freezer or Short Holds To Lab:			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
			Residual Chlorine Check (Total/Amenable/Free Cyanide)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rush TAT Requested:		<input checked="" type="checkbox"/>	Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Trip Blank Present?:			
Sample Labels Match COC?:	<input checked="" type="checkbox"/>					
Except TCs, which only require sample ID			Trip Blank Custody Seals?:			

Comments:

# Sample Container Count

WO#: 50206627

CLIENT: August Mack

COC PAGE 1 of 1

COC ID# \_\_\_\_\_

Project # 50206627



Sample Line Item	DG9H	VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bu Kit	R	Matrix (Soil/W Aqueor)	pH <2	pH >9	pH >12
1					1															WT			
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

## Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass	BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
DG9H	40mL HCL amber vial	AG1H	1 liter HCL amber glass	BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass	BP1S	1 liter H2SO4 plastic		
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass	BP1U	1 liter unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG1U	1 liter unpreserved amber glass	BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass	BP2O	500mL NaOH plastic	U	Summa Can
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass	BP2U	500mL unpreserved plastic		
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass	BP2Z	500mL NaOH, Zn Ac		
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGKU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass	BP3S	250mL H2SO4 plastic		
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass				
		BG3U	250mL Unpreserved Clear Glass				

# NOTIFICATION FOR UNDERGROUND STORAGE TANKS

FORM APPROVED  
OMB NO. 2030-0068  
APPROVAL EXPIRES 9-30-91

FOR  
TANKS  
IN  
IN

RETURN  
COMPLETED  
FORM  
TO

Indiana Department of Environmental Management  
Office of Environmental Response  
UST Program  
P.O. Box 7015  
Indianapolis, Indiana 46207-7015

(317) 243-5022

STATE USE ONLY

I.D. Number

014812

Date Received

## GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief or recollection.

**Who Must Notify?** Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means:

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tanks used for the storage, use or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

**What Tanks are Included?** Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

**What Tanks are Excluded?** Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes.

2. tanks use for storing heating oil for consumptive use on the premises where stored.

3. septic tanks.

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;

5. surface impoundments, pits, ponds, or lagoons,

6. storm water or waste water collection systems,

7. flow-through process tanks,

8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations,

9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

**What Substances are Covered?** The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA, but also includes petroleum, e.g., crude oil or any fraction thereof, which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

**Where To Notify?** Completed notification forms should be sent to the address given at the top of this page.

**When to Notify?** 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

**Penalties:** Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

## INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

2

### I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

REBECCA CSESZKO

Street Address

1621 Franklin St.

County

Barth.

City

Columbus, In.

ZIP Code

47201

Area Code

Phone Number

Type of Owner (mark all that apply)

☐ Current ☐ State or Local Gov't ☐ Private or Corporate  
☐ Former ☐ Federal Gov't ☐ Ownership uncertain  
(GSA facility I.D. no. )

### II. LOCATION OF TANK(S)

(If same as Section I, mark box here) ☐

Facility Name or Company Site Identifier, as applicable

Bob's Car Wash

Street Address or State Road, as applicable

711 2nd. St.

County

Barth.

City (nearest)

Columbus, In.

State

ZIP Code

47201

Indicate number of tanks at this location

2

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

### III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here) ☒

Job Title

Area Code

Phone Number

### IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

### V. CERTIFICATION (READ AND SIGN AFTER COMPLETING SECTION VI)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

Signature

Rebecca Cseszko

Date Signed

9-9-92

**VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (COMPLETE FOR EACH TANK AT THIS LOCATION)**

Tank Identification No. (e.g., ABC-123) or Arbitrarily Assigned Sequential Number e.g., 1,2,3...	Tank No. 1	Tank No. 2	Tank No.	Tank No.	Tank No.
1. Status of Tank (mark all that apply)					
Currently in Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brought into Use after 5/8/86	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Year Installed (e.g., 1986)	unknown	unknown			
3. Estimated Total Capacity (Gallons)	8,000	8,000			
4. Material of Construction (mark all that apply)					
Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Please Specify					
5. Internal Protection (mark all that apply)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior Lining (e.g., epoxy resins)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Please Specify					
6. External Protection (mark all that apply)					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Painted (e.g., asphaltic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic Coated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Please Specify					
7. Piping (mark all that apply)					
Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Please Specify					
8. Substance Currently or Last Stored In Greatest Quantity by Volume (mark all that apply)					
a. Empty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Petroleum					
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Please Specify					
c. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please Indicate Name of Principal CERCLA Substance or Chemical Abstract Service (CAS) No.					
Mark box if tank stores a mixture of substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Additional Information (for tanks permanently taken out of service)					
a. Closure Date (mo./yr.)	7/92	7/92	/	/	/
b. Mark box if removed from the ground	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Mark box if tank filled with inert material (e.g., sand, concrete gravel)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VII. CERTIFICATION OF COMPLIANCE (CONTINUED FROM PAGE 3)

15. OATH: I certify that the information concerning installation, upgrade or closure provided in Item 14 is true to the best of my belief and knowledge

Installer: (Print)

J. E. ROSS

Name

9-15-92

Date

Owner

Position

J. E. ROSS SERVICE

Company

St. Maintenance

(Signature)

J. E. Ross

Name

Certification Number:

90-03-4

16. ☐ I have financial responsibility in accordance with Subpart I. Please specify:

Method: \_\_\_\_\_

Insurer: \_\_\_\_\_

Policy Number: \_\_\_\_\_

VIII. DIAGRAM OF TANK FACILITY (INCLUDE ALL NEW OR EXISTING TANKS AND THEIR ASSOCIATED PIPING AND DISPENSERS)



INITIAL INCIDENT REPORT  
LEAKING UNDERGROUND STORAGE TANK SECTION  
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

COUNTY: Boothbarn  
CITY: Columbus  
DATE: 7/30/92

LUST INCIDENT #: 92-05-32

SITE RANKING: HIGH; MEDIUM; LOW

FACILITY NAME: Bob's Car Wash

FACILITY REGISTRATION I.D. #: \_\_\_\_\_

FACILITY ADDRESS: 711 EAST 2<sup>nd</sup> ST.

MEDIA IMPACTED: SOIL; GROUNDWATER; BOTH  
TYPE:

TANKS:

   K; 10K; 8K; 6K; 4K; 2K; 1K;    K; LINE  
   K; 10K; 8K; 6K; 4K; 2K; 1K;    K; LINE  
   K; 10K; 8K; 6K; 4K; 2K; 1K;    K; LINE  
   K; 10K; 8K; 6K; 4K; 2K; 1K;    K; LINE  
   K; 10K; 8K; 6K; 4K; 2K; 1K;    K; LINE  
   K; 10K; 8K; 6K; 4K; 2K; 1K;    K; LINE

GASOLINE; DIESEL; WASTE OIL; HAZARDOUS  
GASOLINE; DIESEL; WASTE OIL; HAZARDOUS  
GASOLINE; DIESEL; WASTE OIL; HAZARDOUS  
GASOLINE; DIESEL; WASTE OIL; HAZARDOUS  
GASOLINE; DIESEL; WASTE OIL; HAZARDOUS  
GASOLINE; DIESEL; WASTE OIL; HAZARDOUS

RESPONSIBLE PARTY: Bredon Realty

ADDRESS: 1427 Washington CITY: Columbus STATE: \_\_\_\_\_

CONTACT PERSON: Rebecca Bredon PHONE NUMBER: (    ) 47246 - \_\_\_\_\_

REPORTED BY: Tim Ross

COMPANY: JE Ross Maint

ADDRESS: 214 Union St

CITY: Hope STATE: \_\_\_\_\_

PHONE NUMBER: (812) 546-4117

certification # 47246  
90-03-04

COMMENTS: Fred Nichols (Amec. Envir.) will perform environ.  
assessment & forward to IDEM. Results revealed  
>1,000 ppb at Tank Basin.

MET WITH Tim Ross HE indicated side walls at N.D. levels although Tank Basin  
has high readings at this time (~17' deep) NO G.W. encountered.  
Will meet with FRED NICHOLS on Friday to discuss Bioremediation process.

D.L.C. 8-4-92

SUBMITTED BY: DK

WASH BAY  
WASH BAY

X

XX

EXCAVATION

2<sup>nd</sup> Street



**STEP 1: Category selection**

Check the category which most closely resembles the LUST site. (Select only the highest priority category identified.)

**STEP 2: Qualifying Factor Score**

Each category is ranked by up to three qualifying factor sets. Select the example which most closely represents the LUST site by checking box A or B for each qualifying factor.

High Priorities		Drinking Water Intake	Contaminant Type	Population Affected	Soil Type
<b>1</b>	Inhabitable Building Affected and / or Drinking Water Affected	<input type="checkbox"/> A < .25 miles	<input type="checkbox"/> A Gasoline	<input type="checkbox"/> A Many	<input type="checkbox"/> A Sandy
		<input type="checkbox"/> B > .25 miles	<input type="checkbox"/> B Other	<input type="checkbox"/> B Few	<input type="checkbox"/> B Clayey
<b>2</b>	Water Impacted and Free Product Detected	<input type="checkbox"/> A < .25 miles	<input type="checkbox"/> A Gasoline	<input type="checkbox"/> A Many	<input type="checkbox"/> A Sandy
		<input type="checkbox"/> B > .25 miles	<input type="checkbox"/> B Other	<input type="checkbox"/> B Few	<input type="checkbox"/> B Clayey
<b>3</b>	Utility Conduits Affected	<input type="checkbox"/> A < .25 miles	<input type="checkbox"/> A Gasoline	<input type="checkbox"/> A Many	<input type="checkbox"/> A Sandy
		<input type="checkbox"/> B > .25 miles	<input type="checkbox"/> B Other	<input type="checkbox"/> B Few	<input type="checkbox"/> B Clayey

**Medium Priorities**

<b>4</b>	Water Impacted Without Free Product Detection	<input type="checkbox"/> A < .25 miles	<input type="checkbox"/> A Gasoline	<input type="checkbox"/> A Many	<input type="checkbox"/> A Sandy
		<input type="checkbox"/> B > .25 miles	<input type="checkbox"/> B Other	<input type="checkbox"/> B Few	<input type="checkbox"/> B Clayey

**Low Priorities**

<b>5</b>	Soils Only Impacted	<input type="checkbox"/> A < .25 miles	<input type="checkbox"/> A Gasoline	<input type="checkbox"/> A Many	<input type="checkbox"/> A Sandy
		<input type="checkbox"/> B > .25 miles	<input type="checkbox"/> B Other	<input type="checkbox"/> B Few	<input type="checkbox"/> B Clayey

**LEVEL OF INVOLVEMENT**

<input type="checkbox"/>	Voluntary - active	
<input type="checkbox"/>	Voluntary - limited	
<input type="checkbox"/>	Voluntary - none	
<input type="checkbox"/>	State Lead	
<input type="checkbox"/>	Enforcement	
<input type="checkbox"/>	Unknown	

**ALTERNATIVE TECHNOLOGY**

<input type="checkbox"/>	Landfarming	
<input type="checkbox"/>	Bioremediation	
<input type="checkbox"/>	Soil Vapor Extraction	
<input type="checkbox"/>	Pump & Treat	
<input type="checkbox"/>		
<input type="checkbox"/>		



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
*We make Indiana a cleaner, healthier place to live*

Frank O'Bannon  
Governor

Lori F. Kaplan  
Commissioner

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.state.in.us/idem](http://www.state.in.us/idem)

November 12, 1999

**VIA CERTIFIED MAIL:** Z 376 741 092

Bob Cseszko  
Custom Brush, Inc.  
711 E. 2nd Street  
Columbus, IN 47201

Dear Mr. Cseszko :

Re: Site Activity Update  
FID#: 14812  
LUST#: 9207532

The technical staff of a private consultant, under contract to the Indiana Department of Environmental Management (IDEM) have recently reviewed your file pertaining to a release of petroleum product at the facility referenced above. According to your file, the latest correspondence received from you or your representative regarding this facility is an Initial Incident Report Form dated July 30, 1992.

The IDEM Leaking Underground Storage Tank (LUST) Section is responsible for tracking progress of all LUST sites throughout the state. As the staff person assigned to this site, I would like to update your file so that its contents reflect the status of your facility. Pursuant to 329 Indiana Administrative Code (IAC) 9-3-1, I am requesting that you submit all information summarizing the status of your referenced LUST site by listing actions taken to date which are not documented in the IDEM files. Please submit this documentation **within 30 days**.

The Initial Incident Report indicates that Mr. Fred Nichols of American Environmental met with IDEM staff concerning bioremediation measures to be taken at the site but the file contains no evidence that any bioremediation procedures were instituted. Please submit an UST System Closure Site Assessment Report for the former underground storage tank, along with the results of any bioremediation procedures that may have been utilized.

Please note that failure to submit required documentation is a violation of State and Federal laws. **If you choose not to respond to this request for update information, you may be subject to formal enforcement actions.** The significance of such an action is the assessment of civil penalties not to exceed \$10,000 per day. If you anticipate seeking reimbursement for your petroleum cleanup costs, please contact the ELF Section at (317) 308-3066.

Please contact Ms. Mandy Fleck at (317) 308-3394 during office hours to discuss this request or determine what documents presently exist in your file.

Sincerely,

Kathleen M. Simonson  
Leaking Underground Storage Tank Section  
Office of Land Quality

KMS/mf  
cc: IDEM file

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

**3. Article Addressed to:**

67-18  
Bob Cseszko  
Custom Brush, Inc.  
711 E. 2<sup>nd</sup> Street  
Columbus, In 47201

M.F

**4a. Article Number**

Z 376 741 092

**4b. Service Type**

- |   |   |
|---|---|
| <input type="checkbox"/> Registered                     | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail                   | <input type="checkbox"/> Insured              |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD                  |

**7. Date of Delivery**

11-18-99

**5. Received By: (Print Name)**

**6. Signature: (Addressee or Agent)**



**8. Addressee's Address (Only if requested and fee is paid)**

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Site Name: Bob's Car Wash

Address: 711 2nd St.

Columbus, In

FID #: 14812 Incident #: 9207532

Final Status: Discontinued

Reason for final status: a divorce split ~~a divorce~~ property in 11/2. 1/2 property

has a building on it & other 1/2 is owned by Bob's Car Wash  
Complicated file



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, IN 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

VIA CERTIFIED MAIL:

DEC 03 2013

67-02 bdavis  
Robert J. Czeszko  
PO Box 764  
Columbus, IN 47202-0764

Attn: Robert J. Czeszko

Excess Liability Trust Fund Claim  
Bob's Car Wash  
711 East 2nd Street  
Columbus, IN 47201 County  
ELTF # 199207532 FID # 14812

Dear Mr. Czeszko:

On October 25, 2012, the Excess Liability Trust Fund Section (ELTF) received your application for ELTF eligibility. As per 328 IAC 1-3-1(b) (1) and (2), to be eligible for the fund, an ELTF qualifying occurrence must occur, and an Initial Site Characterization (ISC) must be submitted as described in the rules of the solid waste management board (329 IAC 9-5-5.1).

At this time your application cannot be evaluated for ELTF eligibility because you have not submitted the required ISC. Please submit the ISC in order for the ELTF to evaluate the eligibility determination for this release.

If additional documentation is subsequently provided, IDEM reserves the right to modify or change the determination as the situation may warrant. If you have any further questions, please contact Brian Pace at (317) 234-0990.

Sincerely,

William D. Davis, LPG #857  
Chief, ELTF Technical Section  
Underground Storage Tank Branch  
Office of Land Quality

WDD/bap

**Smith, Sandra K**

---

**From:** DoNotReply@pb.com  
**Sent:** Saturday, January 05, 2013 11:45 PM  
**To:** Smith, Sandra K  
**Subject:** Package Delivery Notification: Carrier = POST, TrackingNr = 9171900005271000252487

This delivery notification is to alert you that a package was delivered to:

Robert J. Cseszko  
Attn:  
P.O. Box 764

Columbus , IN 472020764 US

The package was delivery on 1/4/2013 2:38:00 PM

**Package Detail:**

TrackingNr: 9171900005271000252487  
Service: 2PM  
Weight: 0.037  
Pieces: 1  
BillNr: Z900000342046

Your package can be tracked from URL:

<https://tools.usps.com/go/TrackConfirmAction input?origTrackNum=9171900005271000252487>





Date: 01/08/2013

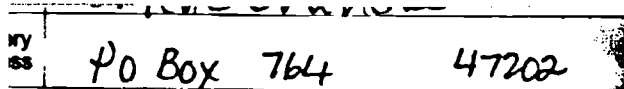
IDEM OLQ ELTF:

The following is in response to your 01/08/2013 request for delivery information on your Certified Mail(TM) item number 7190 0005 2710 0025 2487. The delivery record shows that this item was delivered on 01/04/2013 at 02:38 PM in COLUMBUS, IN 47202. The scanned image of the recipient information is provided below.

Signature of Recipient:

Address of Recipient:

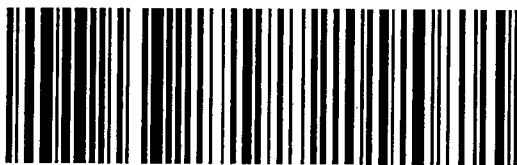
  
PO Box 764 47202

Thank you for selecting the Postal Service for your mailing needs. If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,

United States Postal Service

IDEM  
Sandra Smith  
100 NORTH SENATE AVE.  
INDIANAPOLIS IN 46204



91 7190 0005 2710 0025 2487

Robert J. Czeszko  
P.O. Box 764  
Columbus IN 472020764

199207532-1



## Shipment Request Form PBMS State of Indiana



Z900000342046

Agency IDEM

## From:

Name: Sandra Smith

Department:

Phone: 317-234-4341

ECertified: True

EReturn Receipt: True

To:

Ship To 1: Robert J. Cseszko

Ship To 2:

Address: P.O. Box 764

Columbus, IN 47202-0764

Country: US

## Special Instructions:

Reference:

Requested Date: 1/3/2013 10:47:52 AM

To print this form:

- 1) Click the Print button. (Print two copies, one to attach to your package and one to keep for your records.)
- 2) Place the form in a waybill pouch or attach it to your shipment so that the barcode portion of the page can be read and scanned.
- 3) If ECertified cover letter was selected , place letter contents along with eCertified cover letter in special certified envelope so that Certified Bar code shows through window.

Form (1 of 1)

Indiana Department of  
Environmental Management  
Office of Environmental Response  
UST Program  
P.O. Box 7015  
Indianapolis, IN 46207-7015

66-32

Tanks

FORM APPROVED  
OMB NO. 2050-0049  
APPROVAL EXPIRES 6-30-88

I.D. Number  
001848  
Date Received

(317) 243-5022

INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

**Who Must Notify?** Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

**What Tanks Are Included?** Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

**What Tanks Are Excluded?** Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly associated with oil and gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

**What Substances Are Covered?** The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

**Where To Notify?** Completed notification forms should be sent to the address given at the top of this page.

**When To Notify?** 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

**Penalties:** Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

PREMIER AG CO-OP., INC.

Street Address 766 WEST MAIN STREET

P. O. BOX 229

County GREENSBURG, IN 47240

City State ZIP Code

812 663 6411

Area Code Phone Number

Type of Owner (Mark all that apply ☒)

☐ Current

☐ State or Local Gov't

☐ Private or Corporate

☐ Former

☐ Federal Gov't (GSA facility I.D. no. \_\_\_\_\_)

☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Facility Name or Company Site Identifier, as applicable

PREMIER AG CO-OP., INC.

Street Address or State Road, as applicable

501 2nd St

County

DECATUR

City (nearest)

Columbus

State

IN

ZIP Code

47201

Indicate number of tanks at this location

0

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐)

Job Title

Area Code

Phone Number

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

Wayne Johnson

Signature

Wayne Johnson

Date Signed

6/29/89

CONTINUE ON REVERSE SIDE

**VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS** (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
<b>1. Status of Tank</b> (Mark all that apply <input checked="" type="checkbox"/> ) <div style="display: flex; justify-content: space-between;"> <div>Currently in Use</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Temporarily Out of Use</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Permanently Out of Use</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Brought into Use after 5/8/86</div> <div><input type="checkbox"/></div> </div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2. Estimated Age (Years)</b>					
<b>3. Estimated Total Capacity (Gallons)</b>					
<b>4. Material of Construction</b> (Mark one <input checked="" type="checkbox"/> ) <div style="display: flex; justify-content: space-between;"> <div>Steel</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Concrete</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Fiberglass Reinforced Plastic</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Unknown</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Other, Please Specify</div> <div></div> </div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5. Internal Protection</b> (Mark all that apply <input checked="" type="checkbox"/> ) <div style="display: flex; justify-content: space-between;"> <div>Cathodic Protection</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Interior Lining (e.g., epoxy resins)</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>None</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Unknown</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Other, Please Specify</div> <div></div> </div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6. External Protection</b> (Mark all that apply <input checked="" type="checkbox"/> ) <div style="display: flex; justify-content: space-between;"> <div>Cathodic Protection</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Painted (e.g., asphaltic)</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Fiberglass Reinforced Plastic Coated</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>None</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Unknown</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Other, Please Specify</div> <div></div> </div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7. Piping</b> (Mark all that apply <input checked="" type="checkbox"/> ) <div style="display: flex; justify-content: space-between;"> <div>Bare Steel</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Galvanized Steel</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Cathodically Protected</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Unknown</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Other, Please Specify</div> <div></div> </div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8. Substance Currently or Last Stored in Greatest Quantity by Volume</b> (Mark all that apply <input checked="" type="checkbox"/> ) <div style="display: flex; justify-content: space-between;"> <div>a. Empty</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>b. Petroleum</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Diesel</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Kerosene</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Gasoline (including alcohol blends)</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Used Oil</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Other, Please Specify</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>c. Hazardous Substance</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Please Indicate Name of Principal CERCLA Substance</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>OR</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Chemical Abstract Service (CAS) No.</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances</div> <div><input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-between;"> <div>d. Unknown</div> <div><input type="checkbox"/></div> </div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9. Additional Information (for tanks permanently taken out of service)</b> <div style="display: flex; justify-content: space-between;"> <div>a. Estimated date last used (mo/yr)</div> <div>REMOVED DEC 88</div> </div> <div style="display: flex; justify-content: space-between;"> <div>b. Estimated quantity of substance remaining (gal.)</div> <div></div> </div> <div style="display: flex; justify-content: space-between;"> <div>c. Mark box <input checked="" type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)</div> <div></div> </div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

105 South Meridian Street  
P.O. Box 6015  
Indianapolis 46206-6015  
Telephone 317-232-8603

June 22, 1989

Farmer's Marketing Association  
1075 East 2nd Street  
Columbus, Indiana 47201

Gentlemen:

Our office is updating our files. We have received your letter regarding the closure of your underground storage tank located at 801 2nd Street, Columbus, Indiana.

The current underground storage tank regulations require that we are sent a notification form when a tank is installed and when it is closed-out. Please complete the enclosed form to the best of your knowledge. If the tank has been removed, please write "REMOVED" and date of removal in space 9b.

If you have any questions, please contact Ms. Karla McDonald at AC 317/243-5151.

Sincerely,

Anne D. Black, Chief  
Underground Storage Tank Section  
Office of Environmental Response

DD/alw

Enclosure

Indiana Department of  
Environmental Management  
Office of Environmental Response  
UST Program  
P.O. Box 7015  
Indianapolis, IN 46207-7015

66-32

Tanks

FORM APPROVED  
OMB NO. 2050-0049  
APPROVAL EXPIRES 6-30-88

I.D. Number  
001848  
Date Received

(317) 243-8000

INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

**Who Must Notify?** Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

**What Tanks Are Included?** Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

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1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly associated with oil and gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

**What Substances Are Covered?** The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

**Where To Notify?** Completed notification forms should be sent to the address given at the top of this page.

**When To Notify?** 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

**Penalties:** Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

PREMIER AG CO-OP., INC.

Street Address 766 WEST MAIN STREET

P. O. BOX 229

County GREENSBURG, IN 47240

City State ZIP Code

812 663 6411

Area Code Phone Number

Type of Owner (Mark all that apply ☒)

☐ Current

☐ State or Local Gov't

☐ Private or Corporate

☐ Former

☐ Federal Gov't (GSA facility I.D. no. \_\_\_\_\_)

☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Facility Name or Company Site Identifier, as applicable

PREMIER AG CO-OP., INC.

Street Address or State Road, as applicable

501 2nd St

County

DECATUR

City (nearest)

COLUMBUS

State

IN

ZIP Code

47201

Indicate number of tanks at this location

0

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐)

Job Title

Area Code

Phone Number

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

RYANNE JOHNSON

Signature

RYANNE JOHNSON

Date Signed

6/29/89

CONTINUE ON REVERSE SIDE

## VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
<b>1. Status of Tank</b> (Mark all that apply <input checked="" type="checkbox"/> ) Currently in Use <input type="checkbox"/> Temporarily Out of Use <input type="checkbox"/> Permanently Out of Use <input type="checkbox"/> Brought into Use after 5/8/86 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>2. Estimated Age (Years)</b>					
<b>3. Estimated Total Capacity (Gallons)</b>					
<b>4. Material of Construction</b> (Mark one <input checked="" type="checkbox"/> ) Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Fiberglass Reinforced Plastic <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5. Internal Protection</b> (Mark all that apply <input checked="" type="checkbox"/> ) Cathodic Protection <input type="checkbox"/> Interior Lining (e.g., epoxy resins) <input type="checkbox"/> None <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6. External Protection</b> (Mark all that apply <input checked="" type="checkbox"/> ) Cathodic Protection <input type="checkbox"/> Painted (e.g., asphaltic) <input type="checkbox"/> Fiberglass Reinforced Plastic Coated <input type="checkbox"/> None <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>7. Piping</b> (Mark all that apply <input checked="" type="checkbox"/> ) Bare Steel <input type="checkbox"/> Galvanized Steel <input type="checkbox"/> Cathodically Protected <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8. Substance Currently or Last Stored in Greatest Quantity by Volume</b> (Mark all that apply <input checked="" type="checkbox"/> ) a. Empty <input type="checkbox"/> b. Petroleum <input type="checkbox"/> Diesel <input type="checkbox"/> Kerosene <input type="checkbox"/> Gasoline (including alcohol blends) <input type="checkbox"/> Used Oil <input type="checkbox"/> Other, Please Specify _____ c. Hazardous Substance <input type="checkbox"/> Please Indicate Name of Principal CERCLA Substance _____ OR Chemical Abstract Service (CAS) No. _____ Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances <input type="checkbox"/> d. Unknown <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9. Additional Information (for tanks permanently taken out of service)</b> a. Estimated date last used (mo/yr) <input type="checkbox"/> b. Estimated quantity of substance remaining (gal.) <input type="checkbox"/> c. Mark box <input checked="" type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

105 South Meridian Street  
P.O. Box 6015  
Indianapolis 46206-6015  
Telephone 317-232-8603

June 22, 1989

Farmer's Marketing Association  
1075 East 2nd Street  
Columbus, Indiana 47201

Gentlemen:

Our office is updating our files. We have received your letter regarding the closure of your underground storage tank located at 801 2nd Street, Columbus, Indiana.

The current underground storage tank regulations require that we are sent a notification form when a tank is installed and when it is closed-out. Please complete the enclosed form to the best of your knowledge. If the tank has been removed, please write "REMOVED" and date of removal in space 9b.

If you have any questions, please contact Ms. Karla McDonald at AC 317/243-5151.

Sincerely,

Anne D. Black, Chief  
Underground Storage Tank Section  
Office of Environmental Response

DD/alw

Enclosure

FED  
#7469

***Subsurface Investigation Report***

Future McDonalds  
610 2<sup>nd</sup> Street  
Columbus, Indiana 47201

AEE Project No. 150.06

February 14, 2006

**Prepared for:**

Mr. Jeff Bush  
Bushman Realty, LLC  
Columbus, Indiana

**Prepared by:**


Astbury Environmental Engineering, Inc.  
Indianapolis, Indiana



**AEE** Astbury  
Environmental  
Engineering, Inc.

5645 WEST 79TH STREET ▪ INDIANAPOLIS, INDIANA 46278 ▪ 317-472-0999 ▪ FAX 317-472-0993

February 14, 2006

cc:   
Mr. Jeff Bush  
Bushman Realty, LLC.  
6951 W. 300 South  
Columbus, Indiana 47201

RE: Geotech & Environmental  
Subsurface Investigation Report  
Future McDonalds  
610 2<sup>nd</sup> Street  
Columbus, Indiana 47201  
AEE Project #150.06

Dear Mr. Bush:

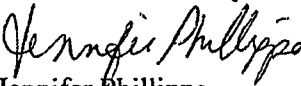
In compliance with your request, Astbury Environmental Engineering, Inc. (AEE) is pleased to provide you with this limited Subsurface Investigation Report for the project site located at 610 2<sup>nd</sup> Street in Columbus, Indiana (the "Site").

The Subsurface Investigation was performed to determine if the subsurface soils are suitable for building a single story concrete-slab structure and if past gasoline station operations have adversely impacted the Site with petroleum hydrocarbons. This report addresses our findings associated with the geotechnical and environmental activities performed at the Site.

If you have any questions or require additional information, please feel free to contact us at your convenience.

Sincerely,

ASTBURY ENVIRONMENTAL ENGINEERING, INC.

  
Jennifer Phillippe  
Staff Geologist

  
Fred W. Nichols  
Vice President, Business Development

JP/FWN:jp  
Enclosures

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## **1.0 INTRODUCTION**

**1.1 Project Introduction.** The project site, located at 610 2<sup>nd</sup> Street in Columbus, Indiana (the "Site"), is composed of three (3) lots bounded by Second Street, Lafayette Avenue, and Third Street. The northern lot, a former Hardees, was most recently a Mexican restaurant, the southern lot is a former kiosk gasoline station (facility identification number 7469), and the middle lot was used as a parking area. The location of the Site is depicted on the Site Location Map, Figure 1 in Appendix A. The layout of the Site, including utilities and sampling locations, is depicted on the Site Plan, Figure 2 also in Appendix A.

The Site is currently owned by Mr. Ted Weatherald, 2508 25<sup>th</sup> Street, Columbus, Indiana 47201. The southern lot of the Site was operated as a gas station by the Kiel Brothers Oil Company (Kiel Bros.) from 1995 to 2000, when the three (3) 12,000-gallons steel USTs were temporarily closed. Prior to the Kiel Bros., the gas station was owned and operated by the Highway Oil Company of Kansas since at least 1972. The USTs are reported to have been used to store both gasoline and diesel fuel. According to the Indiana Department of Environmental Management's (IDEM's) electronic database the USTs were permanently closed by removal in 2005. The Site is located in a commercial area of Columbus, Indiana, and is comprised of approximately one (1) acre of developed land.

## 2.0 SCOPE OF WORK

2.1 Scope Of Work. AEE's Subsurface Investigation (SI) included a limited soil and groundwater sampling program to evaluate the presence of contamination associated with the operation of the Site as a gas station and other nearby potential environmental concerns. Samples for geotechnical analysis by Earth Exploration, Inc. (Earth Exploration) were collected in addition to the soil and groundwater samples.

The SI included the advancement of ten (10) soil borings using a truck-mounted, rotary head drill rig equipped with 3.25-inch diameter hollow-stem augers (HSAs). Soil samples (from borings B-1 through B-10) were collected for geotechnical analysis including visual soils classification, natural moisture content, Atterberg limits determinations, and calibrated hand penetrometer readings (to provide an indication of the shear strength characteristics of cohesive-type soils). Soil samples in the vicinity of the underground storage tank (UST) farm and fuel dispensing islands (B-8 through B-10) were collected during the investigation and split to allow for field headspace analysis and potential selection for laboratory analysis. A grab groundwater sample (from B-7) was obtained by lowering a polyvinyl chloride (PVC) screen into the borehole and letting groundwater accumulate (piezometer).

2.2 Soil Sampling Technique. Subsurface soil samples were collected on a continuous basis using standard split-spoon methods (except the near surface interval). A Standard Penetration Test (SPT) was conducted at each sample interval in general accordance with ASTM D-1586 specifications. The split-spoon sampler was decontaminated with a mild detergent wash and a distilled water rinse prior to each sampling interval. The HSAs were decontaminated between boreholes using a high-pressure washer.

Soil samples were visually classified in the field according to color, grain size, texture, grain fabric and relative moisture content. Visual and olfactory evidence of staining and distinct odors were also noted, if present.

Samples were also screened in the field for the presence of total organic vapors using a photoionization detector (PID). The PID was equipped with a 10.6 eV lamp. Conventional, closed container headspace methods were used to screen the soil samples. The PID was calibrated to an isobutylene standard prior to field work. The PID values for each sampling interval can be found on Table 1 below. Recorded PID readings are also presented on the Soil Boring Logs in Appendix B.

One (1) soil sample was retained from each of the four (4) soil borings (B-7 through B-10) in the vicinity of the underground storage tank (UST) farm and fuel dispensing islands for laboratory testing. Samples were labeled, stored in sealed laboratory-supplied containers, placed in a cooler containing ice maintained at or below 4°C and transported to ESG Laboratories, located in Indianapolis, Indiana, following all chain-of-custody controls. The samples were analyzed for total petroleum hydrocarbons (TPH) in both the diesel and gasoline ranges.

TABLE 1- PID Readings January 31, 2006										
Depth (ft)	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
0-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-18	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA
18-20	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA
20-22	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA
22-24	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA
24-26	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA
26-28	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA
28-30	NA	NA	NA	NA	NA	NA	0.0	0.0	NA	NA
NA = Not Applicable All concentrations shown in parts per million (ppm)										

**2.3 Groundwater Sampling Technique.** A groundwater sample was collected from soil boring B-7. To facilitate sampling, a piezometer groundwater sampling point was installed at the boring location. The sampling point consisted of one-inch diameter, PVC casing and 0.010-inch machine slotted screen measuring 10 feet in length. The groundwater sample was obtained by inserting disposable polyethylene tubing into the screened interval and extracting with a peristaltic pump.

The groundwater sample was discharged directly from the sampling device into a laboratory-provided, 40 mL vials containing hydrochloric acid (HCl) as a preservative. The sample was labeled, entered into the chain-of-custody form, placed into a cooler filled with ice and maintained at or below 4°C, for transport to ESG Laboratories. The groundwater sample was analyzed for benzene, toluene, ethylbenzene, xylene, and methyl tertiary butyl ether (BTEX/MTBE) using method SW846-8021.

2.4 Geotechnical Analysis. Soil samples for the geotechnical analysis were collected in the same manner as those soil samples selected for laboratory analysis. Representative samples were selected after visual classification for the following index property tests: moisture content (W%), Atterberg limits (Liquid Limit, LL%; Plastic Limit, PL%; and Plasticity Index, PI%), and hand penetrometer readings ( $q_p$ ). Soil boring logs prepared by Earth Exploration are presented in Appendix C with the full text of the geotechnical report.

3.1 Geology/Hydrogeology. The soils encountered and classified during the SI consisted of primarily of sandy clay with some silty clay and silt loam also present from near the surface to a depth of 3.0 to 6.0 feet below ground surface (bgs). Loamy sand and sand are encountered below 3.0 to 6.0 feet bgs to a depth of approximately 22.5 feet bgs. The sand is underlain by clay loam to a depth of approximately 24.5 to 26.5 feet bgs. Loamy sand was encountered below the clay loam to a maximum drilled depth of thirty feet (30) bgs. The soil boring logs are presented in Appendix B.

**3.2 Soil Analytical Results.** No TPH concentrations exceeding the laboratory quantitation limits were observed in the soil samples collected at the Site. Table 2 presents the laboratory analytical results. The soil analytical results are also shown on Figure 3 in Appendix A. The laboratory certificate of analysis and chain of custody are also included as Appendix D.

**3.3 Groundwater Analytical Results.** A grab groundwater sample was collected from boring location, B-7. According to the laboratory results, the sample did not contain detectable concentrations of dissolved-phase petroleum hydrocarbons. The groundwater analytical data are presented in Table 3 below. Figure 3 in Appendix A also presents the groundwater analytical data. The laboratory certificate of analysis and chain of custody are also included as Appendix D.

<b>Sample I.D.</b>	<b>Date</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethylbenzene</b>	<b>Xylenes</b>	<b>MTBE</b>
B-7	1/31/06	<5.0	<5.0	<5.0	<5.0	<5.0
RISC Industrial Default Closure Levels		52	20,000	10,000	20,000	870
RISC Residential Default Closure Levels		5	1,000	700	10,000	40
<p align="center"><b>All concentrations in parts per billion (ppb)</b></p> <p align="center"><b>Shaded cells indicate concentrations exceeding the RISC Industrial Default Closure Level</b></p> <p align="center"><b>Bold numbers indicate concentrations above the IDEM RISC Residential Default Closure Levels</b></p>						

**3.4 Geotechnical Results.** The near-surface soils (sandy and silty clay) typically contained a moisture content ranging from 15 to 23% and had hand penetrometer readings between 0.75 and 2.5 tons per square feet (tsf) indicating a medium to very stiff consistency. The relative density of the underlying sandy soils was classified as generally very loose to medium dense with the SPT blows per foot (bpf) ranging from 2 to 26, with most falling below 15 bpf. The moisture content of the sandy soils (14.7%), when compared with the Atterberg limits performed on the overlying sandy and silty clay soils, indicates that the sandy soils are of low to moderate plasticity. The results of the geotechnical evaluation are summarized in Table 4, below. The complete geotechnical report, prepared by Earth Exploration, containing a more in-depth discussion of the geotechnical results is included as Appendix C.

TABLE 4 Geotechnical Results					
Boring ID (depth in feet)	W (%)	LL (%)	PL (%)	PI (%)	q <sub>p</sub> (tsf)
B-2 (0.3-2.3')	18.7	33	15	18	0.75
B-3 (0.3-2.3')	20.5	NA	NA	NA	1.25
B-4 (0.4-2.4')	23.3	NA	NA	NA	1.25
B-5 (0.4-2.4')	14.8	NA	NA	NA	1.5
B-5 (2.4-4.4')	20.5	NA	NA	NA	1.5
B-6 (0.3-2.3')	17.1	NA	NA	NA	0.75
B-6 (2.3-4.3')	19.8	NA	NA	NA	2.5
B-7 (0.3-2.3')	21.5	NA	NA	NA	1.0
B-7 (22.3-24.3')	16.9	NA	NA	NA	2.5
B-7 (24.3-26.3')	21.0	NA	NA	NA	3.0
B-8 (0.5-2.5')	17.7	NA	NA	NA	1.0
B-8 (22.5-24.5')	20.3	NA	NA	NA	2.25
B-8 (24.5-26.5')	23.1	NA	NA	NA	0.75
B-10 (4.3-6.3')	14.7	NA	NA	NA	0.5
NA = Not Analyzed W = Moisture Content LL = Liquid Limit PL = Plastic Limit PI = Plasticity Index q <sub>p</sub> = Hand Penetrometer Reading % = percent tsf = tons per square foot					



#### **4.0 CONCLUSIONS AND RECOMMENDATIONS**

4.1 Conclusions and Recommendations. AEE's limited SI revealed no detectable concentrations of residual phase petroleum hydrocarbons in the soil in vicinity of the underground storage tank (UST) farm and fuel dispensing islands. There is also no evidence of dissolved-phase petroleum hydrocarbons (above laboratory detection limits) in the groundwater sample collected at the Site. Due to the limited scope of AEE's SI, it remains possible that subsurface contamination could be present (however unlikely) at the Site. If the soils at the Site are disturbed or construction operations commence at this property, there is no apparent human health hazard presented by residual or dissolved-phase petroleum hydrocarbons in the soil or groundwater from the previous gas station operations.

Based on the geotechnical results from the limited number of soil borings, Earth Exploration concludes that the subsurface conditions appear generally conducive for the support of conventional spread foundations, slabs-on-grade, and pavements associated with the proposed construction of a new McDonalds at the Site. Earth Exploration also recommends the removal and disposal of all topsoil, pavement, and structures within the limits of the proposed construction. For a complete discussion of Earth Exploration's conclusions and other specific recommendations, see the complete geotechnical report included in Appendix C.

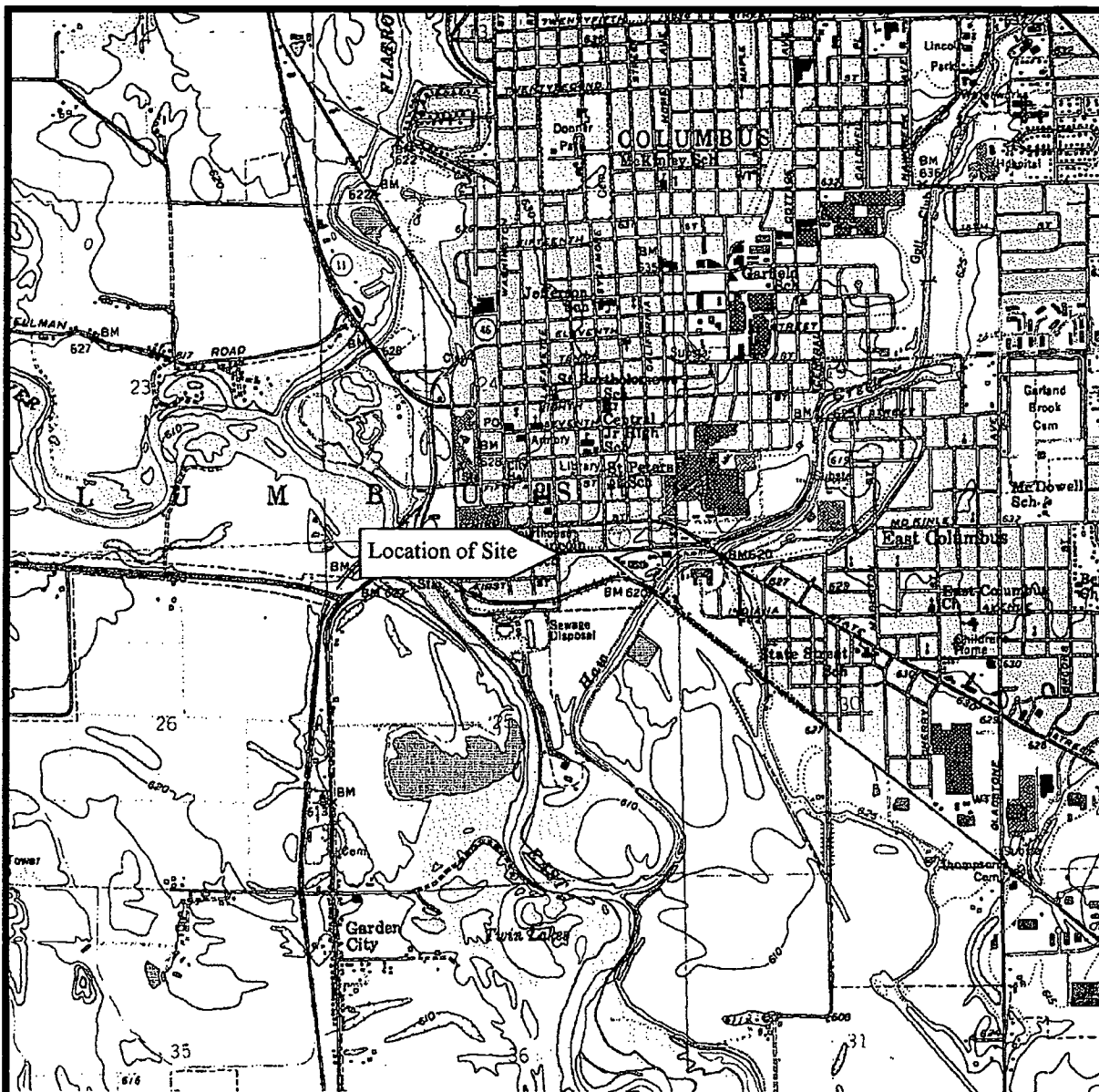
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***APPENDIX A***

**Figure 1: Site Location Map**

**Figure 2: Site Plan**

**Figure 3: Soil and Groundwater Concentration Map**



**AEE** Astbury  
Environmental Engineering, Inc.

# **SITE LOCATION MAP**

**Future McDonalds**  
610 2<sup>nd</sup> Street  
Columbus, Indiana

**Project Number**

AEE 150.06

**Scale**

1"=25,000'

**Project Manager**

F. Nichols

**Date**

02/14/2006

**File No.**

-

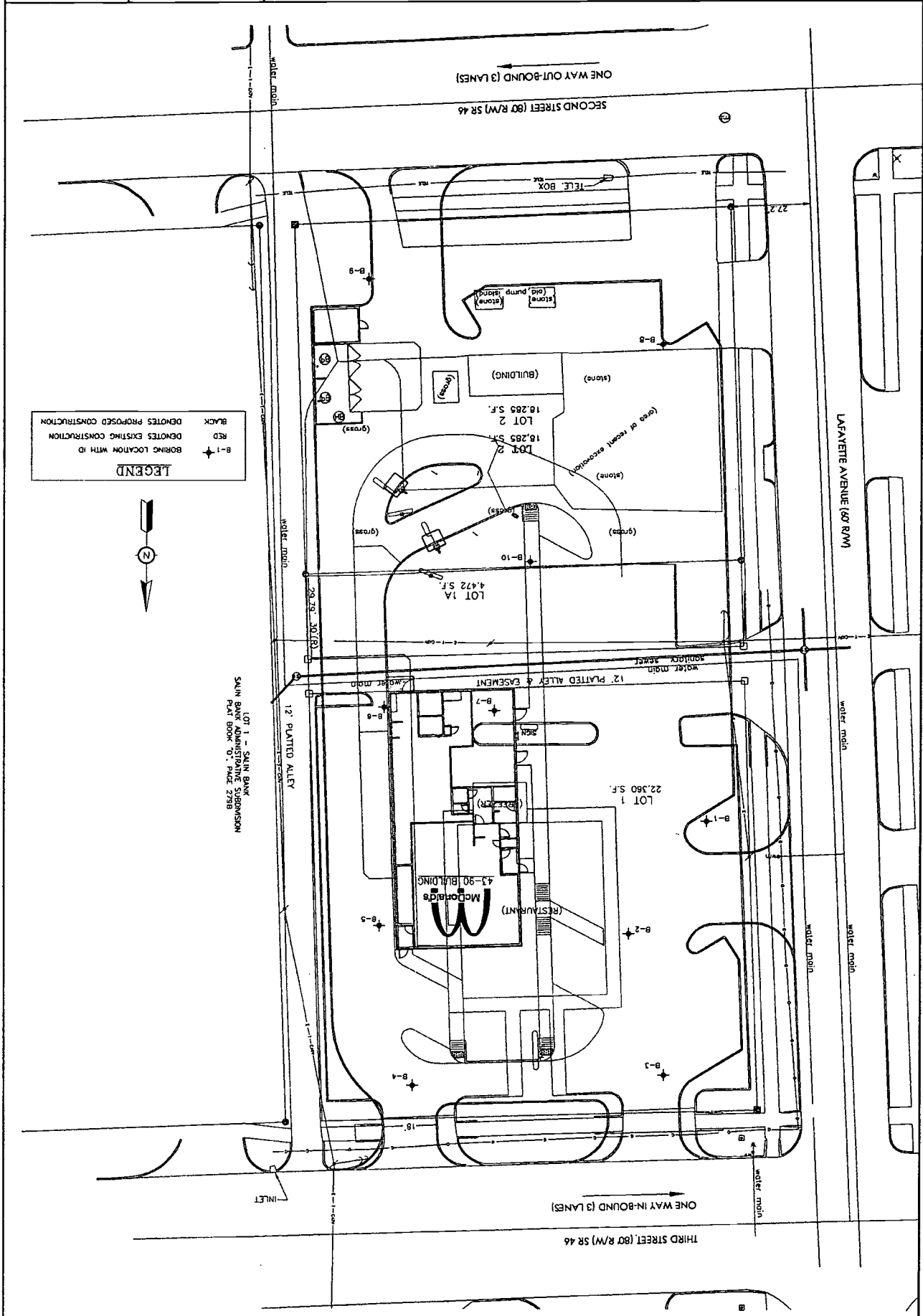
**Figure No.**

1

SUBSURFACE INVESTIGATION  
FUTURE MCDONALD'S RESTAURANT  
610 2ND STREET, COLUMBUS, INDIANA

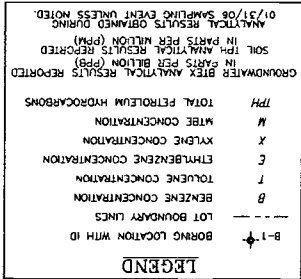
**SITE PLAN**

PROJECT NO.	AEI150.06
PROJECT MANAGER	F. NICHOLS
DATE	02/08/06
FIGURE NO.	2
SCALE	1" = 30'



SUBSURFACE INVESTIGATION  
FUTURE MCDONALDS RESTAURANT  
610 2ND STREET, COLUMBUS, INDIANA

PROJECT NO. AEE150.06	PROJECT MANAGER F. NICHOLS	FILE NO. A150062101	FIGURE NO. 3
SCALE 1" = 30'	DATE 02/08/06		



***APPENDIX B***

**Soil Boring Logs**

# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-1
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/30/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/30/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F. NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
ASPHALT		1	1	25	3,4,2,2	0.0	
GRAVEL AND SAND FILL, WITH SOME BRICK FRAGMENTS		2					
DARK YELLOWISH BROWN (10YR 4/6), MOIST, SOFT, SLIGHTLY PLASTIC, SANDY CLAY		3	2	85	2,2,2,3	0.0	
DARK YELLOWISH BROWN (10YR 4/6), MOIST, SOFT, VERY SLIGHTLY PLASTIC, LOAMY SAND		5	3	75	2,3,3,3	0.0	
YELLOWISH BROWN (10YR 5/4), MOIST, SAND (VERY FINE TO COARSE), WITH GRAVEL (FINE)		7	4	80	2,3,2,2	0.0	
		9	5	80	2,3,2,3	0.0	
		11	6	65	2,1,1,2	0.0	
		13	7	70	6,7,13,14	0.0	
		15	8	75	6,7,7,8	0.0	
BORING DEPTH - 16.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	

# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-2
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/30/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/30/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F.NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
ASPHALT		1	1	65	6,5,3,2	0.0	
GRAVEL AND SAND FILL		2					
BROWN (10YR 4/3), MOIST, FIRM, SILT LOAM		3	2	55	2,1,1,1	0.0	
YELLOWISH BROWN (10YR 5/6), MOIST, SOFT, VERY SLIGHTLY PLASTIC, SANDY CLAY		4					
		5	3	75	2,3,3,3	0.0	
YELLOWISH BROWN (10YR 5/4), SLIGHTLY MOIST, SAND (VERY FINE TO COARSE)		6					
		7	4	75	3,5,7,6	0.0	
		8					
		9	5	75	4,5,5,7	0.0	
		10					
		11	6	80	4,5,6,7	0.0	
		12					
		13	7	90	9,14,14,10	0.0	
		14					
		15	8	85	9,10,11,13	0.0	
BORING DEPTH - 16.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	



# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-3
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/30/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/30/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F.NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
ASPHALT		1	1	80	3,3,4,3	0.0	
GRAVEL AND SAND FILL		2					
BROWN (10YR 4/3). MOIST. FIRM. PLASTIC. SANDY CLAY		3	2	85	3,3,3,2	0.0	
YELLOWISH BROWN (10YR 5/4). MOIST. SOFT. LOAMY SAND		4					
		5	3	75	1,2,2,2	0.0	
		6					
YELLOWISH BROWN (10YR 5/4). SLIGHTLY MOIST. SAND (VERY FINE TO VERY COARSE). WITH TRACE GRAVEL (FINE)		7	4	65	2,3,3,3	0.0	
		8					
		9	5	85	2,3,4,3	0.0	
		10					
		11	6	90	2,4,5,5	0.0	
		12					
		13	7	90	8,9,11,12	0.0	
		14					
		15	8	85	7,8,9,10	0.0	
BORING DEPTH - 16.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	

# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-4
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/30/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/30/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F. NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
ASPHALT		1	1	85	2,2,3,4	0.0	
GRAVEL AND SAND FILL		2					
BROWN (10YR 4/3), SOFT, SLIGHTLY PLASTIC, SANDY CLAY		3	2	65	3,2,2,2	0.0	
		4					
BROWN (10YR 4/3), MOIST, SOFT, LOAMY SAND		5	3	60	2,2,2,2	0.0	
		6					
BROWN (10YR 5/3), SLIGHTLY MOIST, SAND (VERY FINE TO VERY COARSE)		7	4	75	4,7,10,11	0.0	
		8					
		9	5	80	7,8,10,10	0.0	
		10					
		11	6	75	6,7,8,8	0.0	
		12					
		13	7	85	4,7,8,9	0.0	
		14					
		15	8	80	5,6,7,10	0.0	
		16					
BORING DEPTH - 16.0'		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	

# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-5
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/30/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/30/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F. NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
ASPHALT		1	1	95	9,7,6,5	0.0	
GRAVEL AND SAND FILL		2					
BROWN (10YR 4/3), MOIST. FIRM. SILT LOAM, WITH SOME ORGANIC CONTENT		3	2	85	2,3,3,3	0.0	
YELLOWISH BROWN (10YR 5/6), MOIST. SOFT, SLIGHTLY PLASTIC, SANDY CLAY		4					
		5	3	80	1,2,2,1	0.0	
YELLOWISH BROWN (10YR 5/4), SLIGHTLY MOIST, SAND (VERY FINE TO VERY COARSE)		6					
		7	4	70	1,1,1,1	0.0	
		8					
		9	5	85	1,1,1,1	0.0	
		10					
		11	6	80	1,2,1,5	0.0	
		12					
		13	7	75	6,7,8,10	0.0	
		14					
		15	8	85	10,14,11,9	0.0	
BORING DEPTH - 16.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	

# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-6
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/30/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/30/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F.NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
ASPHALT		1	1	85	7,3,3,2	0.0	
GRAVEL AND SAND FILL		2					
BROWN (10YR 4/3), MOIST, FIRM, SLIGHTLY PLASTIC, SANDY CLAY		3	2	75	3,3,4,6	0.0	
		4					
		5	3	70	2,3,2,3	0.0	
		6					
YELLOWISH BROWN (10YR 5/4), SLIGHTLY MOIST, SAND (VERY FINE TO VERY COARSE)		7	4	60	1,1,1,1	0.0	
		8					
		9	5	75	2,3,4,4	0.0	
		10					
		11	6	70	3,4,5,6	0.0	
		12					
		13	7	85	8,10,10,10	0.0	
		14					
		15	8	75	6,8,10,11	0.0	
BORING DEPTH - 16.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	--	FT
GW LEVEL	--	FT
TIME/DATE	--	

# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-7
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/31/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/31/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F.NICHOLS	EQUIPMENT	CME-75

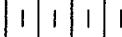


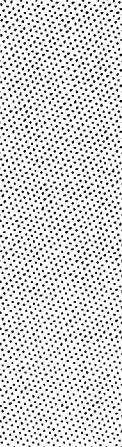


SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
CONCRETE		1	1	75	3,5,3,3	0.0	
GRAVEL AND SAND FILL		2					
BROWN (10YR 4/3), MOIST, SOFT, PLASTIC, SILTY CLAY, WITH TRACE SAND (COARSE TO VERY COARSE)		3	2	85	1,2,2,1	0.0	
BROWN (10YR 4/3), MOIST, SOFT, PLASTIC, SANDY CLAY		4					
		5	3	65	8,10,15,17	0.0	
		6					
BROWN (10YR 5/3), SLIGHTLY MOIST, SAND (VERY FINE TO VERY COARSE), AND GRAVEL (FINE TO MEDIUM)		7	4	70	1,2,1,1	0.0	
		8					
		9	5	60	2,1,1,2	0.0	
		10					
		11	6	75	5,8,9,10	0.0	
		12					
		13	7	80	5,8,10,13	0.0	
		14					
		15	8	85	12,13,13,12	0.0	
		16					
		17	9	95	5,10,12,12	0.0	
		18					
		19	10	85	5,9,9,12	0.0	
		20					
		21	11	75	8,10,12,12	0.0	
		22					
BROWN (10YR 4/3), SLIGHTLY MOIST, STIFF, CLAY LOAM		23	12	85	13,4,8,10	0.0	
		24					
		25	13	80	5,6,6,8	0.0	
		26					
YELLOWISH BROWN (10YR 5/4), MOIST, FIRM, LOAMY SAND		27	14	95	5,7,7,8	0.0	
		28					
		29	15	85	3,4,4,6	0.0	
BORING DEPTH - 30.0'		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	

## SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-8
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/31/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/31/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F.NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
BROWN (10YR 4/3), MOIST. SOFT, SILT LOAM. WITH HIGH ORGANIC CONTENT		1	1	75	1,2,2,2	0.0	
YELLOWISH BROWN (10YR 5/6), MOIST, SOFT, PLASTIC, SANDY CLAY		2	2	70	3,2,3,2	0.0	
YELLOWISH BROWN (10YR 5/6), MOIST, SOFT, LOAMY SAND		3	3	70	2,3,3,3	0.0	
YELLOWISH BROWN (10YR 5/6), SLIGHTLY MOIST, SAND (VERY FINE TO VERY COARSE)		4	4	85	4,3,4,5	0.0	
		5	5	80	5,6,4,9	0.0	
		6	6	85	7,8,10,13	0.0	
		7	7	75	6,6,8,4	0.0	
		8	8	85	4,4,4,5	0.0	
		9	9	70	6,7,8,10	0.0	
		10	10	75	6,4,9,9	0.0	
		11	11	80	6,4,8,9	0.0	
BROWN (10YR 4/3), SLIGHTLY MOIST, STIFF, CLAY LOAM		12	12	75	11,9,11,11	0.0	
BROWN (10YR 5/3), MOIST, SOFT, LOAMY SAND		13	13	85	4,5,5,6	0.0	
		14	14	95	4,4,5,6	0.0	
		15	15	85	6,7,6,6	0.0	
BORING DEPTH - 30.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

### WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	

# SOIL BORING LOG

CLIENT	BUSHMAN REALTY, LLC	BORING NUMBER	B-9
PROJECT NAME	FUTURE MCDONALDS RESTAURANT	JOB NUMBER	AEE150.06
PROJECT LOCATION	610 2ND STREET, COLUMBUS, INDIANA	START DATE	01/31/06
DRILLING COMPANY	EARTH EXPLORATION	COMPLETION DATE	01/31/06
DRILLER	B. JUDY	METHOD	3-1/4" HSA
LOGGED BY/CHECKED BY	J. KINMAN/F.NICHOLS	EQUIPMENT	CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
CONCRETE		1	1	95	2,3,3,3	0.0	
GRAVEL AND SAND FILL		2					
BROWN (10YR 4/3), MOIST. FIRM, SOFT, LOAMY SAND		3	2	90	3,3,3,4	0.0	
		4					
YELLOWISH BROWN (10YR 5/6), MOIST. SOFT, PLASTIC, SANDY CLAY		5	3	95	3,3,4,4	0.0	
		6					
		7	4	85	3,5,4,4	0.0	
YELLOWISH BROWN (10YR 5/4), MOIST. SAND (VERY FINE TO VERY COARSE)		8					
		9	5	80	3,5,6,6	0.0	
		10					
		11	6	95	6,7,4,8	0.0	
		12					
		13	7	90	6,7,7,8	0.0	
		14					
		15	8	95	7,8,8,9	0.0	
BORING DEPTH - 16.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

## WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL	-	FT
GW LEVEL	-	FT
TIME/DATE	-	

## SOIL BORING LOG

CLIENT BUSHMAN REALTY, LLC BORING NUMBER B-10  
PROJECT NAME FUTURE MCDONALDS RESTAURANT JOB NUMBER AEE150.06  
PROJECT LOCATION 610 2ND STREET, COLUMBUS, INDIANA START DATE 01/31/06  
DRILLING COMPANY EARTH EXPLORATION COMPLETION DATE 01/31/06  
DRILLER B. JUDY METHOD 3-1/4" HSA  
LOGGED BY/CHECKED BY J. KINMAN/F. NICHOLS EQUIPMENT CME-75

SAMPLE DESCRIPTION	STRATUM DEPTH	DEPTH FT	SAMPLE NUMBER	RECOVERY %	BLOW COUNTS	PID	REMARKS
YELLOWISH BROWN (10YR 5/4), SLIGHTLY MOIST, SOFT, LOAMY SAND, WITH MEDIUM ORGANIC CONTENT		1	1	75	1,1,2,2	0.0	
		2					
		3	2	60	2,1,1,2	0.0	
		4					
BROWN (10YR 4/3), MOIST, SOFT, SLIGHTLY PLASTIC, SANDY CLAY		5	3	75	2,1,2,3	0.0	
		6					
YELLOWISH BROWN (10YR 5/4), SLIGHTLY MOIST, SOFT, LOAMY SAND		7	4	65	2,1,1,1	0.0	
		8					
BROWN (10YR 5/3), SLIGHTLY MOIST, SAND (VERY FINE TO VERY COARSE), AND GRAVEL (FINE TO MEDIUM)		9	5	75	2,1,1,2	0.0	
		10					
		11	6	70	2,3,3,4	0.0	
		12					
		13	7	75	10,12,12,12	0.0	
		14					
		15	8	85	16,13,14,14	0.0	
BORING DEPTH - 16.0'		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					
		33					
		34					
		35					
		36					
		37					
		38					
		39					

### WATER LEVEL OBSERVATIONS

INITIAL GW LEVEL - FT  
GW LEVEL - FT  
TIME/DATE -



***APPENDIX C***

**Earth Exploration's  
Geotechnical Evaluation (February 10, 2006)**

**GEOTECHNICAL EVALUATION**  
**PROPOSED McDONALD'S RESTAURANT**  
**COLUMBUS, INDIANA**

**Prepared for**

**ASTBURY ENVIRONMENTAL ENGINEERING, INC.**  
**5645 WEST 79<sup>th</sup> STREET**  
**INDIANAPOLIS, INDIANA 43278**

**By**

**EARTH EXPLORATION, INC.**  
**7770 WEST NEW YORK STREET**  
**INDIANAPOLIS, INDIANA 46214-2988**

**February 10, 2006**

*EARTH EXPLORATION*

February 10, 2006

Mr. Fred Nichols  
Astbury Environmental Engineering, Inc.  
5645 West 79th Street  
Indianapolis, IN 43278



7770 West New York Street  
Indianapolis, IN 46214-2988  
317-273-1690 (FAX) 317-273-2250  
4310-C Technology Drive  
South Bend, IN 46628  
574-233-6820 (FAX) 574-233-8242

Re: Geotechnical Evaluation  
Proposed McDonald's Restaurant  
Columbus, Indiana  
EEI Project No.: 1-06-028

Dear Mr. Nichols:

We have completed our geotechnical evaluation for the referenced project. This report presents the results of our subsurface exploratory program and provides geotechnical recommendations for foundation and pavement design and construction. For your information, we are enclosing three copies of our report for your review and distribution. Unless you notify us otherwise, we will retain the soil samples from the exploratory program for 60 days and then discard them.

We appreciate the opportunity to provide our services to you and trust that this information is sufficient for your present needs. Within about a week, we intend to contact you to discuss the contents of this report. However, if you or others should have any questions in the interim, feel free to contact us.

Sincerely,

**EARTH EXPLORATION, INC.**

Darren R. Pleiman, P.E.  
Senior Geotechnical Engineer

Scott J. Ludlow, Ph.D., P.E.  
Principal Engineer

**SUMMARY OF RECOMMENDATIONS<sup>1</sup>**  
**GEOTECHNICAL EVALUATION**  
**PROPOSED McDONALD'S RESTAURANT**  
**COLUMBUS, INDIANA**  
**EET PROJECT NO.: 1-06-028**

We understand that a new McDonald's Restaurant is planned to be constructed on three combined lots (from north to south) between Second and Third Streets east of Lafayette Avenue, in Columbus, Indiana.

**Surface Conditions**

The site is covered primarily with Portland cement and asphaltic concrete parking and drive areas (thicknesses of 3 to 5 in.). There are currently two existing buildings on the combined lots; an existing 50 ft by 60 ft single-story building near the middle of the north lot and a 14 ft by 32 ft single-story building near the middle of the south lot. Portions of the south lot are covered by grassy areas and a crushed aggregate area (indicating recent excavation for underground storage tanks).

**Subsurface Conditions**

The subsurface soil profile was relatively similar and generally consisted of a relatively thin stratum of near-surface cohesive soils overlying granular soils. The soil profile consisted primarily of sandy and silty clays to depths of 2 to 4 ft below the existing ground surface. Underlying the cohesive soils, clayey and silty sand was encountered to depths of about 4 to 6 ft below the existing ground surface. Below these soils, fine to medium sand was encountered to the depths explored. A petroleum odor was evident at Boring SB-7 at a depth of about 20 to 22 ft.

Observations made during the sampling process and at the completion of the field activities generally did not indicate the presence of groundwater within the depths explored, with the exception of Boring SB-7 and SB-8. At these two borings, groundwater was encountered at depths of 26 to 28 ft below the existing ground surface.

**Discussion and Recommendations**

Based on the information obtained at the boring locations, it is our opinion that the subsurface conditions are generally conducive for the support of conventional spread foundations, slabs-on-grade and pavements. We recommend the removal of all topsoil, pavement, and structures within the limits of the proposed construction. During demolition, we recommend that all debris from the two existing above ground buildings (including foundations) and any below-grade structures, be completely removed from the site. Based on information provided by AEE, the pump island and underground storage tanks for the former gas station have been removed.

**Foundation Considerations**

Provided the foundation subgrades are prepared in accordance with Section 6.2 of the report, the naturally-occurring medium to very stiff cohesive soils, medium dense granular soils and/or engineered fill (used to raise site grades) should provide adequate support for spread foundations. In our opinion, these soils are capable of supporting foundations designed for a net allowable soil bearing pressure of 2,500 lbs/sq ft (psf). Sign foundations are anticipated to be established at a depth of about 5 ft or more below finish grade in order to resist lateral and overturning loads and may be designed for a net allowable soil bearing pressure of 3,500 psf.

**Slab-on-Grade**

Based on the proposed construction, we anticipate that the majority of the floor slab will be supported on cohesive soils or engineered fill. Provided the subgrade areas are prepared in accordance with Section 6.2 of the report, we recommend using a modulus of subgrade reaction of 60 lbs/cu in. for design of the floor slab. To provide uniform bearing and minimize the movement of soil moisture into the slab, we recommend that the upper 6 in. of soil immediately below the floor slab consist of a clean, free-draining granular soil (e.g., INDOT No. 23).

**Pavement Considerations**

We anticipate that the pavement subgrade is likely to consist of medium to very stiff cohesive soils (i.e., sandy clay and silty clay), very loose to loose granular soils (clayey sand) and/or engineered fill. In our opinion, the pavement design will be controlled by the cohesive soils which present a relatively poor subgrade condition due to their frost susceptibility and tendency to loose strength when wet. Consequently, we recommend using a California Bearing Ratio (CBR) value of 2.5.

<sup>1</sup> The purpose of this summary is to provide an abbreviated discussion of our recommendations contained in the attached evaluation. In our opinion, the recommendations in this summary are the "most significant" geotechnical issues affecting the proposed construction. For additional discussion and recommendations, our geotechnical report should be consulted and/or Earth Exploration, Inc. should be contacted

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## APPENDICES

- APPENDIX A - IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL ENGINEERING REPORT
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UNIFIED SOIL CLASSIFICATION SYSTEM/GENERAL NOTES  
LOG OF TEST BORING (10)
- APPENDIX D - GENERAL SPECIFICATION NO. 1

**GEOTECHNICAL EVALUATION  
PROPOSED McDONALD'S RESTAURANT  
COLUMBUS, INDIANA  
EEI PROJECT NO.: 1-06-028**

**1. INTRODUCTION**

This report presents the results of our subsurface exploratory program for a proposed McDonald's Restaurant to be located on the southwest side of Columbus, Indiana. This report also provides geotechnical recommendations as related to the subsurface conditions, for foundation design and construction, pavement design, as well as earthwork aspects of site development. The work for this project was formally authorized by Mr. Fred Nichols of Astbury Environmental Engineering, Inc. (AEE) on January 25, 2006, via acceptance of our proposal, (EEI) Proposal No. P1-06-028.

This evaluation provides an assessment of the subsurface conditions revealed by the test borings performed at the locations indicated on an attached plan. The opinions and recommendations expressed in this report are based only on the information obtained at the test boring locations and do not reflect the possible variations in subsurface conditions which may exist between or beyond these locations. Understandably, variations in subsurface conditions can be expected between the locations, and fluctuation of the groundwater level can occur with time. The nature and extent of these variations may not become evident until the course of construction. If variations in the subsurface conditions become apparent during construction, it may be necessary to re-evaluate the conclusions and recommendations provided in this report. Other important information regarding this evaluation is contained in Appendix A.

**2. PROJECT DESCRIPTION**

We understand that a new McDonald's Restaurant is planned to be constructed on three combined lots (from north to south) between Second and Third Streets east of Lafayette Avenue. The two northern lots consisted of an abandoned fast food restaurant and associated parking lot, while the southern lot consisted of an abandoned gas station. Refer

to Drawing No. 1-06-028.B1 in Appendix C for the location and a general layout of the proposed improvements. Based on information provided by Astbury Environmental Engineering, Inc. (AEE), the new building is planned to be located near the middle of the combined parcel with the driveway and parking areas surrounding the building. The restaurant is planned to consist of a single story structure supported by shallow spread foundations and include a slab-on-grade floor system.

Based on our experience with similar projects, structural loads are not anticipated to exceed 3 kips/lin. ft along wall footings and 50 kips at interior column locations. Further details regarding other project elements/requirements such as the anticipated traffic loading and frequency, and construction schedule are not known at this time. In the event that there are changes in the proposed construction, or our assumptions or understanding of the proposed construction are incorrect, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed, and the conclusions are modified or confirmed in writing.

### **3. PURPOSE AND SCOPE OF WORK**

The purpose of this evaluation was to: 1) assess the subsurface soil and groundwater conditions for geotechnical considerations; 2) provide recommendations for foundations, floor slab, and pavement design; and 3) suggest approaches to excavating, fill placement and compaction, and other foundation-related construction practices. An environmental assessment was performed by AEE in conjunction with this evaluation. It should be noted that this evaluation does not address environmental issues related to the soils encountered.

Our scope of work included:

1. Performing ten (10) exploratory test borings to depths of about 16 to 30 ft below the existing ground surface;
2. Performing index property tests including visual soils classification (ASTM D 2488), natural moisture content (ASTM D 2216), Atterberg limits determinations (ASTM D 4318) and calibrated hand penetrometer readings

(which provides an indication of the shear strength characteristics of cohesive-type soils); and

3. Preparing a technical report which includes information on the subsurface conditions and recommendations for geotechnical considerations regarding:
  - a) Site preparation and improvement of in-situ soils for support of foundations, floor slabs, and pavements;
  - b) Suitability of the excavated soils for use as backfill and engineered fill, including recommendations for placement and compaction;
  - c) Suitable foundation type(s), including an allowable bearing pressure, bearing elevations and anticipated settlement;
  - d) Slab-on-grade considerations including an estimated modulus of subgrade reaction;
  - e) Pavement design considerations including an estimated CBR value;
  - f) Seismic site coefficient according to Table 1615.1.1 of the Indiana Building Code (2003 edition);
  - g) Potential construction problems due to subsurface conditions (e.g., instability of temporary excavations/earth slopes, inadequate surface water drainage and dewatering, and the effect of weather/construction equipment on the soils).

#### **4. FIELD EXPLORATION AND LABORATORY TESTING**

##### **4.1 General**

Subsurface conditions within the project site were explored by performing eight test borings to a depth of 16 and two test borings to a depth of 30 ft below existing ground surface at the locations shown on the Test Boring Location Plan (Drawing No. 1-06-028.B1) in Appendix C. The number, location and depth of the borings were selected by AEE in conjunction with EEI. Prior to exploratory activities, the borings were located in the field by AEE and topographic information was not provided.



## **4.2 Exploratory Methods and Sample Collection**

Exploratory field activities were performed by EEI on January 31, 2006, using hollow stem augers to advance the boreholes. Samples of the soil strata were obtained at continuous intervals (i.e., every 24-in.) to the depths explored with a split-spoon sampler using Standard Penetration Test (SPT) procedures (ASTM D 1586). Following the completion of the exploratory activities, final water level readings were obtained, and each borehole was backfilled with auger cuttings, and a bentonite chip plug was placed near the surface. Further details of the drilling and sampling procedures are provided in Appendix B.

## **4.3 Laboratory Observations and Testing**

Following the field activities, the soil samples were visually classified by an EEI engineering technician and reviewed by an EEI geotechnical engineer. Final boring logs were then prepared and are included in Appendix C. After visually classifying the soils, representative samples were selected for index property testing. These tests included: moisture content (W%), Atterberg limits (LL%, PL%, PI%) and hand penetrometer readings ( $q_p$ ; which provides an indication of the shear strength characteristics of cohesive-type soils). The results of the tests are provided on the boring logs in Appendix C. Soil classifications on the boring logs are according to the Unified Soil Classification System. Further details of the classification system are also provided in Appendix C. The final boring logs represent our interpretation of the individual samples and field logs. Stratification lines on the boring logs represent the approximate boundary between soil types; although the transitions may actually be gradual.

# **5. SITE CONDITIONS**

## **5.1 Surface Characteristics**

Based on observations by AEE and EEI field personnel, the site is covered primarily with Portland cement and asphaltic concrete parking and drive areas. There are currently two existing buildings on the combined lots; an existing 50 ft by 60 ft single-story building near the middle of the north lot and a 14 ft by 32 ft single-story building near the middle of the

south lot. Portions of the south lot are covered by grassy areas and a crushed aggregate area (indicating recent excavation for underground storage tanks).

## 5.2 Soil Conditions

Based on information at the test boring locations, the subsurface soil profile was relatively similar and generally consisted of a relatively thin stratum of near-surface cohesive soils overlying granular soils. The surface conditions typically consisted of Portland cement and asphaltic concrete with thicknesses of about 3 to 5 in. At Boring SB-8, approximately 6 in. of topsoil was encountered at the ground surface. The soil profile consisted primarily of sandy and silty clays to depths of 2 to 4 ft below the existing ground surface. Underlying the cohesive soils, clayey and silty sand was encountered to depths of about 4 to 6 ft below the existing ground surface. Below these soils, fine to medium sand was encountered to the depths explored. At Borings SB-7 and SB-8, sandy clay was encountered from about 22 to 26 ft below the existing ground surface. Soil fill consisting of fine to medium sand and clayey sand were also encountered at Borings SB-1 and SB-10 to depths of about 4 to 10 ft below existing ground surface. A petroleum odor was evident at Boring SB-7 (sample no. 11) at a depth of about 20 to 22 ft. No additional laboratory testing, other than visual classification, was performed on the petroleum impacted sample.

Based on our observations, the consistency of the near-surface sandy and silty clay was typically medium to very stiff with hand penetrometer readings generally ranging from  $\frac{3}{4}$  to  $2\frac{1}{2}$  tons/sq ft (tsf). The moisture content of these soils was generally on the order of 15 to 23 percent. The consistency of the deeper sandy clay was typically medium to very stiff with hand penetrometer readings generally ranging from  $\frac{3}{4}$  to 3 ton/sq ft (tsf), and moisture contents were on the order of 17 to 23 percent.

The relative density of the granular soils was generally very loose to medium dense with SPT N-values ranging from 2 to 26 blows/ft (bpf), with the majority of those less than 15 bpf. Comparing Atterberg limits performed on a near-surface cohesive soil sample to the

moisture contents, it appears that these soils are of low to moderate plasticity. A grain size analysis of a granular soil sample indicated a P-200 (percent passing the No. 200 sieve) of 10.3 percent.

### **5.3 Groundwater Conditions**

Groundwater level observations made during and after the completion of the exploratory activities are shown at the bottom of the logs. Observations made during the sampling process and at the completion of the field activities generally did not indicate the presence of groundwater within the depths explored, with the exception of Boring SB-7 and SB-8. At these two borings, groundwater was encountered at depths of 26 to 28 ft below the existing ground surface. Given the predominantly granular subsurface profile encountered at the borings, the actual "static" groundwater level, in our opinion, appears to be at a depth of about 26 to 28 ft below the existing ground surface. It should also be recognized that groundwater levels either static or perched can fluctuate due to changes in precipitation, infiltration, surface run-off, construction activities, and other hydrogeological factors.

## **6. DISCUSSION AND RECOMMENDATIONS**

### **6.1 General**

Based on the information obtained at the boring locations, it is our opinion that the subsurface conditions are generally conducive for the support of conventional spread foundations, slabs-on-grade and pavements. In addition, considering the moisture-sensitive nature of the near-surface cohesive soils, proper site preparation is essential in order to provide adequate support of these elements. It should be noted that if the site is not properly prepared, stabilization of the subgrade may be necessary. Recommendations related to these and other important aspects of design and construction are provided in the following paragraphs. Furthermore, we recommend that EEI be present during all phases of site preparation and earthwork construction activities to confirm that foundation and pavement subgrades are prepared in accordance with the recommendations contained herein.

## **6.2 Site Preparation and Earthwork Activities**

### **6.2.1 Topsoil Removal and Subgrade Stabilization**

As an initial step in preparing the site, we recommend the removal of all topsoil and pavement within the limits of the proposed construction. The removal activities should extend a minimum of 5 ft beyond the limits of the proposed construction. Consideration could be given to leaving existing pavements, not in the proposed building area, in place to help protect the near-surface cohesive soils from excessive construction traffic. Also, to minimize the risk of softening of the near-surface soils especially when exposed to excessive moisture, we recommend that proper site drainage be provided at the time of construction. If consideration is given to removing the topsoil and pavement over the entire site, stabilization of the subgrade may be required to minimize the risk of softening of the soils during construction and provide adequate support of foundation and pavement elements depending on weather conditions at the time of construction.

During demolition, we recommend that all debris from the two existing above ground buildings (including foundations) and any below-grade structures (e.g., grease pit for the restaurant, and old storm and sanitary sewers), be completely removed from the site. Abandoned utilities should be completely removed and the subsequent excavation backfilled with compacted engineered fill. Based on information provided by AEE, the pump island and underground storage tanks for the former gas station have been removed.

### **6.2.2 Subgrade Preparation**

Following the above-mentioned activities, we recommend that the exposed cohesive subgrade soils be proof-rolled with a heavy rubber-tired vehicle. The purpose of proof-rolling is to provide a first-order evaluation of how the subgrade is anticipated to react to construction traffic (i.e., during fill placement), and gain an additional understanding of how the foundations, floor slab and pavement will behave following construction. Where granular soils are exposed, we recommend that they be thoroughly compacted with a vibratory compactor in order to improve the subgrade conditions. We also recommend that

proof-rolling and compaction activities be observed by an EEI geotechnical engineer or engineering technician to evaluate the presence of any soft/loose areas of the subgrades. Where soft/loose areas are delineated, we recommend that they be stabilized or undercut and replaced with engineered fill. The need/use of a particular stabilization technique should be based on the field conditions at the time of construction. In addition, where very loose to loose granular soils are encountered, such as those indicated on the attached boring logs (at the foundation or pavement subgrade) or loosened by the removal activities, we recommend that the subgrade be compacted to 95 percent of the modified Proctor density (ASTM D 1557). Considering that the observed near-surface soils contain an appreciable amount of soil fines and are susceptible to "pumping" as well as sensitive to changes in moisture, care should also be taken to minimize the amount of disturbance.

In our opinion, stabilization of the cohesive subgrade (including the clayey sand) may consist of several alternatives including continuous aerating (i.e., to reduce the soil moisture content) and recompaction, the use of lime/kiln dust, a large-sized aggregate (e.g., a No. 2 stone), or a combination of smaller sized aggregate (e.g., a No. 53 stone) and a high-tensile modulus biaxial geogrid. If aeration is performed, this process should include a continuous discing process to breakdown larger soil particles and expose a greater soil surface area. Refer to Indiana Department of Transportation [INDOT] Standard Specifications, 2006, Section 904.02[e] for gradation sizes of the aggregates noted above. For disturbed or loose granular soils, thorough compaction with a vibratory compactor should be sufficient to stabilize granular subgrades. Additionally, once the earthwork specification has been prepared, it is recommended that EEI be retained to review the specification and provide comments on how to modify it, if necessary, to avoid potential costly change orders during construction. Depending on when construction takes place, it may be prudent to include line items for the previously mentioned stabilization techniques within the bid. Although the type of technique can be identified prior to construction with relative accuracy (i.e., for execution and performance), often the prediction of the location/area to be stabilized is less accurate. Therefore, we also recommend that EEI be

present during construction to observe the subgrade conditions prior to construction of foundation and pavement elements and provide suggestions to the owner on how to stabilize an area, if necessary. Additionally, the need and use of these techniques is highly dependent on when construction takes place and how the specification is written.

### **6.2.3 Engineered Fill Placement and Compaction**

Following proof-rolling, fill placement may then proceed where needed to establish foundation, floor slab, and pavement grades. We understand that the new restaurant and associated parking and drive areas are planned to be established at or near the existing grade and that minimal fill will be required. Where raising the grade will be necessary, we recommend the use of engineered fill. In our opinion, the on-site soils, with the exception of topsoil, are suitable for reuse as engineered fill. However, it should be noted that the near-surface cohesive soils (encountered at most of the borings) and the clayey sand (observed near the surface at several borings) are moisture sensitive and will require moisture conditioning (as discussed in Section 6.2.2) prior to obtaining adequate compaction. Depending on the weather/moisture conditions at the time of construction, it may be extremely difficult to achieve adequate compaction. If conditions are cold and/or wet at the time of construction, consideration should be given to the use of an imported granular soil with less than 12 percent fines. The fine to medium sand tested at Boring SB-9 and encountered at several other borings, had a P-200 (percent passing the No. 200 sieve) of 10.3 percent.

We also recommend that engineered fill be placed in horizontal lifts not exceeding 8 in. in loose lift thickness and be compacted to 95 percent of the modified Proctor density (ASTM D 1557). It should also be noted that the acceptable thickness of loose lifts of engineered fill and/or the number of passes required by the compaction equipment to achieve compaction to the density recommended in this report will be a function of the type of compaction equipment and techniques used, the soil type, as well as proper control of the soil moisture content and the season in which construction takes place. We

recommend that EEI be present during any fill placement to perform periodic field density tests to determine the adequacy of the compactive effort. Additional recommendations regarding compacted fill are provided in Appendix D.

### 6.3 Foundation Considerations

Provided the foundation subgrades are prepared in accordance with Section 6.2, the naturally-occurring medium to very stiff cohesive soils, medium dense granular soils and/or engineered fill (used to raise site grades) should provide adequate support for spread foundations. In our opinion, these soils are capable of supporting foundations designed for a net allowable soil bearing pressure of 2,500 lbs/sq ft (psf). Sign foundations are anticipated to be established at a depth of about 5 ft or more below finish grade in order to resist lateral and overturning loads. Based on the deeper embedment, sign foundations are anticipated to be established in very loose to medium dense granular soils. In our opinion, sign foundations established at a depth of 5 ft or more may be designed for a net allowable soil bearing pressure of 3,500 psf.

The lateral loads on a shallow spread footing will be resisted by the base friction and passive resistance. For a spread footing established at least 5 ft below the finished ground surface, the following soil parameters may be used for design:

<u>Soil Parameters</u>	<u>Granular Soils</u>
Ultimate Base Friction Coefficient ( $\tan \delta$ )	0.35
Passive Resistance, Soil Backfill (FS=2)	150 psf/ft
Soil Backfill Unit Weight	110 pcf

Where soft/loose soils are encountered during foundation excavation which will not improve with repeated compaction, we recommend that they be removed and replaced with engineered fill consisting of granular soils. In this case, the excavation, in our opinion, should be widened beyond the footing width a distance equal to the depth of undercut to

provide for a uniform stress distribution. Lean concrete could also be considered in lieu of granular soil fill in foundation undercut areas. In this case, widening of the excavation would not be required.

To minimize the potential for a localized shear failure, we also recommend that column and wall foundations be a minimum width of 30 in. and 18 in., respectively. In addition, we recommend that soil used as backfill of foundations be placed in an engineered manner as previously discussed. For frost protection, we recommend that exterior foundations be established a minimum depth of 3 ft below the finished exterior grade. Based on these recommendations, total and differential settlements are not anticipated to exceed 1 in. and ½ in., respectively.

#### **6.4 Seismic Considerations**

In general, the soil profile within the depths explored consisted of medium to very stiff cohesive soils and very loose to medium dense granular soils. In addition, from information published in a reference titled "*Map of Indiana Showing Thickness of Unconsolidated Deposits*" (Department of Natural Resources), bedrock is anticipated to be approximately 0 to 100 ft below the existing ground surface. Therefore, based on the soil descriptions provided in Table 1615.1.1 of the 2003 Indiana Building Code (IBC), it is our opinion that the conditions encountered at the project site most-closely resemble Site Class E. Accordingly, we recommend that the earthquake loads be determined using Site Class E. (Note that the site class definitions are based on average properties for a depth of 100 ft and our exploratory activities only extended to a depth of 30 ft.)

#### **6.5 Slab-on-Grade**

Based on the proposed construction, we anticipate that the majority of the floor slab will be supported on cohesive soils or engineered fill. Provided the subgrade areas are prepared in accordance with Section 6.2, we recommend using a modulus of subgrade reaction of 60 lbs/cu in. for design of the floor slab. To provide uniform bearing and minimize the



movement of soil moisture into the slab, we recommend that the upper 6 in. of soil immediately below the floor slab consist of a clean, free-draining granular soil (e.g., INDOT No. 23).

Intrusion of subgrade moisture through the floor slab can occur through fluid or vapor phase as the result of hydraulic, thermal or humidity gradients. To reduce the impact of this subsurface moisture and the potential from other moisture sources, a common practice is to place a vapor barrier under the slab. This is particularly true where moisture sensitive floor coverings are anticipated. Depending on the details of the vapor barrier design, the system may not be completely effective in preventing floor slab moisture problems.

It must be understood that factors other than a vapor barrier can significantly influence flooring problems. These other factors include quality of concrete, interior ventilation, type of flooring adhesive, concrete curing time, and sources of moisture from plumbing leaks, landscaping or surface drainage. It should be understood that we are not floor moisture proofing experts. The building designers should consider all available measures for slab moisture protection. We recommend consulting with the floor covering manufacturer, installer or their consultant prior to installation of the floor coverings regarding the most appropriate methods for controlling subgrade moisture intrusion.

## **6.6 Pavement Design Considerations**

We anticipate that the pavement subgrade is likely to consist of medium to very stiff cohesive soils (i.e., sandy clay and silty clay), very loose to loose granular soils (clayey sand) and/or engineered fill. Provided the pavement subgrade is prepared in accordance with Section 6.2, the existing soils or engineered fill should provide adequate support for the pavement. In our opinion, the pavement design will be controlled by the cohesive soils. These soils are considered to present a relatively poor subgrade condition due to their frost susceptibility and tendency to loose strength when wet. Traffic information was not

available at the time this report was prepared. Consequently, we recommend using a California Bearing Ratio (CBR) value of 2.5.

Where concrete pavement is used, the concrete should be properly reinforced and jointed and should have a minimum 28 day compressive strength of 4,000 psi. In general, particular attention to subgrade preparation, control of surface and subsurface drainage and periodic preventive maintenance are critical to the design life of pavement. In our opinion, the final pavement design should also incorporate adequate surface and subsurface drainage to minimize the risk of subgrade softening (i.e., causing loss of support).

#### **6.7 Construction Considerations**

Based on the information obtained at the boring locations, shallow excavations are not anticipated to encounter groundwater. If infiltrating water (from precipitation or perched seams) is encountered during foundation excavations, it can likely be removed by using a pump and filtered sump possibly in combination with collection trenches.

In general, shallow excavations are anticipated to expose both cohesive and granular soils. All excavations should conform with Occupational Safety and Health Administration (OSHA) requirements (i.e., 29 CFR Part 1926). The Contractor is solely responsible for constructing and maintaining stable excavations. Additionally, soil should not be stockpiled immediately adjacent to the top of the excavation. In our opinion, the cohesive soil encountered on this project may be classified as Type A, B, or C depending on their strength characteristics and the granular soils may be classified as Type C (according to OSHA), and should be treated accordingly.

Because clayey subgrade soils tend to soften when exposed to water, surface run-off should be diverted from excavations, and ponding of water from rainfall should be minimized. In addition, due to the clayey nature of the soils, construction traffic on floor slab

and pavement subgrades, should be minimized. If areas of the subgrade become disturbed or begin to "pump," they should be stabilized using the methods in Section 6.2. To minimize general deterioration of the subgrade soils, appropriate construction sequencing of earthwork and concrete placement are recommended.

## 7. CONCLUDING REMARKS

We recommend that EEI be provided the opportunity to review the final design and project specifications to confirm that earthwork and foundation requirements have been properly interpreted and implemented in the design and specifications. We recommend that EEI also be retained to observe the subgrade conditions during construction. This will allow us to verify that construction proceeds in compliance with the design concepts, specifications and recommendations. It will also allow design changes to be made more expediently in the event that subsurface conditions differ from those anticipated.

This evaluation has been conducted in accordance with generally accepted soil and foundation engineering practices. The conclusions and recommendations contained in this report are based on the subsurface information from the few, widely-spaced borings performed for this project. It is important to recognize that subsurface conditions can vary over relatively short distances. If unanticipated conditions are encountered during construction, we recommend that EEI be retained to re-evaluate the conclusions and recommendations contained in this report.

## APPENDIX A

### IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL ENGINEERING REPORT

# Important Information About Your Geotechnical Engineering Report

*Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.*

*The following information is provided to help you manage your risks.*

## **Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects**

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. *No one except you* should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one—not even you—*should apply the report for any purpose or project except the one originally contemplated.

## **Read the full report**

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

## **A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors**

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, *do not rely on a geotechnical engineering report* that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when

it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,

- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

## **Subsurface Conditions Can Change**

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

## **Most Geotechnical Findings Are Professional Opinions**

Site exploration identifies subsurface conditions *only* at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an *opinion* about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

### **A Report's Recommendations Are *Not* Final**

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final*, because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

### **A Geotechnical Engineering Report Is Subject To Misinterpretation**

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

### **Do Not Redraw the Engineer's Logs**

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

### **Give Contractors a Complete Report and Guidance**

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the

report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time to perform additional study.* Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

### **Read Responsibility Provisions Closely**

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce such risks, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations", many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

### **Geoenvironmental Concerns Are Not Covered**

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

### **Rely on Your Geotechnical Engineer for Additional Assistance**

Membership in ASFE exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

# **ASFE**

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## APPENDIX B

### FIELD METHODS FOR EXPLORING AND SAMPLING SOILS AND ROCK

## FIELD METHODS FOR EXPLORING AND SAMPLING SOILS AND ROCK

### A. Boring Procedures Between Samples

The boring is extended downward, between samples, by a hollow stem auger, continuous flight auger, driven and washed-out casing, or rotary boring with drilling mud or water.

### B. Standard Penetration Test and Split-Barrel Sampling of Soils (ASTM Designation: D 1586)

This method consists of driving a 2-in. outside diameter split-barrel sampler using a 140-lb weight falling freely through a distance of 30 in. The sampler is first seated 6 in. into the material to be sampled and then driven 12 in. The number of blows required to drive the sampler the final 12 in. is recorded on the Log of Test Boring and known as the Standard Penetration Resistance or N-value. Recovered samples are first classified as to texture by the field personnel. Later in the laboratory, the field classification is reviewed by a geotechnical engineer who observes each sample.

### C. Thin-walled Tube Sampling of Soils (ASTM Designation: D 1587)

This method consists of hydraulically pushing a 2-in. or 3-in. outside diameter thin wall tube into the soil, usually cohesive types. Relatively undisturbed samples are recovered.

### D. Soil Investigation and Sampling by Auger Borings (ASTM Designation: D 1452)

This method consists of augering a hole and removing representative soil samples from the auger flight or bucket at 5-ft intervals or with each change in the substrata. Relatively disturbed samples are obtained and its use is therefore limited to situations where it is satisfactory to determine approximate subsurface profile.

### E. Diamond Core Drilling for Site Investigation (ASTM Designation: D 2113)

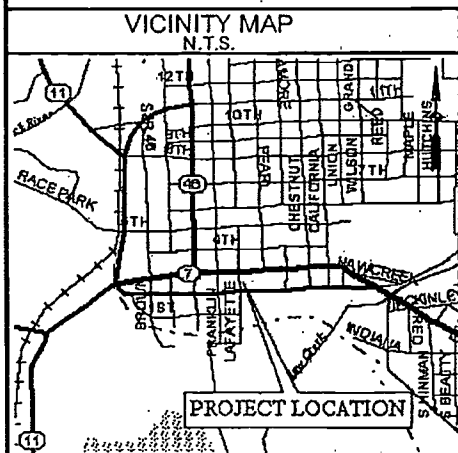
This method consists of advancing a hole in rock or other hard strata by rotating downward a single tube or double tube core barrel equipped with a cutting bit. Diamond, tungsten carbide, or other cutting agents may be used for the bit. Wash water is used to remove the cuttings. Normally, a 3-in. outside diameter by 2-in. inside diameter coring bit is used unless otherwise noted. The rock or hard material recovered within the core barrel is examined in the field and laboratory. Cores are stored in partitioned boxes and the length of recovered material is expressed as a percentage of the actual distance penetrated.

\* American Society for Testing and Materials, Philadelphia, PA



## APPENDIX C

TEST BORING LOCATION PLAN (Drawing No. 1-06-028.B1)  
UNIFIED SOIL CLASSIFICATION SYSTEM/GENERAL NOTES  
LOG OF TEST BORING (10)



LEGEND

B-1



Test Boring Location  
and Designation

LAN

1. Base n  
on Feb
2. Vicinity
3. Refer t  
the tes, Inc.
4. Boring
5. Boring
6. Existin

PROJECT ENGINEER:

DRP

APPROVED BY:

SJL

DRAWN BY:

JBF

DATE AND TIME:

2/09/06 5:28:13

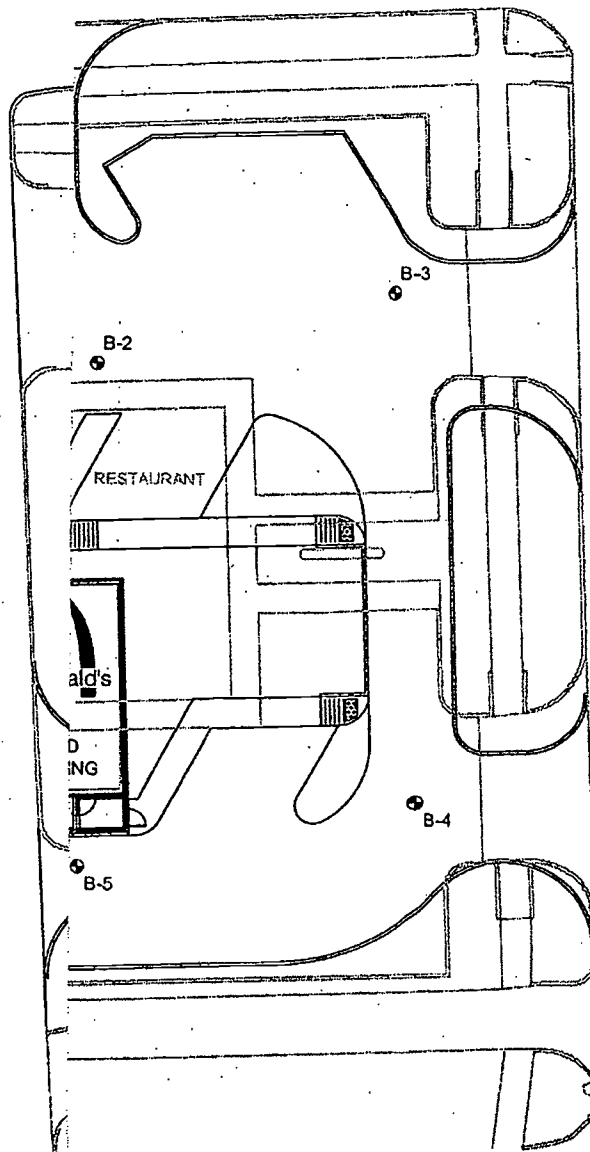
DRAWING NUMBER:

1-06-028.B1



SECOND STREET

THIRD STREET





# UNIFIED SOIL CLASSIFICATION SYSTEM / GENERAL NOTES

FINE-GRAINED SOILS		COARSE-GRAINED SOILS		RELATIVE PROPORTIONS		ORGANIC CONTENT BY COMBUSTION METHOD	
CONSISTENCY	UNCONFINED STRENGTH (tsf)	RELATIVE DENSITY	N-VALUE* (Blows/ft)	TERM	DEFINING RANGE BY % OF WEIGHT	SOIL DESCRIPTION	LOI
Very Soft	<0.25	Very Loose	0 - 4	Trace	0 - 5	Trace Organic Matter	0 - 5%
Soft	0.25 - 0.5	Loose	4 - 10	Little	5 - 12	Little Organic Matter	5 - 12%
Medium	0.5 - 1.0	Medium Dense	10 - 30	Some	12 - 35	Organic Silt/Clay	12 - 35%
Stiff	1.0 - 2.0	Dense	30 - 50	And	35 - 50	Sedimentary Peat	35 - 50%
Very Stiff	2.0 - 4.0	Very Dense	50+			Fibrous and Woody Peat	50%±
Hard	>4.0						

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART					
MAJOR DIVISIONS			SYMBOLS & DESCRIPTIONS		
COARSE-GRAINED SOILS  More than 50% of material coarser than No. 200 sieve	GRAVEL AND GRAVELLY SOILS  More than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS  Little or no fines	GW	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES  Appreciable amount of fines	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES	
	SAND AND SANDY SOILS  More than 50% of coarse fraction passing No. 4 sieve	CLEAN SANDS  Little or no fines	SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
			SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
		SANDS WITH FINES  Appreciable amount of fines	SM	SILTY SANDS, SAND-SILT MIXTURES	
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE-GRAINED SOILS  More than 50% of material finer than No. 200 sieve	SILTS AND CLAYS  LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SAND OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS  LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILT	
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
		HIGHLY ORGANIC SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT
	NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS				

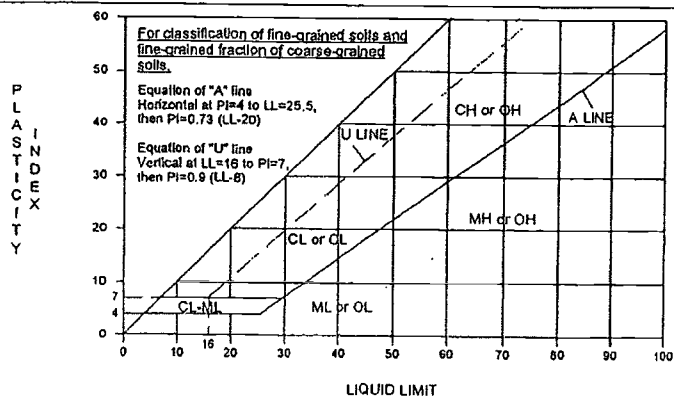
NOTE: DUAL SYMBOLS USED FOR BORDERLINE CLASSIFICATIONS

## GRAIN SIZE TERMINOLOGY

SOIL FRACTION	PARTICLE SIZE	US STANDARD SIEVE SIZE
Boulders	Larger than 12-in.	Larger than 12-in.
Cobbles	3 to 12-in.	3 to 12-in.
Gravel	Coarse	3/4 to 3-in.
	Fine	#4 to 3/4-in.
Sand	Coarse	2.00 to 4.75 mm
	Med	0.425 to 2.00 mm
	Fine	0.075 to 0.425 mm
Silt	0.005 to 0.075 mm	Smaller than #200
Clay	Smaller than 0.005 mm	Smaller than #200

Plasticity characteristics differentiate between silt and clay.

## PLASTICITY CHART



## EXPLORATORY SAMPLING ABBREVIATIONS

AS - Auger Sample	PID - Photo-Ionization Detector
BF - Backfilled Upon Completion	PMT - Borehole Pressuremeter Test
BS - Bag Sample	PT - 3-in. O.D. Piston Sample
C - Casing: Size 2½-in., NW; 4-in., HW	PTS - Peat Sample
COA - Clean-Out Auger	RB - Rock Bit
CS - Continuous Sampler	RC - Rock Core
CW - Clear Water	REC - Recovery
DC - Driven Casing	RQD - Rock Quality Designation
DM - Drilling Mud	RS - Rock Sounding
FA - Flight Auger	S - Soil Sounding
FT - Fish Tail	SS - 2-in. O.D. Split-Spoon Sample
HA - Hand Auger	ST - Thin-Walled Tube Sample
HSA - Hollow Stem Auger	VS - Vane Shear Test
NW - No Water Encountered	WPT - Water Pressure Test

## LABORATORY TEST ABBREVIATIONS

qp - Hand Penetrometer Reading, tsf
qu - Unconfined Compressive Strength, tsf
W - Moisture Content, %
LL - Liquid Limit, %
PL - Plastic Limit, %
PI - Plasticity Index, %
SL - Shrinkage Limit, %
LOI - Loss on Ignition, %
γ <sub>d</sub> - Dry Unit Weight, pcf
pH - Hydrogen-Ion Concentration
P <sub>200</sub> - Percent Passing a No. 200 Sieve

\*The penetration resistance, N, is the summation of the number of blows required to effect two successive 6" penetrations of the 2" O.D. split-spoon sampler. The sampler is driven with a 140 lb weight falling 30" and is seated to a depth of 6" before commencing the standard penetration test.

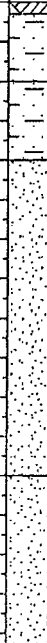


## LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
Location **Columbus, Indiana**  
Client **Astbury Environmental Engineering, Inc.**  
7770 West New York Street - Indianapolis, Indiana 46214  
317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-1**  
Elevation **---**  
Datum **---**  
EEI Proj. No. **1-06-028**  
Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE				DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES								
No.	Type	Rec %	Blow Counts		Depth ft	$q_p$ tsf	$q_u$ tsf	$\gamma_d$ pcf	W %	LL %	PL %	PI %	
SS-1	X	35	3-3-2-4		PORTLAND CEMENT CONCRETE, (3 in.)								
SS-2	X	65	2-2-2-3		SC-SM, CLAYEY SAND, little to some gravel, loose, moist, brown, with crushed stone and bricks (fill)								
SS-3	X	60	2-3-3-3		SC, CLAYEY SAND, trace gravel, very loose, moist, brown								
SS-4	X	65	2-3-2-2		SP, FINE TO MEDIUM SAND, little to some gravel, loose to very loose, moist, brown								
SS-5	X	65	2-3-2-3										
SS-6	X	70	2-1-1-2										
SS-7	X	90	6-7-13-14										
SS-8	X	75	6-7-7-8		SW, SAND, some gravel, medium dense, moist, brown								
End of Boring at 16.3 ft													

### WATER LEVEL OBSERVATIONS

Depth ft	While Drilling	Upon Completion	After Drilling
To Water	NW	NW	BF
To Cave-in		9	

### GENERAL NOTES

Start 1/30/06 End 1/30/06 Rig CME 75  
Drilling Method 3/4" I.D. HSA Truck  
Remarks Backfilled with auger cuttings, bentonite chips and concrete patch at surface.

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.




# LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
 Location **Columbus, Indiana**  
 Client **Astbury Environmental Engineering, Inc.**  
 7770 West New York Street - Indianapolis, Indiana 46214  
 317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-2**  
 Elevation **---**  
 Datum **---**  
 EEI Proj. No. **1-06-028**  
 Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
 Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE					DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES							
No.	Type	Rec %	Blow Counts	Depth ft		q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>d</sub> pcf	W %	LL %	PL %	PI %	
SS-1	X	75	6-5-3-2		ASPHALTIC CONCRETE, (4 in.)								
					GRANULAR SUBBASE, (crushed stone)								
					CL, SANDY CLAY, trace gravel, medium, brown	0.75			18.7	33	15	18	
SS-2	X	505	2-1-1-1		SM, SILTY SAND, trace gravel, very loose, moist, brown								
SS-3	X	75	2-3-3-3		SP, FINE TO MEDIUM SAND, trace gravel, loose to medium dense, moist, brown								
SS-4	X	70	3-5-7-6										
SS-5	X	75	4-5-5-7										
SS-6	X	80	4-5-6-7										
SS-7	X	90	9-14-14-10	SW, SAND, some gravel, medium dense, moist, brown									
SS-8	X	90	9-10-11-13										
End of Boring at 16.3 ft													

## WATER LEVEL OBSERVATIONS

Depth ft ☐ While Drilling ☐ Upon Completion ☐ After Drilling  
 To Water **NW** **NW** **BF**  
 To Cave-in **7½**

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

## GENERAL NOTES

Start **1/30/06** End **1/30/06** Rig **CME 75**  
 Drilling Method **3¼" I.D. HSA** Truck  
 Remarks **Backfilled with auger cuttings, bentonite chips and concrete patch at surface.**




## LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
Location **Columbus, Indiana**  
Client **Astbury Environmental Engineering, Inc.**  
7770 West New York Street - Indianapolis, Indiana 46214  
317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-3**  
Elevation **---**  
Datum **---**  
EEI Proj. No. **1-06-028**  
Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE					DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES							
No.	Type	Rec %	Blow Counts	Depth ft		q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>s</sub> pcf	W %	LL %	PL %	PI %	
SS-1	X	75	3-3-4-3		ASPHALTIC CONCRETE (4 in.)	1.25			20.5				
			GRANULAR SUBBASE (crushed stone)										
			CL, SANDY CLAY, trace gravel, stiff, brown										
SS-2	X	75	2-3-3-2		SM, SILTY SAND, trace gravel, loose, moist, brown								
SS-3	X	65	1-2-2-2		SP, FINE TO MEDIUM SAND, trace gravel, very loose to loose, moist, brown								
SS-4	X	75	2-3-3-3										
SS-5	X	70	2-3-4-3										
SS-6	X	75	2-4-5-5										
SS-7	X	90	8-9-11-12	SW, SAND, some gravel, medium dense, moist, brown									
SS-8	X	85	7-0-9-10										
End of Boring at 16.3 ft													

### WATER LEVEL OBSERVATIONS

Depth ft	▽ While Drilling	▽ Upon Completion	▽ After Drilling
To Water	NW	NW	BF
To Cave-in		7½	

### GENERAL NOTES

Start **1/30/06** End **1/30/06** Rig **CME 75**  
Drilling Method **3¼" I.D. HSA** Truck  
Remarks **Backfilled with auger cuttings,  
bentonite chips and concrete patch at surface.**

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.



# LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
 Location **Columbus, Indiana**  
 Client **Astbury Environmental Engineering, Inc.**  
 7770 West New York Street - Indianapolis, Indiana 46214  
 317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-4**  
 Elevation **---**  
 Datum **---**  
 EEI Proj. No. **1-06-028**  
 Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
 Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE					DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES							
No.	Type	Rec %	Blow Counts	Depth ft		q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>d</sub> pcf	W %	LL %	PL %	PI %	
SS-1	X	75	2-2-3-4		ASPHALTIC CONCRETE (5 in.)	1.25			23.3				
					GRANULAR SUBBASE (crushed stone)								
				CL, SANDY CLAY, trace gravel, stiff, brown									
SS-2	X	70	3-2-2-2		SM, SILTY SAND, little gravel, very loose, moist, brown								
SS-3	X	40	2-2-2-2	5	SP, FINE TO MEDIUM SAND, trace gravel, very loose to medium dense, moist, brown								
SS-4	X	75	4-7-10-11										
SS-5	X	80	7-8-10-10	10									
SS-6	X	70	6-7-8-8										
SS-7	X	75	4-7-8-9		SW, SAND, some gravel, medium dense, moist, brown								
SS-8	X	75	5-6-7-10	15									
End of Boring at 16.4 ft													

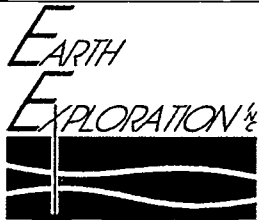
## WATER LEVEL OBSERVATIONS

Depth ft ☐ While Drilling ☐ Upon Completion ☐ After Drilling  
 To Water **NW** **NW** **BF**  
 To Cave-in **6 1/2**

## GENERAL NOTES

Start **1/30/06** End **1/30/06** Rig **CME 75**  
 Drilling Method **3 1/4" I.D. HSA** Truck  
 Remarks **Backfilled with auger cuttings, bentonite chips and concrete patch at surface.**

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.



# LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
 Location **Columbus, Indiana**  
 Client **Astbury Environmental Engineering, Inc.**  
 7770 West New York Street - Indianapolis, Indiana 46214  
 317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-5**  
 Elevation **---**  
 Datum **---**  
 EEI Proj. No. **1-06-028**  
 Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
 Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE				DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES								
No.	Type	Rec %	Blow Counts		Depth ft	q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>d</sub> pcf	W %	LL %	PL %	PI %	
SS-1	X	75	9-7-6-5		ASPHALTIC CONCRETE, (5 in.) GRANULAR SUBBASE (crushed stone)	1.5			14.8				
SS-2	X	70	2-3-3-4		CL, SANDY CLAY, trace gravel, stiff, brown	1.5			20.5				
SS-3	X	90	1-2-2-1	5	SM, SILTY SAND, trace gravel, very loose, moist, brown								
SS-4	X	40	1-1-1-1	10	SP, FINE TO MEDIUM SAND, trace gravel, very loose, moist, brown								
SS-5	X	75	1-1-1-1										
SS-6	X	75	1-2-1-5										
SS-7	X	80	6-7-8-10										
SS-8	X	85	10-14-11-9	15	SW, SAND, some gravel, medium dense, moist, brown								
					End of Boring at 16.4 ft								

## WATER LEVEL OBSERVATIONS

Depth ft ▽ While Drilling ▽ Upon Completion ▽ After Drilling  
 To Water NW NW BF  
 To Cave-in 8½

## GENERAL NOTES

Start 1/30/06 End 1/30/06 Rig CME 75  
 Drilling Method 3¼" I.D. HSA Truck  
 Remarks Backfilled with auger cuttings, bentonite chips and concrete patch at surface.

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.





# LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
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 Client **Astbury Environmental Engineering, Inc.**  
 7770 West New York Street - Indianapolis, Indiana 46214  
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Boring No. **SB-6**  
 Elevation **---**  
 Datum **---**  
 EEI Proj. No. **1-06-028**  
 Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
 Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE				DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES						
No.	Type	Rec %	Blow Counts		q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>t</sub> pcf	W %	LL %	PL %	PI %
SS-1	X	90	7-3-3-2	PORTLAND CEMENT CONCRETE (4 in.) GRANULAR SUBBASE (crushed stone)	0.75			17.1			
SS-2	X	90	3-3-4-6	CL, SANDY CLAY, trace gravel, medium to very stiff, brown	2.5			19.8			
SS-3	X	85	2-3-2-3	SC, CLAYEY SAND, trace gravel, loose, moist, brown							
SS-4	X	50	1-1-1-1	SP, FINE TO MEDIUM SAND, trace gravel, very loose to loose, moist, brown							
SS-5	X	60	2-3-4-4								
SS-6	X	65	3-4-5-6								
SS-7	X	90	8-10-10-10	SW, SAND, some gravel, loose to medium dense, moist, brown							
SS-8	X	85	6-8-10-11								
End of Boring at 16.3 ft											

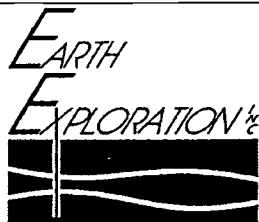
## WATER LEVEL OBSERVATIONS

Depth **ft**    ∇ While Drilling    ∇ Upon Completion    ∇ After Drilling  
 To Water **NW**    **NW**    **BF**  
 To Cave-in **10½**

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

## GENERAL NOTES

Start **1/30/06** End **1/30/06** Rig **CME 75**  
 Drilling Method **3¼" I.D. HSA** Truck  
 Remarks **Backfilled with auger cuttings, bentonite chips and concrete patch at surface.**



# LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
 Location **Columbus, Indiana**  
 Client **Astbury Environmental Engineering, Inc.**  
 7770 West New York Street - Indianapolis, Indiana 46214  
 317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-7**  
 Elevation **---**  
 Datum **---**  
 EEI Proj. No. **1-06-028**  
 Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
 Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE				DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES						
No.	Typ	Rec %	Blow Counts		q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>s</sub> pcf	W %	LL %	PL %	PI %
SS-1	X	50	3-5-3-3	PORTLAND CEMENT CONCRETE (4 in.) CL-ML, SILTY CLAY, some sand, trace gravel, stiff, gray and brown	1.0			21.5			
SS-2	X	40	1-2-2-1	SP, FINE SAND, little gravel, very loose, moist, brown							
SS-3	X	75	8-10-15-17	SW, SAND, little gravel, medium dense, moist, brown							
SS-4	X	40	1-2-1-1	SP-SM, FINE TO MEDIUM SAND, little gravel, very loose, moist, brown							
SS-5	X	40	2-1-1-2								
SS-6	X	40	5-8-9-10								
SS-7	X	75	5-8-10-13	SW, SAND, some gravel, medium dense, moist, brown							
SS-8	X	75	12-13-13-12								
SS-9	X	75	5-10-12-12								
SS-10	X	75	5-9-9-12	SP, FINE TO MEDIUM SAND, little gravel, medium dense, moist, brown, with petroleum odor between 20 and 22'							
SS-11	X	75	8-10-12-12								
SS-12	X	75	13-4-8-10	CL, SANDY CLAY, little gravel, very stiff, brown and gray	2.5			16.9			
SS-13	X	75	5-6-6-8		3.0			21.0			
SS-14	X	75	5-7-7-8	SM, SILTY SAND, little gravel, medium dense to loose, moist to wet, brown							
SS-15	X	75	3-4-4-6								
End of Boring at 30.3 ft											

## WATER LEVEL OBSERVATIONS

Depth ft      ▽ While Drilling      ▽ Upon Completion      ▽ After Drilling

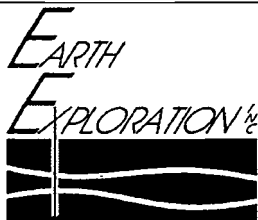
To Water      26      NW      BF

To Cave-in      18½

## GENERAL NOTES

Start 1/31/06 End 1/31/06 Rig CME 75  
 Drilling Method 3½" I.D. HSA Truck  
 Remarks Backfilled with auger cuttings, bentonite chips and concrete patch at surface.

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.



## LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
 Location **Columbus, Indiana**  
 Client **Astbury Environmental Engineering, Inc.**  
 7770 West New York Street - Indianapolis, Indiana 46214  
 317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-8**  
 Elevation **---**  
 Datum **---**  
 EEI Proj. No. **1-06-028**  
 Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
 Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE				DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES						
No.	Type	Rec %	Blow Counts		q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>s</sub> pcf	W %	LL %	PL %	PI %
				<b>TOPSOIL</b>							
SS-1	X	75	1-2-2-2	CL, SANDY CLAY, trace gravel, stiff, brown	1.0			17.7			
SS-2	X	75	3-2-3-2	SC-SM, CLAYEY SAND, trace gravel, loose, moist, brown							
SS-3	X	75	2-3-3-3	SP, FINE TO MEDIUM SAND, little gravel, loose, moist, brown							
SS-4	X	75	4-3-4-5	SP, FINE TO MEDIUM SAND, trace gravel, loose, moist, brown							
SS-5	X	75	5-6-8-9	SP, FINE TO MEDIUM SAND, little gravel, medium dense, moist, brown							
SS-6	X	75	7-8-10-13	SW, SAND, some gravel, medium dense, moist, brown							
SS-7	X	75	6-6-8-8								
SS-8	X	75	4-4-4-5	SP, FINE TO MEDIUM SAND, little gravel, loose to medium dense, moist, brown							
SS-9	X	75	6-7-9-10								
SS-10	X	75	6-8-9-9	SP, FINE TO MEDIUM SAND, trace gravel, medium dense, moist, brown							
SS-11	X	75	6-8-8-9								
SS-12	X	75	11-9-11-11	CL, SANDY CLAY, trace gravel, very stiff to stiff, brown and gray	2.25			20.3			
SS-13	X	75	4-5-5-6		0.75			23.1			
SS-14	X	75	4-4-5-6	SC, CLAYEY SAND, trace gravel, loose, moist, brown							
SS-15	X	75	6-7-6-6	ML, SANDY SILT, trace gravel, medium dense, moist, brown							
				End of Boring at 30.5 ft							

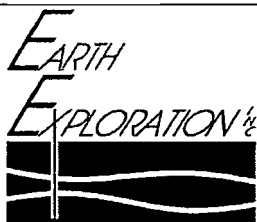
### WATER LEVEL OBSERVATIONS

Depth ft **▽** While Drilling **▽** Upon Completion **▽** After Drilling  
 To Water **28** **NW** **BF**  
 To Cave-in **11½**

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

### GENERAL NOTES

Start **1/31/06** End **1/31/06** Rig **CME 75**  
 Drilling Method **3¼" I.D. HSA** Truck  
 Remarks **Backfilled with auger cuttings and bentonite chip plug near surface.**

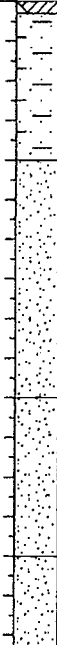


## LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
Location **Columbus, Indiana**  
Client **Astbury Environmental Engineering, Inc.**  
7770 West New York Street - Indianapolis, Indiana 46214  
317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-9**  
Elevation **---**  
Datum **---**  
EEI Proj. No. **1-06-028**  
Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE				DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES							
No.	Type	Rec %	Blow Counts		Depth ft	q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>d</sub> pcf	W %	LL %	PL %	PI %
SS-1	X	75	2-3-3-3		PORTLAND CEMENT CONCRETE (3 in.)							
SS-2	X	75	3-3-3-4		SC, CLAYEY SAND, trace gravel, loose, moist, brown							
SS-3	X	75	3-3-4-4		SP, FINE TO MEDIUM SAND, little gravel, loose, moist, brown, SS-3: P-200 = 10.3%							
SS-4	X	75	3-5-4-5									
SS-5	X	75	3-5-6-6									
SS-6	X	75	6-7-8-8		SW, SAND, some gravel, medium dense, moist, brown							
SS-7	X	75	6-7-7-8									
SS-8	X	75	7-8-8-9		SP, FINE TO MEDIUM SAND, little gravel, medium dense, moist, brown							
End of Boring at 16.3 ft												

### WATER LEVEL OBSERVATIONS

Depth ft	▽ While Drilling	▽ Upon Completion	▽ After Drilling
To Water	NW	NW	BF
To Cave-in		11½	

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

### GENERAL NOTES

Start **1/31/06** End **1/31/06** Rig **CME 75**  
Drilling Method **3¼" I.D. HSA** Truck  
Remarks **Backfilled with auger cuttings, bentonite chips and concrete patch at surface.**



# LOG OF TEST BORING

Project **Proposed McDonald's Restaurant**  
 Location **Columbus, Indiana**  
 Client **Astbury Environmental Engineering, Inc.**  
 7770 West New York Street - Indianapolis, Indiana 46214  
 317-273-1690 / 317-273-2250 (Fax)

Boring No. **SB-10**  
 Elevation **---**  
 Datum **---**  
 EEI Proj. No. **1-06-028**  
 Sheet **1** of **1**

Proj. No. **---** Station **---** Weather **Cloudy** Driller **B.J.**  
 Struct. No. **---** Offset **---** Temp. **30° F** Inspector **---**

SAMPLE					DESCRIPTION/CLASSIFICATION and REMARKS	SOIL PROPERTIES							
No.	Type	Rec %	Blow Counts	Depth ft		q <sub>p</sub> tsf	q <sub>u</sub> tsf	γ <sub>d</sub> pcf	W %	LL %	PL %	Pi %	
SS-1		40	1-1-2-2	0	GRAVEL, (fill) SP-SM, FINE SAND, some gravel, very loose, moist, brown, (fill)								
SS-2		40	2-1-1-2	1	SP, FINE SAND, trace gravel, very loose, moist, brown, (fill)								
SS-3		40	2-1-2-3	2	SP-SM, FINE TO MEDIUM SAND, little gravel, very loose, moist, brown, (fill), with silty clay seam between 5 and 6'	0.5			14.7				
SS-4		40	2-1-1-1	3									
SS-5		40	2-1-1-2	4									
SS-6		40	2-3-3-4	5	SP, FINE TO MEDIUM SAND, little gravel, loose, moist, brown								
SS-7		75	10-12-12-12	10	SW, SAND, some gravel, medium dense, moist, brown								
SS-8		75	10-13-14-14	15									
					End of Boring at 16.3 ft								

## WATER LEVEL OBSERVATIONS

Depth ft **---** While Drilling **NW** Upon Completion **NW** After Drilling **BF**  
 To Water **---** To Cave-in **11½**

## GENERAL NOTES

Start **1/31/06** End **1/31/06** Rig **CME 75**  
 Drilling Method **3½" I.D. HSA** Truck  
 Remarks **Backfilled with auger cuttings and bentonite chip plug near surface.**

The stratification lines represent the approximate boundary between soil/rock types and the transition may be gradual.

**APPENDIX D**  
**GENERAL SPECIFICATION NO. 1**

## GENERAL SPECIFICATION NO. 1 Recommended Compacted Fill Specifications

### Fill Materials

The materials used for fill shall contain no vegetation, ash, wood, frozen material, organic soils, or any material which by decay or otherwise might cause settlement. Materials to be placed within 10 ft of building areas shall be free from rock, stone or broken concrete larger than 4 in. in the largest dimension. Outside building and parking areas, pieces of concrete and large rocks or boulders, not exceeding 2 sq. ft for any area of surface, may be placed in fills without being broken up provided they are not placed within 2 ft of the final fill surface and they are well embedded and the interstices filled with smaller material as approved by the Engineer.

### Placement Method

The approved fill material shall be deposited, spread and leveled in layers generally not exceeding 8 in. in thickness before compaction. For granular fill, moisture shall be added or the material shall be dried as required to permit proper compaction. For cohesive fill, or granular fill with a significant percentage of cohesive fines, the moisture content at compaction shall be within 3 percent of optimum moisture content. Cohesive fill material should also be adequately broken down by suitable equipment such as discs or plows as approved by the engineer.

It is the responsibility of the Contractor to provide all necessary compaction equipment and other grading equipment that may be required to obtain the specified compaction. Compaction by travel of grading equipment will not be considered adequate for uniform compaction. Hand guided vibratory or tamping compactors will be required whenever fill is placed adjacent to walls, footings, columns or in confined areas.

### Compaction Specifications

Maximum dry density of the fill soil shall be determined in accordance with ASTM\* Test Designation D 1557. The recommended minimum field compaction as a percentage of the maximum dry density is indicated in the report.

### Testing Procedures

Fifty (50) pound representative samples of proposed fill materials shall be submitted to an independent laboratory for particle size analysis/Atterberg limits testing and optimum moisture/maximum density determinations prior to the start of any filling operations.

Field density tests for determining the compaction of the fill shall be performed by a qualified testing laboratory in accordance with standard recognized procedures for making such tests. These tests shall be made on each lift at the outset and required by the Geotechnical Engineer for the balance of the job.

\* American Society for Testing and Materials, Philadelphia, PA

***APPENDIX D***

**Soil and Groundwater Laboratory Certificate of Analysis/  
Chain-of-Custody Form**



# - CERTIFICATE OF ANALYSIS -

Report Date: 03-Feb-06

Client ID: ASTBURY\_ENV2

Astbury Environmental Eng.  
5645 West 79th Street  
Indianapolis, Indiana 46278

Attn: Fred Nichols

Phone: 317-472-0999

FAX: 317-472-0993

Our Lab # 06001121-001

Your Sample ID: B-7 @ 10-12

Your Project # 150.06-006N

Collection Date: 01/31/06 09:11

Your Project Name: Bushman Realty-Columbus

Collected By: Client

Sample Type: Soil

Receipt Date: 02/01/06 09:55

Total Solids @ 105°C

Analytical Method Prep Method Prep Date By  
EPA 160.3

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Total Solids @ 105°C	94.8	%		0.50		2/2/06	bheller

TPH Diesel Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Diesel Range Organics	< 11	mg/kg DryWt		11		2/1/06	mglasheen

TPH Gasoline Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Gas Range Organics	< 11	mg/kg DryWt		11		2/1/06	mglasheen

Lab # 06001121-001

Sample ID: B-7 @ 10-12

Page 1 of 4

**ESG Laboratories**

5927 WEST 71ST STREET  
INDIANAPOLIS, INDIANA 46278  
A Member of THE ASTBURY GROUP

PHONE (317) 290-1471  
FAX (317) 290-1670



Our Lab # 06001121-002

Your Sample ID: B-7 Water

Your Project # 150.06-006N

Collection Date: 01/31/06 10:15

Your Project Name: Bushman Realty-Columbus

Collected By: Client

Sample Type: Water

Receipt Date: 02/01/06 09:55

MBTEX, GC/PID

Analytical Method Prep Method Prep Date By  
SW846 8021B

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Methyl-tert-butyl ether	< 5.0	ug/L	PQL	5.0	1634-04-4	2/2/06	swaldron
Benzene	< 5.0	ug/L	PQL	5.0	71-43-2	2/2/06	swaldron
Toluene	< 5.0	ug/L	PQL	5.0	108-88-3	2/2/06	swaldron
Ethylbenzene	< 5.0	ug/L	PQL	5.0	100-41-4	2/2/06	swaldron
Xylene, Total	< 5.0	ug/L	PQL	5.0	1330-20-7	2/2/06	swaldron
4-Bromofluorobenzene (Surr)	102	%			460-00-4	2/2/06	swaldron

Our Lab # 06001121-003

Your Sample ID: B-8 @ 8-10

Your Project # 150.06-006N

Collection Date: 01/31/06 11:01

Your Project Name: Bushman Realty-Columbus

Collected By: Client

Sample Type: Soil

Receipt Date: 02/01/06 09:55

Total Solids @ 105°C

Analytical Method Prep Method Prep Date By  
EPA 160.3

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Total Solids @ 105°C	96.3	%		0.50		2/2/06	bheller

TPH Diesel Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Diesel Range Organics	< 10	mg/kg DryWt		10		2/1/06	mglasheen

TPH Gasoline Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Gas Range Organics	< 10	mg/kg DryWt		10		2/1/06	mglasheen

Lab # 06001121-003

Sample ID: B-8 @ 8-10

Page 2 of 4

**ESG Laboratories**

5927 WEST 71ST STREET  
INDIANAPOLIS, INDIANA 46278  
A Member of THE ASTBURY GROUP

PHONE (317) 290-1471  
FAX (317) 290-1670



Our Lab # 06001121-004

Your Sample ID: B-9 @ 6-8

Your Project # 150.06-006N

Collection Date: 01/31/06 12:36

Your Project Name: Bushman Realty-Columbus

Collected By: Client

Sample Type: Soil

Receipt Date: 02/01/06 09:55

Total Solids @ 105°C

Analytical Method Prep Method Prep Date By  
EPA 160.3

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Total Solids @ 105°C	96.1	%		0.50		2/2/06	bheller

TPH Diesel Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Diesel Range Organics	< 10	mg/kg DryWt		10		2/1/06	mglasheen

TPH Gasoline Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Gas Range Organics	< 10	mg/kg DryWt		10		2/1/06	mglasheen

Lab # 06001121-004

Sample ID: B-9 @ 6-8

Page 3 of 4

**ESG Laboratories**

5927 WEST 71ST STREET  
INDIANAPOLIS, INDIANA 46278  
A Member of THE ASTBURY GROUP

PHONE (317) 290-1471  
FAX (317) 290-1670



Our Lab # 06001121-005

Your Sample ID: B-10 @ 6-8

Your Project # 150.06-006N

Collection Date: 01/31/06 13:25

Your Project Name: Bushman Realty-Columbus

Collected By: Client

Sample Type: Soil

Receipt Date: 02/01/06 09:55

Total Solids @ 105°C

Analytical Method Prep Method Prep Date By  
EPA 160.3

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Total Solids @ 105°C	84.2	%		0.50		2/2/06	bheller

TPH Diesel Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Diesel Range Organics	< 12	mg/kg DryWt		12		2/1/06	mglasheen

TPH Gasoline Range Organics, GC/FID

Analytical Method Prep Method Prep Date By  
SW846 8015M

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
TPH Gas Range Organics	< 12	mg/kg DryWt		12		2/1/06	mglasheen

**Data Qualifiers:**

Qualifier	Description
PQL	Value is between MDL & practical quantitation limit



2/3/06

Lab Manager

Date

Lab # 06001121-005

Sample ID: B-10 @ 6-8

Page 4 of 4

**ESG Laboratories**

5927 WEST 71ST STREET  
INDIANAPOLIS, INDIANA 46278  
A Member of THE ASTBURY GROUP

PHONE (317) 290-1471  
FAX (317) 290-1670



# CHAIN OF CUSTODY RECORD

**A Member of the Astbury Group**

**Address: 5645 West 79th Street, Indianapolis, Indiana 46278**

Phone: (317) 472-0999, Fax: (317) 472-0993

Project Name  
Bushman Realty - Columbus

Project No.

**Samplers (Signature)**

DM-F. Nichols

#060012112

Project No. 150106-006N		Project Name Bushman Reentry - Columbus	
Samplers (Signature)			
Sta. No.	Date	Time	Comp
1	13/06	911	X
2	13/06	1015	X
3	1	1101	X
4	1	1236	X
5	1	1325	X
Station Location			
B-7 (10-12)			
B-7 (Water)			
B-8 (8-10)			
B-9 (6-8)			
B-10 (6-8)			
No. of Containers			
1			
2			
1			
1			
1			
Date / Time			
Received by: (Signature)			
Relinquished by: (Signature)			
Remarks			
1003 on 20-11			



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

February 17, 2010

**VIA CERTIFIED MAIL #91 7190 0005 2710 0002 2727**

GSW LLC  
1075 East Second Street  
Columbus, IN 47201

RE: **Violation Letter**  
Tom's Food & Fuel II  
FID 18438  
Columbus, Bartholomew County

Dear Owner,

On February 11, 2010, Troy South from the Indiana Department of Environmental Management, Office of Land Quality, Underground Storage Tank Section, conducted an inspection of Tom's Food & Fuel II located at 867 E 2<sup>nd</sup> Street Columbus, Indiana. This inspection was conducted pursuant to IC 13-14-2-2. For your information, and in accordance with IC 13-14-5, a summary of the inspection is provided below:

Type of Inspection:      ☒      UST Compliance  
                                     ☐      Complaint  
                                     ☐      Other

Results of Inspection:      ☐      Violations were observed but corrected during the inspection.  
                                     ☐      Additional information/review is required to evaluate overall compliance.  
                                     ☒      Violations were observed.  
                                     ☐      Violations were observed and will be referred for enforcement.

This inspection revealed that your facility is in violation of Indiana Rule 329 IAC 9-7 (Rule 7 Release Detection) which states that:

Underground piping that conveys regulated substances under pressure must:  
(i) be equipped with an automatic line leak detector under section 5(1) of this rule;

and (ii) have an annual line tightness test conducted under section 5(2) or have monthly monitoring conducted under section 5(3).

An annual test of the operation of the line leak detector must be conducted in accordance with the manufacturer's requirements (329 IAC 9-7-5).

These violations are based on a determination that the owner/operator could not demonstrate compliance with release detection requirements for site pressurized piping at time of inspection, because line leak detector and line tightness testing had not been conducted annually.

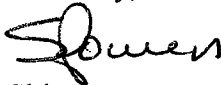
This inspection revealed that your facility is in violation of Indiana Rule 329 IAC 9-2-2 Notification requirements which states that: Sec. 2 (b) Any person who owns an UST system or tank shall, within thirty (30 days of owning such an UST system or tank or bringing such tank or UST system into use, submit notice to the agency to register the tank or UST system.

This violation is based on a determination that the current owner did not submit a Notification for Underground Storage Tanks form indicating a change of ownership within the required timeframe.

Compliance must be achieved with each of the requirements listed above and on the UST Inspection Compliance Summary report within the specified time periods. Noncompliance with any of the violations listed above noted at the time of the next inspection may result in an enforcement action by IDEM. The required information may be faxed to 317-234-0428 or e-mailed to [tsouth@idem.IN.gov](mailto:tsouth@idem.IN.gov) except that the Notification for USTs form must be received by IDEM signed in original ink. Thank you for your attention to this matter.

Please direct any response to this letter and any questions to Troy South at 317-750-2491.

Sincerely,



Skip Powers, Chief  
Underground Storage Tank Section  
Compliance and Response Branch  
Office of Land Quality

SP/sd



# Indiana Department of Environmental Management

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

Michael R. Pence  
Governor

April 21, 2016

Carol S. Comer  
Commissioner

VIA CERTIFIED MAIL

1Z 198 24W 42 9717 8932

Patel 867 Realty LLC, Property Owner  
867 E. 2<sup>nd</sup> Street  
Columbus, Indiana 47201

VIA CERTIFIED MAIL

1Z 198 24W 42 9742 9152

Kishankumar Patel, Registered Agent  
Patel 867 Realty LLC  
1447 E. Main Street, Suite A  
Brownsburg, Indiana 46112

Re: Notice and Order of the Commissioner  
Effective Date  
Commissioner of the IDEM  
v.  
Patel 867 Realty LLC  
Case No. 2014-22714-U  
FID No. 18438  
Columbus, Bartholomew County

Dear Mr. Patel:

IDEM issued a Notice and Order of the Commissioner to Patel 867 Realty LLC on March 15, 2016. The Order provided 19 days from receipt to file any objection to the findings of fact and proposed terms of the Notice and Order, after which the Notice and Order would become effective and enforceable. Because IDEM did not receive a request for an administrative review of this matter, the Notice and Order of the Commissioner became effective and enforceable on April 6, 2016. You are therefore required to comply with the terms of the enclosed Notice and Order.

If you have any questions, please contact Chike Okeke, Enforcement Case Manager at (317) 232-8527. Thank you for your cooperation in this matter.

Sincerely,

Nancy Johnston, Section Chief  
Enforcement Section  
Office of Land Quality

Enclosure

cc: OLQ Public File  
Bartholomew County Health Department  
Kevin Stark, UST Section



A State that Works



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence  
Governor

**Carol S. Comer**  
*Commissioner*

March 15, 2016

STATE OF INDIANA ) SS: BEFORE THE INDIANA DEPARTMENT OF  
 )  
COUNTY OF MARION ) ENVIRONMENTAL MANAGEMENT

COMMISSIONER OF THE DEPARTMENT )  
OF ENVIRONMENTAL MANAGEMENT, )  
 )  
Complainant, )  
 )  
v. ) Case No. 2014-22714-U  
 )  
PATEL 867 REALTY LLC, )  
 )  
Respondent. )

NOTICE AND ORDER OF THE  
COMMISSIONER OF THE  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Via Certified Mail#: 91-7190-0005-2710-0047-6814

To: Patel 867 Realty LLC, Property Owner  
867 E. 2<sup>nd</sup> Street  
Columbus, Indiana 47201

Via Certified Mail#: 91-7190-0005-2710-0047-6821

Kishankumar Patel, Registered Agent  
Patel 867 Realty LLC  
1447 E. Main Street, Suite A  
Brownsburg, Indiana 46112

This Notice and Order of the Commissioner of the Department of Environmental Management ("Order") is issued against Respondent for violation of the Indiana Environmental Management Act. This Order is issued pursuant to Indiana Code ("IC") 13-30-3-4, IC 13-30-3-10, and IC 13-30-3-11, and is based on a violation found during an investigation conducted by the Office of Land Quality on December 19, 2013, April 22, 2014 and August 27, 2014. During the investigation it was determined that Respondent is in violation of 329 Indiana Administrative Code ("IAC") 9-2-2(a), (b), and (d).



## A State that Works

### **FINDING OF VIOLATION**

1. Respondent is Patel 867 Realty LLC ("Respondent"), which owns and/or operates the Underground Storage Tank ("UST") system with Facility ID No. 18438, located at 867 East 2<sup>nd</sup> Street, in Columbus, Bartholomew County, Indiana ("Site").
2. There are ten (10) fiberglass underground storage tanks at the Site. The capacities of the tanks include eight (8) twenty thousand (20,000) gallon tanks, a ten thousand (10,000) gallon tank, and a six thousand (6,000) gallon tank. The underground storage tanks were installed in 1992.
3. Owner as defined in IC 13-11-2-150(a)(1)(A) means, for an UST that was in use on November 8, 1984 or brought into use after November 8, 1984 for the storage, use, or dispensing of regulated substances, a person who owns the UST or the real property that is the UST site, or both. According to the Bartholomew County Assessor's Office, Respondent is the owner of the Site.
4. Pursuant to 329 IAC 9-2-2(a) all notifications required to be submitted under this section must be submitted on a form prescribed by the commissioner; (b) any person who owns an UST system or tank shall, within thirty (30) days of owning such an UST system or tank or bringing such tank or UST system into use, submit notice to the agency to register the tank or UST system. Bringing a tank or UST system "into use" means the tank or UST system contains or has contained a regulated substance and not been closed under 329 IAC 9-6; and (d) an owner required to submit notice under this section shall provide all the information required by the form provided by the agency for each tank for which notice is submitted.

As noted during the investigation, Respondent failed to submit notice to IDEM to register the tank or UST system within thirty (30) days of owning such an UST system or tank or bringing such tank or UST system into use.

5. On December 30 2014, a Notice of Violation was issued, pursuant to IC 13-30-3-3 to Respondent for violation of 329 IAC 9-2-2(a), (b), and (d). Respondent received this Notice of Violation on December 31, 2014.
6. The Notice of Violation contained an offer to enter into an Agreed Order containing actions required to correct the violation.
7. More than sixty (60) days have elapsed since Respondent was offered the opportunity to enter into an Agreed Order.
8. Respondent has not entered into an Agreed Order resolving this violation.

### **ORDER**

1. Respondent shall immediately cease and desist violation of 329 IAC 9-2-2(a), (b), and (d).

2. Respondent shall, within thirty (30) days of the Effective Date of this Order, comply with 329 IAC 9-2-2(a), (b), and (d). Specifically, Respondent shall submit notice to IDEM to register the tanks using an approved Notification Form for Underground Storage Tanks. Respondent may find the form at <https://forms.in.gov/Download.aspx?id=9565>.
3. All submittals required by this Commissioner's Order, unless notified otherwise in writing, shall be sent to:  
  
Chike Okeke, Enforcement Case Manager  
Indiana Department of Environmental Management  
Office of Land Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251
4. Respondent shall pay a civil penalty of Seven Thousand Dollars (\$7,000) for the violation of 329 IAC 9-2-2(a), (b), and (d). This penalty shall be remitted to the Department of Environmental Management within thirty (30) days of the Effective Date of this Order. Checks shall be made payable to the Underground Petroleum Storage Tank Trust Fund, with the Case Number indicated on the checks and mailed to:  
  
Indiana Department of Environmental Management  
Office of Legal Counsel  
IGCN, Room N1307  
100 North Senate Avenue  
Indianapolis, Indiana 46204
5. This Order shall apply to and be binding upon Respondent, its successors and assigns. No change in ownership, corporate, or partnership status of Respondent shall in any way alter its status or responsibilities under this Order.

#### **EFFECTIVE DATE OF ORDER**

Pursuant to IC 13-30-3-5, this Order takes effect twenty (20) days following receipt unless you request review of this Order, before the twentieth day after receipt, by filing a written request for review with the Office of Environmental Adjudication, and serving a copy of the request for review upon the Commissioner of the Indiana Department of Environmental Management. You may request that the Office of Environmental Adjudication conduct a hearing to review this Order, under IC 4-21.5, in its entirety, or you may limit your request for review to specific findings of fact and/or orders contained in this Order. Requests for review must be submitted to the Office of Environmental Adjudication and the Commissioner of the Indiana Department of Environmental Management at the following addresses:

Director  
Office of Environmental Adjudication  
Indiana Government Center North  
100 North Senate Avenue, Room 501  
Indianapolis, Indiana 46204

Commissioner  
IDEM  
100 North Senate Avenue, Room 1301  
Indianapolis, Indiana 46206-6015

Failure to properly submit a request for review, before the twentieth day following receipt of this Order of the Commissioner, waives your right to administrative review of this Order and your right to judicial review of the Order. The petition for administrative review must contain the following information:


- a. Name, address, and telephone number of each person filing the petition.
- b. Identification of the interest of each petitioner in the subject of the petition.
- c. Statement of facts demonstrating that the petitioner is:
  - (A) a person to whom the order is directed;
  - (B) aggrieved or adversely affected by the order; or
  - (C) entitled to review under any law.
- d. Statement with particularity the legal issues proposed for consideration in the proceedings.

The petition for administrative review should also contain the following information:

- a. Identification of any persons represented by the person making the request.
- b. Statement identifying the person against whom administrative review is sought.
- c. A copy of the notice of the commissioner's action issued by the department of environmental management which is the basis of the petition for administrative review.
- d. Statement indicating the identification of petitioner's attorney or other representative.

If you have procedural or scheduling questions regarding your request for review you may contact the Office of Environmental Adjudication at (317) 232-8591.

Dated at Indianapolis, Indiana this 15<sup>th</sup> day of March, 2016.

  
Carol S. Comer  
Commissioner

Patel 867 Realty LLC  
Case No. 2014-22714-U  
Page 5

cc: Bartholomew County Health Department  
IDEM Public file  
<http://www.in.gov/idem>  
Roy Harbert, Chief, UST Section  
Chike Okeke, Case Manager





United States

Welcome, Donna Bates |

Logout |

Changing Languages |

Contact UPS |

The UPS Store

Sub

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## Tracking Detail

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1Z19824W4297178932

[Add Description](#)

Updated: 04/26/2016 10:58 A.M. Eastern Time

## Address Information Required

Out for  
Delivery

Delivered

The shipping address provided is either incorrect or incomplete. Please provide the correct shipping address by selecting the **Correct My Address** button below.

## Scheduled Delivery:

Scheduled delivery information is not available at this time. Please check back later.

## Last Location:

Columbus, IN, United States, Friday, 04/22/2016

## Special Instructions:

**Signature Required**

[Notify me with Updates »](#)[Change Delivery »](#)[Report a Claim »](#)Need more  
information?[Get Help](#)

## Shipping Information

To:  
**COLUMBUS, IN, US**

## Service

**UPS Ground**

## Shipment Progress

[What's This?](#)

Location	Date	Local Time	Activity
Columbus, IN, United States	04/22/2016	5:43 P.M.	The delivery location is vacant. / We've contacted the receiver to request additional information.
	04/22/2016	12:50 P.M.	The delivery location is vacant.
	04/22/2016	7:16 A.M.	Destination Scan
	04/22/2016	5:39 A.M.	Arrival Scan
Indianapolis, IN, United States	04/22/2016	4:00 A.M.	Departure Scan
Indianapolis, IN, United States	04/21/2016	10:43 P.M.	Arrival Scan
	04/21/2016	10:19 P.M.	Departure Scan
	04/21/2016	7:48 P.M.	Origin Scan
	04/21/2016	3:55 P.M.	Pickup Scan
United States	04/21/2016	1:19 P.M.	Order Processed: Ready for UPS

## Additional Information

**Reference Number(s):** 1833  
**Shipment Category:** Package  
**Shipped/Billed On:** 04/21/2016  
**Weight:** 3.00 lbs

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# UNDERGROUND STORAGE TANK INSPECTION REPORT

INDIANA DEPARTMENT OF  
ENVIRONMENTAL MANAGEMENT

Inspector's Name:	Kevin Stark
Date:	2/19/2016
Time In:	11:15 AM
Time Out:	12:50 PM
Inspection Type:	Abandoned Tank(s)

## General Information

### Facility Information

Facility Name	Tom's Food & Fuel
Facility Location	867 E 2nd ST Columbus, IN 47201, Bartholomew County
Facility Mailing Information	1447 E. Main Street, Suite A Brownsburg, IN 46112
Owner Information	
UST Operator Certificate [329 IAC 9-9]	Name: Kishan Patel Compliant with IDEM'S UST "A" Operator Training in accordance with 329 IAC 9. Certification Expiration Date: 7/16/2016

### Operating Information

Facility Registration Number	18438
GPS Location Collected	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Previously Collected
Financial Assurance Financial Responsibility [329 IAC 9-8]	No
Number of Registered Tanks	10
Number of Compartmented USTs	0

## General Comments

### Tank Information

Tank #	Contents	Status	Install Date
1	Gasoline	Temp. Closed	11/15/1992
ID	Dimensions	Capacity	Contents
1		20000	Gasoline
Corrosion Protection		Anode Test	
Tank	Piping		
Fiberglass	Flex Fiberglass		
Last Tank Corrosion Test	Last Piping Corrosion Test		
Release Detection		Spill Protection	
Tank	Piping		



		Catchment Basin
Automatic Tank Gauge Tank Tightness Testing	Automatic Tank Gauge Pressurized Piping Annual Line Tightness Test Line Leak Detectors	Overfill Protection
		Automatic Shutoff

Tank #	Contents	Status	Install Date
2	Diesel	Temp. Closed	11/15/1992

ID	Dimensions	Capacity	Contents
2		10000	Diesel
Corrosion Protection			Anode Test
Tank		Piping	
Fiberglass		Fiberglass Flex	
Last Tank Corrosion Test		Last Piping Corrosion Test	
Release Detection			Spill Protection
Tank		Piping	Catchment Basin
Tank Tightness Testing Automatic Tank Gauge		Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test	Overfill Protection
			Automatic Shutoff

Tank #	Contents	Status	Install Date
3	Kerosene	Temp. Closed	11/15/1992

ID	Dimensions	Capacity	Contents
3		6000	Kerosene
Corrosion Protection			Anode Test
Tank		Piping	
Fiberglass		Fiberglass Flex	
Last Tank Corrosion Test		Last Piping Corrosion Test	
Release Detection			Spill Protection
Tank		Piping	Catchment Basin
Automatic Tank Gauge Tank Tightness Testing		Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test	Overfill Protection
			Automatic Shutoff

Tank #	Contents	Status	Install Date
4	Gasoline	Temp. Closed	11/15/1992

ID	Dimensions	Capacity	Contents
----	------------	----------	----------

4		20000	Gasoline
Corrosion Protection			Anode Test
Tank	Piping		
Fiberglass	Fiberglass Flex		
Last Tank Corrosion Test	Last Piping Corrosion Test		
Release Detection			Spill Protection
Tank	Piping		Catchment Basin
Automatic Tank Gauge Tank Tightness Testing	Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test	Overfill Protection	
		Automatic Shutoff	

Tank #	Contents	Status	Install Date
5	Gasoline	Temp. Closed	11/15/1992
<b>ID</b>	<b>Dimensions</b>	<b>Capacity</b>	<b>Contents</b>
5		20000	Gasoline
Corrosion Protection			Anode Test
Tank	Piping		
Fiberglass	Fiberglass Flex		
Last Tank Corrosion Test	Last Piping Corrosion Test		
Release Detection			Spill Protection
Tank	Piping		Catchment Basin
Automatic Tank Gauge Tank Tightness Testing	Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test	Overfill Protection	
		Automatic Shutoff	

Tank #	Contents	Status	Install Date
6	Diesel	Temp. Closed	11/15/1992
<b>ID</b>	<b>Dimensions</b>	<b>Capacity</b>	<b>Contents</b>
6		20000	Diesel
Corrosion Protection			Anode Test
Tank	Piping		
Fiberglass	Fiberglass Flex		
Last Tank Corrosion Test	Last Piping Corrosion Test		
Release Detection			Spill Protection
Tank	Piping		Catchment Basin

Automatic Tank Gauge Tank Tightness Testing	Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test	Overfill Protection
		Automatic Shutoff

Tank #	Contents	Status	Install Date
7	Diesel	Temp. Closed	11/15/1992

ID		Dimensions		Capacity		Contents	
7				20000		Diesel	
Corrosion Protection						Anode Test	
Tank			Piping				
Fiberglass			Fiberglass Flex				
Last Tank Corrosion Test			Last Piping Corrosion Test				
Release Detection						Spill Protection	
Tank			Piping			Catchment Basin	
Automatic Tank Gauge Tank Tightness Testing			Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test			Overfill Protection	
						Automatic Shutoff	

Tank #	Contents	Status	Install Date
8	Diesel	Temp. Closed	11/15/1992

ID		Dimensions		Capacity		Contents	
8				20000		Diesel	
Corrosion Protection						Anode Test	
Tank				Piping			
Fiberglass				Fiberglass Flex			
Last Tank Corrosion Test				Last Piping Corrosion Test			
Release Detection						Spill Protection	
Tank				Piping		Catchment Basin	
Automatic Tank Gauge Tank Tightness Testing				Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test		Overfill Protection	
						Automatic Shutoff	

Tank #	Contents	Status	Install Date
9	Diesel	Temp. Closed	11/15/1992

ID	Dimensions	Capacity	Contents

9		20000	Diesel
Corrosion Protection		Anode Test	
Tank	Piping		
Fiberglass	Fiberglass Flex		
Last Tank Corrosion Test	Last Piping Corrosion Test		
Release Detection		Spill Protection	
Tank	Piping	Catchment Basin	
Automatic Tank Gauge Tank Tightness Testing	Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test	Overfill Protection	
		Automatic Shutoff	

Tank #	Contents	Status	Install Date
10	Diesel	Temp. Closed	11/15/1992
ID	Dimensions	Capacity	Contents
10		20000	Diesel
Corrosion Protection		Anode Test	
Tank	Piping		
Fiberglass	Fiberglass Flex		
Last Tank Corrosion Test	Last Piping Corrosion Test		
Release Detection		Spill Protection	
Tank	Piping	Catchment Basin	
Automatic Tank Gauge Tank Tightness Testing	Automatic Tank Gauge Pressurized Piping Line Leak Detectors Annual Line Tightness Test	Overfill Protection	
		Automatic Shutoff	

### Deficiency List of Compliance Failures

Inspection Results/Action	
Inspection Results:	Violation
Facility Status:	Abandoned
Documents and Photos Comments:	
Written Summary of Inspection: Facility is abandoned.	

## IDEM Office of Underground Storage Tanks (UST) Compliance Inspection Additional Comments

Date (month, day, year) <u>2-19-16</u>	Time <u>in 11:15 am</u> out <u>12:50 pm</u>	County <u>Bartholomew</u>
Facility <u>Premier Fuel &amp; Food Mart</u>		
Location <u>867 E. 2nd St. Columbus, IN 47201</u>		
Facility ID <u>18438</u>	Not regulated	
Inspected by <u>Kevin Shirk &amp; Joe Stupinski</u>		
COMMENTS		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="text-align: center;">N ↑</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Chestnut St.</p> </div> <div style="width: 60%;"> <ul style="list-style-type: none"> <li>● - fill port</li> <li>○ - sump pit</li> <li>⊗ - dispenser</li> </ul> <p>- facility is abandoned</p> </div> </div> <p style="text-align: center; margin-top: 20px;">2nd Street</p> <div style="margin-top: 20px;"> </div>		
<p>T1 = 2 3/4" product</p> <p>T2 = 18" product</p> <p>T3 = 11" product</p> <p>T4 = 8 1/2" product</p> <p>T5 = 1" product</p> <p>T6 = 3" product</p> <p>T7 = 7 3/4" product</p> <p>T8 = 1 1/2" product</p> <p>T9 = 4 1/2" product</p> <p>T10 = 2" + product</p>		
<p>TANK # 10, could not reach bottom of tank. Also had at least 6" of water and broken spill bucket</p>		
N/A		
Facility representative signature	Inspector signature	



# NOTIFICATION FOR UNDERGROUND STORAGE TANKS

State Form 45223 (R7 / 9-18)

Indiana Department of Environmental Management

Underground Storage Tanks Branch

Facility ID Number: 18438

Owner ID Number:

## RETURN COMPLETED FORMS TO:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF LAND QUALITY, UST BRANCH  
100 N. Senate Avenue  
Indianapolis, IN 46204-2251  
UST: (317) 234-0343

The information requested is required by 329 IAC 9. This form should only be used for tanks previously registered with the IDEM Underground Storage Tank program.

**A**

### TYPE OF NOTIFICATION

<input type="checkbox"/> Facility Contact Change	<input checked="" type="checkbox"/> UST Owner Change	<input type="checkbox"/> Owner / Operator Information Change
<input type="checkbox"/> Type of Facility Change	<input checked="" type="checkbox"/> Property Owner Change	<input type="checkbox"/> Facility Name / Location Change
<input type="checkbox"/> UST System Modification	<input checked="" type="checkbox"/> UST Operator Change	<input type="checkbox"/> Financial Responsibility Mechanism Change
<input type="checkbox"/> New UST System(s)	<input type="checkbox"/> Other:	

**B**

### FACILITY NAME / LOCATION

FACILITY NAME Former Tom's Food and Fuel		FACILITY ADDRESS (number and street) 867 East 2nd Street	
CITY Columbus	STATE IN	ZIP CODE 47201	COUNTY Bartholomew
TELEPHONE NUMBER Station not in service	PARCEL NUMBER 03-95-25-110-001.101-005	LATITUDE 39.200330	LONGITUDE -85.9140.56

**C**

### CONTACT AT UST FACILITY

NAME OF CONTACT PERSON AT UST LOCATION Station not in service	JOB TITLE Station not in service
TELEPHONE NUMBER Station not in service	E-MAIL ADDRESS Station not in service

**D**

### TYPE OF FACILITY (Check all that apply.)

<input type="checkbox"/> Auto Dealership	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Airport Hydrant System
<input type="checkbox"/> Hospital	<input checked="" type="checkbox"/> Gas Station	<input type="checkbox"/> Industrial
<input type="checkbox"/> Petroleum Distributor	<input type="checkbox"/> Railroad	<input type="checkbox"/> Residential
<input type="checkbox"/> Trucking or Transport	<input type="checkbox"/> Utilities	<input type="checkbox"/> Unmanned
<input type="checkbox"/> Marina	<input type="checkbox"/> School	<input type="checkbox"/> Other:

**E**


### UST OWNER


UST OWNER NAME (Corporation, Individual, Public Agency, or Other Entity) Ricker Holdings, Inc.		FEDERAL ID NUMBER 83-1855881	
PHYSICAL ADDRESS (number and street) 30 West 11th Street	CITY Anderson	STATE IN	ZIP CODE 46016
MAILING ADDRESS (number and street) 30 West 11th Street	CITY Anderson	STATE IN	ZIP CODE 46016
TELEPHONE NUMBER 765-643-3016	E-MAIL ADDRESS jricker@rickers.net	EFFECTIVE DATE OF OWNERSHIP (MM/DD/YYYY) 11/30/2018	

**F**

### TYPE OF OWNER

<input type="checkbox"/> Federal Government	<input type="checkbox"/> State Government	<input type="checkbox"/> City / Local Government
<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Other:

<b>G</b>	<b>UST OPERATOR</b>			
UST OPERATOR NAME (Corporation, Individual, Public Agency, or Other Entity) <input type="checkbox"/> Individual			DATE BEGAN OPERATING (MM/DD/YYYY)	
Ricker Holdings, Inc.			11/30/2018	
PHYSICAL ADDRESS (number and street)		CITY	STATE	ZIP CODE
30 West 11th Street		Anderson	IN	46016
MAILING ADDRESS (number and street)		CITY	STATE	ZIP CODE
30 West 11th Street		Anderson	IN	46016
TELEPHONE NUMBER		E-MAIL ADDRESS		
765-643-3016		jricker@rickers.net		
<b>H</b>	<b>PROPERTY OWNER</b>			
PROPERTY OWNER NAME (Corporation, Individual, Public Agency, or Other Entity) <input type="checkbox"/> Individual			EFFECTIVE DATE OF OWNERSHIP (MM/DD/YYYY)	
Ricker Holdings, Inc.			11/30/2018	
PHYSICAL ADDRESS (number and street)		CITY	STATE	ZIP CODE
30 West 11th Street		Anderson	IN	46016
MAILING ADDRESS (number and street)		CITY	STATE	ZIP CODE
30 West 11th Street		Anderson	IN	46016
TELEPHONE NUMBER		E-MAIL ADDRESS		
765-643-3016		jricker@rickers.net		
<b>CONTRACTOR</b>				
CONTRACTOR/CONSULTANT NAME (Business Name)		CONTRACTOR ADDRESS (Number and Street)		
CONTRACTOR CITY		CONTRACTOR STATE	CONTRACTOR ZIP CODE	
CONTRACTOR TELEPHONE NUMBER		CONTRACTOR E-MAIL ADDRESS		
<p><b>OATH:</b> I swear or affirm, under penalty of perjury as specified by IC 35-44.1-2-1 and other penalties specified by IC 13-30-10 and IC 13-23-14-2, that work performed on the tank system complies with methods specified in 329 IAC 9 and 40 CFR 280, Subpart C.</p>				
CERTIFIED INDIVIDUAL NAME (Print or Type)		INDIANA DEPARTMENT OF HOMELAND SECURITY/DIVISION OF FIRE AND BUILDING SAFETY CERTIFICATION NUMBER		
SIGNATURE		DATE (MM/DD/YYYY)		
<b>UST OWNER CERTIFICATION</b>				
<p>I swear or affirm, under penalty of perjury as specified by IC 35-44.1-2-1 and other penalties specified by IC 13-30-10 and IC 13-23-14-2, that the statements and representations in this document are true, accurate, and complete. I further certify compliance with the following requirements in accordance with 329 IAC 9-2-2(e):</p> <ol style="list-style-type: none"> <li>(1) Installation of all tanks and piping under 40 CFR 280.20.</li> <li>(2) Cathodic protection of steel tanks and piping under 40 CFR 280.20.</li> <li>(3) Release detection under 40 CFR 280 Subpart D.</li> <li>(4) Financial responsibility under 329 IAC 9-8.</li> </ol>				
OWNER'S AUTHORIZED REPRESENTATIVE (Print or Type)		TITLE OF OWNER'S AUTHORIZED REPRESENTATIVE	COMPANY NAME (If Individual Leave Blank)	
Jay Ricker		Chairman	Ricker Holdings, Inc.	
SIGNATURE		DATE (MM/DD/YYYY)		
		1-2-19		
DRIVERS LICENSE NUMBER				
Not Applicable				

<b>K</b>	<b>UST OPERATOR CERTIFICATION</b>	
I swear or affirm, under penalty of perjury as specified by IC 35-44.1-2-1 and other penalties specified by IC 13-30-10 and IC 13-23-14-2, that the statements and representations in this document are true, accurate, and complete. I further certify compliance with the following requirements in accordance with 329 IAC 9-2-2(e): (1) Installation of all tanks and piping under 40 CFR 280.20. (2) Cathodic protection of steel tanks and piping under 40 CFR 280.20. (3) Release detection under 40 CFR 280 Subpart D. (4) Financial responsibility under 329 IAC 9-8.		
OPERATOR'S AUTHORIZED REPRESENTATIVE (Print or Type) <b>Jay Ricker</b>		TITLE OF OPERATOR'S AUTHORIZED REPRESENTATIVE <b>Chairman</b>
		COMPANY NAME (If Individual Leave Blank) <b>Ricker Holdings, Inc.</b>
SIGNATURE 		DATE (MM/DD/YYYY) <b>1-2-19</b>
DRIVERS LICENSE NUMBER <b>Not Applicable</b>		
<b>POTENTIALLY INTERESTED PARTIES</b>		
INTERESTED PARTY NAME		E-MAIL ADDRESS
INTERESTED PARTY NAME		E-MAIL ADDRESS
INTERESTED PARTY NAME		E-MAIL ADDRESS
<b>M</b>	<b>FINANCIAL RESPONSIBILITY</b>	
<input type="checkbox"/>	Government Entity, which does not fall under financial responsibility requirements	
<input checked="" type="checkbox"/>	I have met the financial responsibility requirements (in accordance with 329 IAC 9-8) by using one or a combination of the following mechanisms: (check all that apply). If you are using the ELTF it must be checked.	
<input type="checkbox"/>	Financial Test of Self Insurance	<input type="checkbox"/> Guarantee
<input type="checkbox"/>	Insurance and Risk Retention Group Coverage	<input type="checkbox"/> Surety Bond
<input type="checkbox"/>	Letter of Credit	<input checked="" type="checkbox"/> Excess Liability Trust Fund (State Fund)
<input type="checkbox"/>	Trust Fund	<input type="checkbox"/> Standby Trust Fund



N	<b>FACILITY SITE MAP</b>
<i>In the space below, sketch the facility (tanks, piping, tank manway locations, vents, pump islands, buildings, etc.). Include tank sizes and type of product stored. Label streets or other landmarks. Show North if direction known.</i>	



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Standard Legend			
Water Line	Electric Line		
Gas Line	Communication Line		
Sewer Line	Storm Sewer Line		
Fiber Optic Line	Overhead Line		
Monitoring Well	Soil Boring		

Legend	

Drawn By: R.N. Date: 12-17-18	Checked By: L.H. Date: 12-17-18
File No.: R100-COL3-102-0	Revision: 0
Title: <b>Aerial Image Site Map</b>	
Location: <b>Former Tom's Food and Fuel 867 E. 2nd Street Columbus, IN</b>	
Scale: AS NOTED	Figure: 1

SCALE BAR



<b>O</b>	<b>ATTRIBUTES OF UNDERGROUND STORAGE TANK</b>									
<i>Complete a separate 'Section O' portion of the form for each UST.</i>										
UST Number (IDEM Only)						Tank Manufacturer and Model				
Owner UST ID			1							
Fill Port Latitude						Fill Port Longitude				
<b>Status of Tank</b>										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
<b>UST Construction Material (Check all that apply.)</b>										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
<b>Release Detection</b>										
			Tank	Manufacturer and Model			Pipe	Manufacturer and Model		
Automatic Tank Gauging			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>				<input type="checkbox"/>			
Statistical Inventory Reconciliation			<input type="checkbox"/>				<input type="checkbox"/>			
Tightness Testing			<input type="checkbox"/>				<input type="checkbox"/>			
Groundwater Monitoring			<input type="checkbox"/>				<input type="checkbox"/>			
Automatic Line Leak Detector							<input type="checkbox"/>			
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>				<input checked="" type="checkbox"/>	Flow shut off		
<b>UST Corrosion Protection</b>										
<input type="checkbox"/>	Interior Lining	<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4		
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)			Date of Installation (mm/dd/yyyy)						
<input type="checkbox"/>	Impressed Current			Date of Installation (mm/dd/yyyy)						
<input type="checkbox"/>	Other:			Date of Installation (mm/dd/yyyy)						
<b>Containment Sumps</b>										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

***If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).***

**GSL** - Gasoline      **DSL** - Diesel      **DSB** - Diesel Containing >20% Biodiesel      **VGL** - Virgin Oil      **UOL** - Used Oil      **KER** - Kerosene  
**E85** - E85 Gasoline Blend      **E15** - E15 Gasoline Blend      **RCF** - Racing Fuel (leaded)      **AVG** - AV Gas (leaded)      **MXT** - Mixture of Substances (List Substances)      **OTH** - Other (specify)  
**HZS** - Hazardous Substance (Put CAS Number and CERCLA Name.)

Compartment Number	C-1	C-2	C-3	C-4
Substance	Kerosene			
Capacity (in gallons)	6,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins (Manufacturer and Model)				
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)				
Overfill Alarm (exterior) (Manufacturer and Model)				
Flow Restrictor (Type, Manufacturer, and Model)				
Other (Type, Manufacturer and Model)				

Piping								
Compartment Number	C-1		C-2		C-3		C-4	
Piping Installation Dates (mm/dd/yyyy)	11/01/1992							
Piping Manufacturer and Model								
Flexible Connector Manufacturer and Model								
Pipe Sealant/Adhesive Manufacturer and Model								
Submersible Turbine Pump Manufacturer and Model								
Piping Delivery Method								
Compartment Number	C-1		C-2		C-3		C-4	
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A
Piping Construction (Check all that apply.)								
Compartment Number	C-1		C-2		C-3		C-4	
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Comments								

O	ATTRIBUTES OF UNDERGROUND STORAGE TANK										
Complete a separate 'Section O' portion of the form for each UST.											
UST Number (IDEM Only)						Tank Manufacturer and Model					
Owner UST ID			2								
Fill Port Latitude						Fill Port Longitude					
Status of Tank											
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)			11/1/1992		Date Brought into Use (mm/dd/yyyy)		11/1/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)					Date Last Used (mm/dd/yyyy)			
UST Construction Material (Check all that apply.)											
<input type="checkbox"/>	Steel			<input checked="" type="checkbox"/>	Fiberglass			<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)		
<input type="checkbox"/>	Double-walled			<input type="checkbox"/>	Other:			<input type="checkbox"/>	Product stored in tank is compatible		
Release Detection											
			Tank	Manufacturer and Model			Pipe	Manufacturer and Model			
Automatic Tank Gauging			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>				<input type="checkbox"/>				
Statistical Inventory Reconciliation			<input type="checkbox"/>				<input type="checkbox"/>				
Tightness Testing			<input type="checkbox"/>				<input type="checkbox"/>				
Groundwater Monitoring			<input type="checkbox"/>				<input type="checkbox"/>				
Automatic Line Leak Detector							<input type="checkbox"/>				
Manual Tank Gauging			<input type="checkbox"/>								
Inventory Control			<input type="checkbox"/>								
Other:			<input type="checkbox"/>				<input checked="" type="checkbox"/>	flow shut off			
UST Corrosion Protection											
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4		
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)			
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)						
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)						
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)						
Containment Sumps											
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model							
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model							
<input type="checkbox"/>	Other:			Manufacturer and Model							
Number of Sumps for this Tank											

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

*If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).*

**GSL** - Gasoline      **DSL** - Diesel      **DSB** - Diesel Containing >20% Biodiesel      **VGL** - Virgin Oil      **UOL** - Used Oil      **KER** - Kerosene  
**E85** - E85 Gasoline Blend      **E15** - E15 Gasoline Blend      **RCF** - Racing Fuel (lead)      **AVG** - AV Gas (lead)      **MXT** - Mixture of Substances (List Substances)      **OTH** - Other (specify)  
**HZS** - Hazardous Substance (Put CAS Number and CERCLA Name.)

Compartment Number	C-1	C-2	C-3	C-4
Substance	DSL			
Capacity (in gallons)	10,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins (Manufacturer and Model)				
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)				
Overfill Alarm (exterior) (Manufacturer and Model)				
Flow Restrictor (Type, Manufacturer, and Model)				
Other (Type, Manufacturer and Model)				

Piping								
Compartment Number	C-1		C-2		C-3		C-4	
Piping Installation Dates (mm/dd/yyyy)	11/01/1992							
Piping Manufacturer and Model								
Flexible Connector Manufacturer and Model								
Pipe Sealant/Adhesive Manufacturer and Model								
Submersible Turbine Pump Manufacturer and Model								
Piping Delivery Method								
Compartment Number	C-1		C-2		C-3		C-4	
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A
Piping Construction (Check all that apply.)								
Compartment Number	C-1		C-2		C-3		C-4	
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Comments								



O ATTRIBUTES OF UNDERGROUND STORAGE TANK										
Complete a separate 'Section O' portion of the form for each UST.										
UST Number (IDEM Only)						Tank Manufacturer and Model				
Owner UST ID			3							
Fill Port Latitude						Fill Port Longitude				
Status of Tank										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
UST Construction Material (Check all that apply.)										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
Release Detection										
		Tank		Manufacturer and Model		Pipe		Manufacturer and Model		
Automatic Tank Gauging		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				
Interstitial Monitoring (required for new or replaced tanks or piping)		<input type="checkbox"/>				<input type="checkbox"/>				
Statistical Inventory Reconciliation		<input type="checkbox"/>				<input type="checkbox"/>				
Tightness Testing		<input type="checkbox"/>				<input type="checkbox"/>				
Groundwater Monitoring		<input type="checkbox"/>				<input type="checkbox"/>				
Automatic Line Leak Detector						<input type="checkbox"/>				
Manual Tank Gauging		<input type="checkbox"/>								
Inventory Control		<input type="checkbox"/>								
Other:		<input type="checkbox"/>				<input checked="" type="checkbox"/>		flow shut off		
UST Corrosion Protection										
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4	
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)					
Containment Sumps										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

*If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).*

<b>GSL</b> - Gasoline	<b>DSL</b> - Diesel	<b>DSB</b> - Diesel Containing >20% Biodiesel	<b>VGL</b> - Virgin Oil	<b>UOL</b> - Used Oil	<b>KER</b> - Kerosene
<b>E85</b> - E85 Gasoline Blend	<b>E15</b> - E15 Gasoline Blend	<b>RCF</b> - Racing Fuel (leaded)	<b>AVG</b> - AV Gas (leaded)	<b>MXT</b> - Mixture of Substances (List Substances)	<b>OTH</b> - Other (specify)
<b>HZS</b> - Hazardous Substance (Put CAS Number and CERCLA Name.)					

Compartment Number	C-1	C-2	C-3	C-4
Substance	DSL			
Capacity (in gallons)	20,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins (Manufacturer and Model)				
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)				
Overfill Alarm (exterior) (Manufacturer and Model)				
Flow Restrictor (Type, Manufacturer, and Model)				
Other (Type, Manufacturer and Model)				

Piping							
Compartment Number	C-1		C-2		C-3		C-4
Piping Installation Dates (mm/dd/yyyy)	11/01/1992						
Piping Manufacturer and Model							
Flexible Connector Manufacturer and Model							
Pipe Sealant/Adhesive Manufacturer and Model							
Submersible Turbine Pump Manufacturer and Model							
Piping Delivery Method							
Compartment Number	C-1		C-2		C-3		C-4
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Piping Construction (Check all that apply.)							
Compartment Number	C-1		C-2		C-3		C-4
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Comments							

O ATTRIBUTES OF UNDERGROUND STORAGE TANK										
Complete a separate 'Section O' portion of the form for each UST.										
UST Number (IDEM Only)					Tank Manufacturer and Model					
Owner UST ID			4							
Fill Port Latitude					Fill Port Longitude					
Status of Tank										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
UST Construction Material (Check all that apply.)										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
Release Detection										
			Tank	Manufacturer and Model		Pipe	Manufacturer and Model			
Automatic Tank Gauging			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>			<input type="checkbox"/>				
Statistical Inventory Reconciliation			<input type="checkbox"/>			<input type="checkbox"/>				
Tightness Testing			<input type="checkbox"/>			<input type="checkbox"/>				
Groundwater Monitoring			<input type="checkbox"/>			<input type="checkbox"/>				
Automatic Line Leak Detector						<input type="checkbox"/>				
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>			<input checked="" type="checkbox"/>	Flow shut off			
UST Corrosion Protection										
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4	
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)					
Containment Sumps										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

*If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).*

**GSL** - Gasoline      **DSL** - Diesel      **DSB** - Diesel Containing >20% Biodiesel      **VGL** - Virgin Oil      **UOL** - Used Oil      **KER** - Kerosene  
**E85** - E85 Gasoline Blend      **E15** - E15 Gasoline Blend      **RCF** - Racing Fuel (leaded)      **AVG** - AV Gas (leaded)      **MXT** - Mixture of Substances (List Substances)      **OTH** - Other (specify)  
**HZS** - Hazardous Substance (Put CAS Number and CERCLA Name.)

Compartment Number	C-1	C-2	C-3	C-4
Substance	DSL			
Capacity (in gallons)	20,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins (Manufacturer and Model)				
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)				
Overfill Alarm (exterior) (Manufacturer and Model)				
Flow Restrictor (Type, Manufacturer, and Model)				
Other (Type, Manufacturer and Model)				

Piping							
Compartment Number	C-1		C-2		C-3		C-4
Piping Installation Dates (mm/dd/yyyy)	11/01/1992						
Piping Manufacturer and Model							
Flexible Connector Manufacturer and Model							
Pipe Sealant/Adhesive Manufacturer and Model							
Submersible Turbine Pump Manufacturer and Model							
Piping Delivery Method							
Compartment Number	C-1		C-2		C-3		C-4
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/> Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/> European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/> American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/> N/A
Piping Construction (Check all that apply.)							
Compartment Number	C-1		C-2		C-3		C-4
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Comments							

O ATTRIBUTES OF UNDERGROUND STORAGE TANK										
Complete a separate 'Section O' portion of the form for each UST.										
UST Number (IDEM Only)						Tank Manufacturer and Model				
Owner UST ID			5							
Fill Port Latitude						Fill Port Longitude				
Status of Tank										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
UST Construction Material (Check all that apply.)										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
Release Detection										
			Tank	Manufacturer and Model		Pipe	Manufacturer and Model			
Automatic Tank Gauging			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>			<input type="checkbox"/>				
Statistical Inventory Reconciliation			<input type="checkbox"/>			<input type="checkbox"/>				
Tightness Testing			<input type="checkbox"/>			<input type="checkbox"/>				
Groundwater Monitoring			<input type="checkbox"/>			<input type="checkbox"/>				
Automatic Line Leak Detector						<input type="checkbox"/>				
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>			<input checked="" type="checkbox"/>	Flow Shut Off			
UST Corrosion Protection										
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4	
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)					
Containment Sumps										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

***If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).***

**GSL** - Gasoline      **DSL** - Diesel      **DSB** - Diesel Containing >20% Biodiesel      **VGL** - Virgin Oil      **UOL** - Used Oil      **KER** - Kerosene  
**E85** - E85 Gasoline Blend      **E15** - E15 Gasoline Blend      **RCF** - Racing Fuel (leaded)      **AVG** - AV Gas (leaded)      **MXT** - Mixture of Substances (*List Substances*)      **OTH** - Other (*specify*)  
**HZS** - Hazardous Substance (*Put CAS Number and CERCLA Name.*)

Compartment Number	C-1	C-2	C-3	C-4
Substance	DSL			
Capacity ( <i>in gallons</i> )	20,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins ( <i>Manufacturer and Model</i> )				
Auto Shutoff (fill pipe) ( <i>Type, Manufacturer, and Model</i> )				
Overfill Alarm (exterior) ( <i>Manufacturer and Model</i> )				
Flow Restrictor ( <i>Type, Manufacturer, and Model</i> )				
Other ( <i>Type, Manufacturer and Model</i> )				



Piping								
Compartment Number	C-1		C-2		C-3		C-4	
Piping Installation Dates (mm/dd/yyyy)	11/01/1992							
Piping Manufacturer and Model								
Flexible Connector Manufacturer and Model								
Pipe Sealant/Adhesive Manufacturer and Model								
Submersible Turbine Pump Manufacturer and Model								
Piping Delivery Method								
Compartment Number	C-1		C-2		C-3		C-4	
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A
Piping Construction (Check all that apply.)								
Compartment Number	C-1		C-2		C-3		C-4	
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Comments								

O ATTRIBUTES OF UNDERGROUND STORAGE TANK										
Complete a separate 'Section O' portion of the form for each UST.										
UST Number (IDEM Only)						Tank Manufacturer and Model				
Owner UST ID			6							
Fill Port Latitude						Fill Port Longitude				
Status of Tank										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
UST Construction Material (Check all that apply.)										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
Release Detection										
			Tank	Manufacturer and Model		Pipe	Manufacturer and Model			
Automatic Tank Gauging			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>			<input type="checkbox"/>				
Statistical Inventory Reconciliation			<input type="checkbox"/>			<input type="checkbox"/>				
Tightness Testing			<input type="checkbox"/>			<input type="checkbox"/>				
Groundwater Monitoring			<input type="checkbox"/>			<input type="checkbox"/>				
Automatic Line Leak Detector						<input type="checkbox"/>				
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>			<input checked="" type="checkbox"/>	Flow shut off			
UST Corrosion Protection										
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4	
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)					
Containment Sumps										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

*If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).*

**GSL** - Gasoline      **DSL** - Diesel      **DSB** - Diesel Containing >20% Biodiesel      **VGL** - Virgin Oil      **UOL** - Used Oil      **KER** - Kerosene  
**E85** - E85 Gasoline Blend      **E15** - E15 Gasoline Blend      **RCF** - Racing Fuel (lead)      **AVG** - AV Gas (lead)      **MXT** - Mixture of Substances (List Substances)      **OTH** - Other (specify)  
**HZS** - Hazardous Substance (Put CAS Number and CERCLA Name.)

Compartment Number	C-1	C-2	C-3	C-4
Substance	DSL			
Capacity (in gallons)	20,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins (Manufacturer and Model)				
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)				
Overfill Alarm (exterior) (Manufacturer and Model)				
Flow Restrictor (Type, Manufacturer, and Model)				
Other (Type, Manufacturer and Model)				

Piping								
Compartment Number	C-1		C-2		C-3		C-4	
Piping Installation Dates (mm/dd/yyyy)	11/01/1992							
Piping Manufacturer and Model								
Flexible Connector Manufacturer and Model								
Pipe Sealant/Adhesive Manufacturer and Model								
Submersible Turbine Pump Manufacturer and Model								
Piping Delivery Method								
Compartment Number	C-1		C-2		C-3		C-4	
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A
Piping Construction (Check all that apply.)								
Compartment Number	C-1		C-2		C-3		C-4	
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Comments								

O ATTRIBUTES OF UNDERGROUND STORAGE TANK										
Complete a separate 'Section O' portion of the form for each UST.										
UST Number (IDEM Only)						Tank Manufacturer and Model				
Owner UST ID			7							
Fill Port Latitude						Fill Port Longitude				
Status of Tank										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
UST Construction Material (Check all that apply.)										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
Release Detection										
			Tank		Manufacturer and Model		Pipe		Manufacturer and Model	
Automatic Tank Gauging			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>				<input type="checkbox"/>			
Statistical Inventory Reconciliation			<input type="checkbox"/>				<input type="checkbox"/>			
Tightness Testing			<input type="checkbox"/>				<input type="checkbox"/>			
Groundwater Monitoring			<input type="checkbox"/>				<input type="checkbox"/>			
Automatic Line Leak Detector							<input type="checkbox"/>			
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>				<input checked="" type="checkbox"/>		Flow shut off	
UST Corrosion Protection										
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4	
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)					
Containment Sumps										
<input type="checkbox"/>	Under Dispenser Containment Sumps				Manufacturer and Model					
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps				Manufacturer and Model					
<input type="checkbox"/>	Other:				Manufacturer and Model					
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

*If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).*

<b>GSL</b> - Gasoline	<b>DSL</b> - Diesel	<b>DSB</b> - Diesel Containing >20% Biodiesel	<b>VGL</b> - Virgin Oil	<b>UOL</b> - Used Oil	<b>KER</b> - Kerosene
<b>E85</b> - E85 Gasoline Blend	<b>E15</b> - E15 Gasoline Blend	<b>RCF</b> - Racing Fuel (lead)	<b>AVG</b> - AV Gas (lead)	<b>MXT</b> - Mixture of Substances (List Substances)	<b>OTH</b> - Other (specify)
<b>HZS</b> - Hazardous Substance (Put CAS Number and CERCLA Name.)					

Compartment Number	C-1	C-2	C-3	C-4
Substance	DSL			
Capacity (in gallons)	20,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins (Manufacturer and Model)				
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)				
Overfill Alarm (exterior) (Manufacturer and Model)				
Flow Restrictor (Type, Manufacturer, and Model)				
Other (Type, Manufacturer and Model)				

Piping							
Compartment Number	C-1		C-2		C-3		C-4
Piping Installation Dates (mm/dd/yyyy)	11/01/1992						
Piping Manufacturer and Model							
Flexible Connector Manufacturer and Model							
Pipe Sealant/Adhesive Manufacturer and Model							
Submersible Turbine Pump Manufacturer and Model							
Piping Delivery Method							
Compartment Number	C-1		C-2		C-3		C-4
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/> Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/> European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/> American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/> N/A
Piping Construction (Check all that apply.)							
Compartment Number	C-1		C-2		C-3		C-4
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Comments							

O ATTRIBUTES OF UNDERGROUND STORAGE TANK										
Complete a separate 'Section O' portion of the form for each UST.										
UST Number (IDEM Only)					Tank Manufacturer and Model					
Owner UST ID			8							
Fill Port Latitude					Fill Port Longitude					
Status of Tank										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/1/1992		Date Brought into Use (mm/dd/yyyy)		11/1/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
UST Construction Material (Check all that apply.)										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
Release Detection										
			Tank	Manufacturer and Model			Pipe	Manufacturer and Model		
Automatic Tank Gauging			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>				<input type="checkbox"/>			
Statistical Inventory Reconciliation			<input type="checkbox"/>				<input type="checkbox"/>			
Tightness Testing			<input type="checkbox"/>				<input type="checkbox"/>			
Groundwater Monitoring			<input type="checkbox"/>				<input type="checkbox"/>			
Automatic Line Leak Detector							<input type="checkbox"/>			
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>				<input checked="" type="checkbox"/>	flow shut off		
UST Corrosion Protection										
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4	
			Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)	
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)					
Containment Sumps										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										



<b>CERTIFICATION OF INSTALLATION</b> <i>(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)</i>					
<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	
<b>Substance Currently Stored in UST</b>					
<i>If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).</i>					
<b>GSL</b> - Gasoline <b>DSL</b> - Diesel <b>DSB</b> - Diesel Containing >20% Biodiesel <b>VGL</b> - Virgin Oil <b>UOL</b> - Used Oil <b>KER</b> - Kerosene <b>E85</b> - E85 Gasoline Blend <b>E15</b> - E15 Gasoline Blend <b>RCF</b> - Racing Fuel (lead) <b>AVG</b> - AV Gas (lead) <b>MXT</b> - Mixture of Substances (List Substances) <b>OTH</b> - Other (specify) <b>HZS</b> - Hazardous Substance (Put CAS Number and CERCLA Name.)					
Compartment Number	C-1	C-2	C-3	C-4	
Substance	GSL				
Capacity (in gallons)	20,000				
Max Ethanol %					
Max Biodiesel %					
<b>Spill and Overfill Protection</b>					
Compartment Number	C-1	C-2	C-3	C-4	
Catchment Basins (Manufacturer and Model)					
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)					
Overfill Alarm (exterior) (Manufacturer and Model)					
Flow Restrictor (Type, Manufacturer, and Model)					
Other (Type, Manufacturer and Model)					

Piping								
Compartment Number	C-1		C-2		C-3		C-4	
Piping Installation Dates (mm/dd/yyyy)	11/01/1992							
Piping Manufacturer and Model								
Flexible Connector Manufacturer and Model								
Pipe Sealant/Adhesive Manufacturer and Model								
Submersible Turbine Pump Manufacturer and Model								
Piping Delivery Method								
Compartment Number	C-1		C-2		C-3		C-4	
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A
Piping Construction (Check all that apply.)								
Compartment Number	C-1		C-2		C-3		C-4	
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Comments								

<b>O</b>	<b>ATTRIBUTES OF UNDERGROUND STORAGE TANK</b>									
<i>Complete a separate 'Section O' portion of the form for each UST.</i>										
UST Number (IDEM Only)						Tank Manufacturer and Model				
Owner UST ID			9							
Fill Port Latitude						Fill Port Longitude				
<b>Status of Tank</b>										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
<b>UST Construction Material (Check all that apply.)</b>										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
<b>Release Detection</b>										
			Tank	Manufacturer and Model			Pipe	Manufacturer and Model		
Automatic Tank Gauging			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>				<input type="checkbox"/>			
Statistical Inventory Reconciliation			<input type="checkbox"/>				<input type="checkbox"/>			
Tightness Testing			<input type="checkbox"/>				<input type="checkbox"/>			
Groundwater Monitoring			<input type="checkbox"/>				<input type="checkbox"/>			
Automatic Line Leak Detector							<input type="checkbox"/>			
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>				<input checked="" type="checkbox"/>	flow shut off		
<b>UST Corrosion Protection</b>										
<input type="checkbox"/>	Interior Lining		<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4	
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Impressed Current				Date of Installation (mm/dd/yyyy)					
<input type="checkbox"/>	Other:				Date of Installation (mm/dd/yyyy)					
<b>Containment Sumps</b>										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

*If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).*

<b>GSL</b> - Gasoline	<b>DSL</b> - Diesel	<b>DSB</b> - Diesel Containing >20% Biodiesel	<b>VGL</b> - Virgin Oil	<b>UOL</b> - Used Oil	<b>KER</b> - Kerosene
<b>E85</b> - E85 Gasoline Blend	<b>E15</b> - E15 Gasoline Blend	<b>RCF</b> - Racing Fuel (lead)	<b>AVG</b> - AV Gas (lead)	<b>MXT</b> - Mixture of Substances (List Substances)	<b>OTH</b> - Other (specify)
<b>HZS</b> - Hazardous Substance (Put CAS Number and CERCLA Name.)					

Compartment Number	C-1	C-2	C-3	C-4
Substance	GSL			
Capacity (in gallons)	20,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins (Manufacturer and Model)				
Auto Shutoff (fill pipe) (Type, Manufacturer, and Model)				
Overfill Alarm (exterior) (Manufacturer and Model)				
Flow Restrictor (Type, Manufacturer, and Model)				
Other (Type, Manufacturer and Model)				

Piping								
Compartment Number	C-1		C-2		C-3		C-4	
Piping Installation Dates (mm/dd/yyyy)	11/01/1992							
Piping Manufacturer and Model								
Flexible Connector Manufacturer and Model								
Pipe Sealant/Adhesive Manufacturer and Model								
Submersible Turbine Pump Manufacturer and Model								
Piping Delivery Method								
Compartment Number	C-1		C-2		C-3		C-4	
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A
Piping Construction (Check all that apply.)								
Compartment Number	C-1		C-2		C-3		C-4	
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Comments								

<b>O</b>	<b>ATTRIBUTES OF UNDERGROUND STORAGE TANK</b>									
<i>Complete a separate 'Section O' portion of the form for each UST.</i>										
UST Number (IDEM Only)						Tank Manufacturer and Model				
Owner UST ID			10							
Fill Port Latitude						Fill Port Longitude				
<b>Status of Tank</b>										
<input checked="" type="checkbox"/>	Currently in Use		Date of Installation (mm/dd/yyyy)		11/01/1992		Date Brought into Use (mm/dd/yyyy)		11/01/1992	
<input type="checkbox"/>	Temporarily Closed		Date of Installation (mm/dd/yyyy)				Date Last Used (mm/dd/yyyy)			
<b>UST Construction Material (Check all that apply.)</b>										
<input type="checkbox"/>	Steel		<input checked="" type="checkbox"/>	Fiberglass		<input type="checkbox"/>	Steel Clad (Fiberglass Jacket)			
<input type="checkbox"/>	Double-walled		<input type="checkbox"/>	Other:		<input type="checkbox"/>	Product stored in tank is compatible			
<b>Release Detection</b>										
			Tank	Manufacturer and Model			Pipe	Manufacturer and Model		
Automatic Tank Gauging			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
Interstitial Monitoring (required for new or replaced tanks or piping)			<input type="checkbox"/>				<input type="checkbox"/>			
Statistical Inventory Reconciliation			<input type="checkbox"/>				<input type="checkbox"/>			
Tightness Testing			<input type="checkbox"/>				<input type="checkbox"/>			
Groundwater Monitoring			<input type="checkbox"/>				<input type="checkbox"/>			
Automatic Line Leak Detector							<input type="checkbox"/>			
Manual Tank Gauging			<input type="checkbox"/>							
Inventory Control			<input type="checkbox"/>							
Other:			<input type="checkbox"/>				<input checked="" type="checkbox"/>	Flow shut off		
<b>UST Corrosion Protection</b>										
<input type="checkbox"/>	Interior Lining	<input type="checkbox"/> Compartment 1		<input type="checkbox"/> Compartment 2		<input type="checkbox"/> Compartment 3		<input type="checkbox"/> Compartment 4		
		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		Install Date (mm/dd/yyyy)		
<input type="checkbox"/>	Sacrificial Anodes (Galvanic)			Date of Installation (mm/dd/yyyy)						
<input type="checkbox"/>	Impressed Current			Date of Installation (mm/dd/yyyy)						
<input type="checkbox"/>	Other:			Date of Installation (mm/dd/yyyy)						
<b>Containment Sumps</b>										
<input type="checkbox"/>	Under Dispenser Containment Sumps			Manufacturer and Model						
<input type="checkbox"/>	Submersible Turbine Pump (STP) Sumps			Manufacturer and Model						
<input type="checkbox"/>	Other:			Manufacturer and Model						
Number of Sumps for this Tank										

**CERTIFICATION OF INSTALLATION** *(Complete for UST Systems Installed after December 22, 1988 and for Airport Hydrant Distribution Systems and Field-Constructed USTs Installed After October 13, 2015.)*

<input type="checkbox"/>	Installation Inspected by a Registered Engineer	Registration ID		Registration Date (mm/dd/yyyy)	
<input type="checkbox"/>	Manufacturer's Installation Checklists Have Been Completed and Included.		<input type="checkbox"/>	Installer Certified by Tank and Piping Manufacturer.	
<input type="checkbox"/>	Work Inspected by Indiana Department of Homeland Security / Division of Fire and Building Safety.			Inspection Date (mm/dd/yyyy)	

**Substance Currently Stored in UST**

*If tanks are NOT compartmented, complete C-1 only. If the tanks are compartmented, list compartment sizes and substances stored (C-1, C-2, C-3, C-4).*

**GSL** - Gasoline      **DSL** - Diesel      **DSB** - Diesel Containing >20% Biodiesel      **VGL** - Virgin Oil      **UOL** - Used Oil      **KER** - Kerosene  
**E85** - E85 Gasoline Blend      **E15** - E15 Gasoline Blend      **RCF** - Racing Fuel (lead)      **AVG** - AV Gas (lead)      **MXT** - Mixture of Substances (*List Substances*)      **OTH** - Other (*specify*)

**HZS** - Hazardous Substance (*Put CAS Number and CERCLA Name.*)

Compartment Number	C-1	C-2	C-3	C-4
Substance	DSL			
Capacity ( <i>in gallons</i> )	20,000			
Max Ethanol %				
Max Biodiesel %				

**Spill and Overfill Protection**

Compartment Number	C-1	C-2	C-3	C-4
Catchment Basins ( <i>Manufacturer and Model</i> )				
Auto Shutoff (fill pipe) ( <i>Type, Manufacturer, and Model</i> )				
Overfill Alarm (exterior) ( <i>Manufacturer and Model</i> )				
Flow Restrictor ( <i>Type, Manufacturer, and Model</i> )				
Other ( <i>Type, Manufacturer and Model</i> )				

Piping								
Compartment Number	C-1		C-2		C-3		C-4	
Piping Installation Dates (mm/dd/yyyy)	11/01/1992							
Piping Manufacturer and Model								
Flexible Connector Manufacturer and Model								
Pipe Sealant/Adhesive Manufacturer and Model								
Submersible Turbine Pump Manufacturer and Model								
Piping Delivery Method								
Compartment Number	C-1		C-2		C-3		C-4	
	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized	<input type="checkbox"/>	Pressurized
	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction	<input type="checkbox"/>	European Suction
	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction	<input type="checkbox"/>	American Suction
	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A
Piping Construction (Check all that apply.)								
Compartment Number	C-1		C-2		C-3		C-4	
Fiberglass Reinforced Plastic	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Flexible Composite / Plastic	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Airport Hydrant Piping	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Copper	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (sacrificial anodes)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Cathodically Protected (impressed current)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Secondary Containment	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Double-walled	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Manifolded	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Other:	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Comments								



**RE-RECORDED TO CORRECT GRANTEE NAME**

**QUITCLAIM DEED**

THIS INDENTURE WITNESSETH, that **RICKER OIL COMPANY, INC.**, an Indiana corporation ("**Grantor**"), QUITCLAIMS AND CONVEYS to **RICKER HOLDINGS, INC.**, a Delaware corporation ("**Grantee**"), for the sum of Zero Dollars (\$0.00), the receipt and sufficiency of which are hereby acknowledged, all of its rights, title and interest in and to that certain real estate located in Bartholomew County, Indiana, more particularly described on **Exhibit A** attached hereto and made a part hereof (the "Real Estate") and commonly known as 867 2<sup>nd</sup> Street, Columbus, Indiana 47201.

This conveyance is subject to any and all easements, agreements, liens, covenants, assessments, judgments, encumbrances and restrictions of record taxes (which are a lien on the Real Estate but not yet due and payable), highways, rights of way, and matters of survey.

The undersigned person executing this Quitclaim Deed on behalf of Grantor hereby represents and certifies that he has been fully empowered and duly authorized by all necessary actions to execute and deliver this Quitclaim Deed; that Grantor has full capacity to convey the Real Estate; and that all necessary action for the making of such conveyance has been taken or done.

IN WITNESS WHEREOF, Grantor has caused this Quitclaim Deed to be executed and delivered this 29th day of November, 2018.

**QUITCLAIM DEED**

THIS INDENTURE WITNESSETH, that **RICKER OIL COMPANY, INC.**, an Indiana corporation ("**Grantor**"), QUITCLAIMS AND CONVEYS to **RICKER HOLDINGS, LLC**, a Delaware limited liability company ("**Grantee**"), for the sum of Zero Dollars (\$0.00), the receipt and sufficiency of which are hereby acknowledged, all of its rights, title and interest in and to that certain real estate located in Bartholomew County, Indiana, more particularly described on **Exhibit A** attached hereto and made a part hereof (the "Real Estate") and commonly known as 867 2<sup>nd</sup> Street, Columbus, Indiana 47201.

This conveyance is subject to any and all easements, agreements, liens, covenants, assessments, judgments, encumbrances and restrictions of record taxes (which are a lien on the Real Estate but not yet due and payable), highways, rights of way, and matters of survey.

The undersigned person executing this Quitclaim Deed on behalf of Grantor hereby represents and certifies that he has been fully empowered and duly authorized by all necessary actions to execute and deliver this Quitclaim Deed; that Grantor has full capacity to convey the Real Estate; and that all necessary action for the making of such conveyance has been taken or done.

IN WITNESS WHEREOF, Grantor has caused this Quitclaim Deed to be executed and delivered this 29th day of November, 2018.

GRANTOR:

RICKER OIL COMPANY, INC.  
an Indiana corporation

By:   
JAY B. RICKER, Chairman

NO SALES DISCLOSURE REQUIRED  
BARTHOLOMEW CO. ASSESSOR

STATE OF INDIANA       )  
   ) SS:  
 COUNTY OF MARION       )

Before me, a Notary Public in and for the State of Indiana, personally appeared Jay B. Ricker, Chairman of Ricker Oil Company, Inc., who acknowledged the execution of the foregoing Quitclaim Deed for, and on behalf of, said company.

Witness my hand and Notarial Seal this 29th day of November, 2018.



*[Signature]*  
 Notary Public – Signature

Jessica Contos  
 Notary Public – Printed

My commission expires: April 8, 2024

My County of Residence: Marion

Grantee's address and send tax statements to: Ricker Holdings, <sup>Inc.</sup>~~LLC~~, 30 W. 11<sup>th</sup> Street, Anderson, Indiana 46016.

This instrument was prepared by: Alexandra Sylvia, Esq., Plews Shadley Racher & Braun LLP, 1346 N. Delaware Street, Indianapolis, IN 46202.

I affirm, under penalties of perjury, that I have taken reasonable care to redact each Social Security Number in this document, unless required by law. /s/ Alexandra S. Sylvia

**EXHIBIT A**

**LEGAL DESCRIPTION**

Lot Numbered One (1) in Premier Ag Co-Op, Inc. Minor Plat as recorded in Plat Book "Q", page 320B, in the Office of the Recorder of Bartholomew County, Indiana.

Parcel No. 03-95-25-110-001.101-005

More commonly known as: 867 2<sup>nd</sup> Street, Columbus, Indiana 47201

**DULY ENTERED FOR  
TAXATION SUBJECT TO FINAL  
ACCEPTANCE FOR TRANSFER**

**NOV 30 2018**

**BARTHOLOMEW COUNTY  
AUDITOR'S OFFICE**

DISTRIBUTION AGREEMENT

THIS DISTRIBUTION AGREEMENT (this "Agreement"), dated as of September 12, 2018, is by and between Ricker Oil Company, Inc., an Indiana corporation (the "Distributor"), and Ricker Holdings, Inc., a Delaware corporation (the "Recipient").

WHEREAS, the Distributor owns certain assets as described on Exhibit A hereto (the "Distributed Property");

WHEREAS, the Distributor was disregarded as an entity separate from the Recipient for U.S. federal income tax purposes as described in United States Treasury Regulation Section 301.7701-2(b)(1)(ii) such that the Distribution (as defined below) is intended to be disregarded for U.S. federal income tax purposes; and

WHEREAS, the parties hereto desire that the Distributor distribute, transfer, assign and deliver to the Recipient, and the Recipient accept, assume and receive from the Distributor, all of the Distributor's right, title and interest in and to the Distributed Property, representing a partial distribution of the Distributor's property to its sole shareholder.

NOW, THEREFORE, in consideration of the foregoing, and the mutual covenants stated herein, and other consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound, the parties hereto hereby agree as follows:

1. Distribution of the Distributed Property. The Distributor hereby distributes, transfers, assigns and delivers to the Recipient, and the Recipient hereby accepts, acquires, assumes and receives from the Distributor, all of the Distributor's right, title and interest in and to the Distributed Property (the "Distribution"). Concurrently with the execution and delivery hereof, the Distributor shall deliver to the Recipient for recordation (at the Recipient's sole cost and expense) with the appropriate governmental authority a quitclaim deed in the form attached hereto as Exhibit B and a transfer tax declaration in customary form. The Recipient shall be responsible for, and shall pay when due, any and all transfer taxes payable in connection with the Distribution of the Distributed Property to the Recipient.

2. Miscellaneous.

(a) Further Assurances. Upon the request of either party hereto, the other party hereto shall, without further consideration, execute and deliver, or cause to be executed and delivered, such other instruments of distribution, conveyance, transfer, assignment and confirmation, and shall take, or cause to be taken, such further or other actions as the other party hereto may deem necessary or desirable to carry out the intent and purposes of this Agreement and to consummate and give effect to the transactions contemplated hereby.

(b) Binding Effect on Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, executors, administrators, successors, legal representatives and assigns. This Agreement may not be assigned by a party hereto without the prior written consent of the other party hereto.

(c) Entire Agreement. This Agreement, together with the other agreements referred to herein, embodies the complete agreement among the parties hereto with respect to the subject matter hereof and supersedes and preempts any prior understandings, agreements or representations by or among the parties, written or oral, which may have related to the subject matter hereof in any way.

(d) Counterparts; Facsimile Signatures. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original as against any party whose signature appears thereon, and all of which, together, shall constitute one and the same instrument. Signatures transmitted by facsimile and electronic copy shall be binding.

(e) Governing Law; Jurisdiction. This Agreement shall be governed by and construed in accordance with the internal laws of the State of Delaware without giving effect to any choice or conflict of laws provision or rule that would cause the application of the laws of any other jurisdiction. Each of the parties agrees that any action, claim or proceeding arising out of or relating to this Agreement will be brought only in the state or federal courts of the State of Delaware, and each of the parties hereto submits to the exclusive jurisdiction of such courts.

(f) WAIVER OF JURY TRIAL. AS A SPECIFICALLY BARGAINED FOR INDUCEMENT FOR EACH OF THE PARTIES HERETO TO ENTER INTO THIS AGREEMENT (AFTER HAVING THE OPPORTUNITY TO CONSULT WITH COUNSEL), EACH PARTY WAIVES THE RIGHT TO TRIAL BY JURY IN ANY LAWSUIT OR PROCEEDING RELATING TO OR ARISING ANY WAY FROM THIS AGREEMENT OR THE MATTERS CONTEMPLATED THEREBY.

(g) Amendment and Modification. This Agreement or any term hereof may be changed, waived, discharged or terminated only by an agreement in writing signed by the party against which such change, waiver, discharge or termination is sought to be enforced.

\* \* \* \* \*

IN WITNESS WHEREOF, the undersigned parties have executed and delivered this Distribution Agreement as of the date first set forth above.

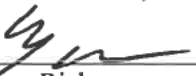
**THE DISTRIBUTOR:**

**RICKER OIL COMPANY, INC.**

By:   
Name: Quinn Ricker  
Its: President and CEO

**THE RECIPIENT:**

**RICKER HOLDINGS, INC.**

By:   
Name: Quinn Ricker  
Its: President and CEO

## Distributed Property

[illegible]





[REDACTED]

■

[REDACTED]

33. Any and all rights of the Distributor under, to, or in respect of the Distributor's November 23, 2016 recording of its Ricker Judgment in the Bartholomew County Foreign Judgment Book, which specifically referenced 867 2nd Street, Columbus, Indiana 47201, owned by one of Patel's shell entities, Patel 867 Realty, LLC.

■

[REDACTED]

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[illegible]



***Procedures to Request a Determination of Petroleum Site Eligibility  
required for U. S. EPA Brownfield Grants***

When requesting a petroleum eligibility determination from the Indiana Department of Environmental Management (IDEM), please provide written responses to the items listed below. If you are unable to provide the information related to any of the items, please state why that information is unavailable. Requests and/or questions should be emailed to Michele Oertel, Indiana Brownfields Program Federal Funding & Community Relations Coordinator, at [moertel@ifa.IN.gov](mailto:moertel@ifa.IN.gov), and to Andrea Robertson, Indiana Brownfields Program Senior Environmental Manager, at [aroberts@ifa.IN.gov](mailto:aroberts@ifa.IN.gov). Subsequent to its review of a request, the IDEM will provide a written response determining eligibility for use of federal grant funds on the site. Further information regarding petroleum eligibility determinations may be found in the U.S. EPA's Brownfields Assessment, Revolving Loan Fund and Cleanup Grant Guidelines. The respective guidelines for the three types of U.S. EPA grants are available on the web at: <http://www.epa.gov/brownfields/applicat.htm>.

---

**Site Name(s):** Papa's Deli & People Ready

**Site Address:** 819 & 821 Third Street, Columbus, Indiana 47201

**Assessment or cleanup activities:** Phase I & Phase II ESAs

**Letter recipient**

**Name:** Ms. Mary K. Ferdon

**Affiliation:** City of Columbus, Executive Director of Administration & Community Development

**Address:** 123 Washington Street, Columbus, IN 47201

**Contact Information:** 812-376-2527; [mferdon@columbus.in.gov](mailto:mferdon@columbus.in.gov)

The following information must be provided in order for the IDEM to make a petroleum eligibility determination:

**1. Site Description.**

- a) Site name(s): "Papa's Deli", "People Ready", "Gary Davis Music Makers Store", "Kiel Bros Oil Co, Inc. (Bulk Plant)", "Jung Brewing Co's Beer Depot", "Standard Oil Co.", "Cleveland, Cincinnati, Chicago and St. Louis Railway (CCC & StL)".
- b) Site address: 819 & 821 Third Street, Columbus, Indiana 47201.
- c) Whether this site is contaminated by petroleum or hazardous substances: Site potentially is contaminated primarily by petroleum products.
- d) Operational history and current use(s): Former railway depot, former brewers depot & warehouses, former stock pen, former bulk petroleum storage facility, former music store, current deli/restaurant, current staffing agency offices.

e) Environmental concerns: Potential historical leaking ASTs; potential historical releases of petroleum products, solvents, metals.

2. **Previous Assessments.** None known. No information regarding previous assessments found in the IDEM VFC.

3. **Areas of Concern.** Site is listed on Sanborn maps and city directories as a bulk petroleum facility. The years that the property operated as a bulk petroleum facility are approximately as early as 1898 through at least 1966. The location of historical oil ASTs is thought to be mainly on the east and southeast of the Subject Site although the possibility of additional tanks being present on other parts of the site cannot be ruled out.

4. **Current and Immediate Past Owners.** According to Bartholomew County GIS data the subject site consists of two parcels (#03-95-24-440-006.400-005 & #03-95-25-110-000.700-005).

1) Gary Davis Music Makers Store – 04/07/1980 through 12/30/2002

2) Breeden Investment Group, Inc. – 12/30/2002 through present

5. **Acquisition of Site.** 12/30/2002 -- warranty deed

6. **No Responsible Party for the Site.** The current owner of the site (Breeden Investment Group, Inc.) did not dispense or dispose of petroleum or petroleum products. Current or immediate past owners are not known to have exacerbated existing petroleum contamination (if any) at the site. It is not known whether they took reasonable steps with regard to potential contamination at the site.

7. **Assessed or Cleaned Up by a Person Not Potentially Liable.** The City of Columbus (Grantee & Applicant) has never dispensed or disposed of petroleum or petroleum product, or exacerbated the existing petroleum contamination (if any) at the site.

8. **Relatively Low Risk.** The risk at this site is unknown. It does not appear that the site is receiving or using LUST Trust Fund monies. No information regarding previous assessments or remediation was found in the IDEM VFC.

9. **Judgments, Orders, or Third Party Suits.** None known.

10. **Subject to RCRA.** None known.

11. **Financial Viability of Responsible Parties.** A search of the Indiana Secretary of State Business Directory Online Database provided the following information:

- Breeden Investment Group, Inc. – Articles of Incorporation effective from 10/26/1989. This company is listed as the current owner of the Subject Site.

Their business status is listed as active. The business is registered at 700 Washington Street, Columbus, IN, 47201.

- Papa's Family, LLC (Papa's Deli) – Certificate of organization effective 06/01/2015. This company is a current tenant of the Subject Site. The business is listed as active. The principal office address is listed as 228 Chestnut St., Columbus, IN, 47201. This is believed to be an alternative address for the Subject Site.
- TrueBlue Enterprises, In. (People Ready) – Certificate of organization effective 05/16/2013. This company is listed as the owner of People Ready, a current tenant of the Subject Site. The principal office address is listed as 1015 A Street, Tacoma, WA, 98402.
- Kiel Bros. Oil Company, Inc. – Certificate of organization effective 03/30/1960. This company is believed to be a former owner of the Subject Site. Their business is listed as Admin Dissolved. The business was registered at 1427 Washington St., PO Box 344, Columbus, IN, 47202.
- Gary Davis Music Makers Store -- Certificate of Organization effective from 12/29/1966. This company is believed to be a former owner of the Subject Site. Their business status is listed as Admin Dissolved. The business was registered at 7925 St Rd 7, Columbus, IN 47201.
- The search also returned no matches for any of the previous site owner/business names as current businesses entities. Internet search engines also returned no matches for any of these entities.

The search returned no matches for any of the other previous site owner/business names as current businesses entities. Internet search engines also returned no matches for any of these entities.



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
(800) 451-6027 • (317) 232-8603 • [www.idem.IN.gov](http://www.idem.IN.gov)

Eric J. Holcomb  
Governor

Bruno L. Pigott  
Commissioner

November 29, 2017

Mary Ferdon  
City of Columbus  
123 Washington Street  
Columbus, Indiana 47201

Re: Petroleum Eligibility  
Papap Deli & People Ready  
819 & 821 3<sup>rd</sup> Street  
Columbus, Bartholomew County, IN  
Site Number 4171110

Dear Ms. Ferdon:

This letter acknowledges that the City of Columbus (City), pursuant to U.S. EPA grant requirements, notified the Indiana Department of Environmental Management (IDEM) of its plans to perform site assessment activities at the above referenced site (Site). The City provided information, including on ownership, regarding the potentially petroleum-contaminated Site and requested that IDEM make the necessary determination on eligibility for federal brownfields funding. Based on the information provided with the request or otherwise reviewed by IDEM, and using both the applicable federal guidelines and Indiana law and related policies, IDEM has determined the following with respect to the request:

I) The Site is of "relatively low risk" as compared with other petroleum-only sites in the state because the Site is not listed in IDEM's databases relating to underground storage tanks (USTs), and there are no reported releases for the Site. The Site is not being cleaned up by funds from the state Excess Liability Trust Fund (ELTF) or the federal Leaking Underground Storage Tank (LUST) trust fund, and is not subject to a response under the Oil Pollution Act.

II) IDEM is unaware that any responsible party (RP) has been identified through:

- (a) A judgment in a court of law or an administrative body that would require that party assess, investigate or remediate the Site; or,
- (b) A filed enforcement action brought by federal or state authorities, or is party to a citizen suit, that would, if successful, require that party to assess, investigate or clean up the Site; or,
- (c) A citizen suit, contribution action or other third party claim brought against the current or immediate past owner for the site that would, if successful, require the assessment, investigation, or remediation of the Site.



A State that Works

III) The Site is not subject to any order issued under 9003(h) of the Solid Waste Disposal Act.

IV) The current owner, Breeden Investment Group, Inc. (Current Owner), and the immediate past owner, Gary Davis Music Makers Store (Past Owner), did not dispense or dispose of, or own the Site during the dispensing or disposal of, any contamination at the Site and have taken reasonable steps with regard to stopping any potential petroleum releases, prevented any threatened future releases of petroleum and prevented or limited exposure to any previously released petroleum contamination at the Site. The Current Owner acquired the Site in 2002 and Past Owner acquired the Site in 1980. Both owners utilized the Site for various commercial uses. According to historical records, the Site was owned by Kiel Brothers Oil Company Inc., a petroleum bulk facility from as early as 1898 to 1966.

V) The City is a volunteer that is not potentially liable for the suspected petroleum contamination because it has not dispensed or disposed of or owned the property during the dispensing or disposing of petroleum or petroleum product at the Site. It has also not exacerbated the contamination at the Site and has taken reasonable steps with regard to the contamination at the Site.

VI) No information pertaining to RPs (or the financial viability of any RPs) was provided to IDEM as part of this request, and IDEM has no additional information suggesting there is a financially viable RP that will address contamination at the Site.

The information reviewed above is consistent with the determinations set forth in Section 101(39)(d)(II)(bb) of the Comprehensive Environmental Response, Compensation, and Liability Act. IDEM is unaware of any reasons why the City cannot move forward with the assessment at the Site using federal brownfield grant funds. If you have any questions, please call Andrea Robertson Habeck at 317-234-0968 or email at [aroberts@ifa.in.gov](mailto:aroberts@ifa.in.gov)

Sincerely,



Doug Louks, Branch Chief  
Underground Storage Tanks Branch  
Office of Land Quality

cc: Diane Spencer, U.S. EPA, Region 5 (electronic)  
Andrea Robertson Habeck, Indiana Brownfields Program (electronic)



# Notification for Underground Storage Tanks

FORM APPROVED  
OMB NO. 2050-0049  
APPROVAL EXPIRES 6-30-88

FOR  
TANKS  
IN  
IN

RETURN  
COMPLETED  
FORM  
TO

Division of Land Pollution Control  
UST Program  
Indiana State Board of Health  
P.O. Box 7015  
Indianapolis, IN 46207

I.D. Number

STATE USE ONLY  
009336

Date Received

(317) 245-5060  
MAY 25 1986

## GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

**Who Must Notify?** Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(u) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

**What Tanks Are Included?** Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

**What Tanks Are Excluded?** Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;

5. surface impoundments, pits, ponds, or lagoons;

6. storm water or waste water collection systems;

7. flow-through process tanks;

8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;

9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

**What Substances Are Covered?** The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

**Where To Notify?** Completed notification forms should be sent to the address given at the top of this page.

**When To Notify?** 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

**Penalties:** Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

## INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

### I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Doyle Todd

Street Address

BARTHOWMEY 2114 CENTRAL

County

Columbus In. 47201

City State ZIP Code

Area Code Phone Number

812-376-6414

Type of Owner (Mark all that apply ☒)

- ☐ Current ☐ State or Local Gov't ☒ Private or Corporate  
☐ Former ☐ Federal Gov't (GSA facility I.D. no.) ☐ Ownership uncertain

### II. LOCATION OF TANK(S)

(If same as Section I, mark box here ☐)

Facility Name or Company Site Identifier, as applicable

ED FRENCH BUICK-DOYLE

215 FRANKLIN ST.

Street Address or State Road, as applicable

BARTHOWMEY

County

Columbus In. 47201

City (nearest) State ZIP Code

Indicate number of tanks at this location

4

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

### III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐)

ROBERT LAWSON

Job Title

SERVICE DIRECTOR

Area Code

812

Phone Number

376-3338

### IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

### V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

SERVICE DIRECTOR

Signature

Robert Lawson

Date Signed

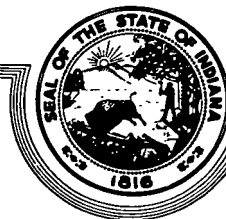
5-20-86

CONTINUE ON REVERSE SIDE

## VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	Tank No. 5
1. Status of Tank (Mark all that apply <input checked="" type="checkbox"/> )					
Currently in Use	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brought into Use after 5/8/86	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Estimated Age (Years)	20 yrs	20 yrs	20 yrs	20 yrs	
3. Estimated Total Capacity (Gallons)	500 gal	500 gal	500 gal	500 gal	
4. Material of Construction (Mark one <input checked="" type="checkbox"/> )					
Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
5. Internal Protection (Mark all that apply <input checked="" type="checkbox"/> )					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior Lining (e.g., epoxy resins)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
6. External Protection (Mark all that apply <input checked="" type="checkbox"/> )					
Cathodic Protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Painted (e.g., asphaltic)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic Coated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
7. Piping (Mark all that apply <input checked="" type="checkbox"/> )					
Bare Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input checked="" type="checkbox"/> )					
a. Empty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Petroleum					
Diesel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kerosene	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gasoline (including alcohol blends)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Used Oil	<input checked="" type="checkbox"/>				<input type="checkbox"/>
Other, Please Specify		OIL 10W30	TRANS Fluid	OIL 10W30	
c. Hazardous Substance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)					
c. Mark box <input checked="" type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# STATE OF INDIANA



## INDIANAPOLIS

### STATE BOARD OF HEALTH

AN EQUAL OPPORTUNITY EMPLOYER

March 1986

Address Reply to:  
Division of Land Pollution Control--UST  
P.O. Box 7015  
Indianapolis, IN 46207-7015

Gentlemen:

Re: Underground Storage Tank  
Notification

In November of 1984, the Hazardous and Solid Waste Amendments to the Resource Conservation and Recovery Act (RCRA) were passed into law. Subtitle I of these amendments established the Underground Storage Tank (UST) Program requiring all owners and operators of underground storage tanks that are either currently in service or were taken out of service after January 1, 1974, but are still in the ground, to notify of their existence. The Division of Land Pollution Control, Indiana State Board of Health, has been designated to receive this notification.

MAY 29 3 31 PM '86  
DIVISION OF LAND POLLUTION CONTROL  
STATE BOARD OF HEALTH

To meet the requirements of notification, each owner and operator must:

Fill out the enclosed notification form;

Sign the certification at the bottom of the form; and

In addition, please include a diagram of the facility on standard 8 1/2 by 11-inch white bond paper. The diagram should include the location of any underground storage tank and associated piping, the location of above ground structures, the location of the tank dispenser, a north directional arrow, and a street address. The diagram should be in black ink for microfilming purposes.

The notification form may be photocopied if additional copies are required.

When complete, return the form to the Division of Land Pollution Control, UST Program, Indiana State Board of Health, P.O. Box 7015, Indianapolis, Indiana, 46207-7015.

All questions should be directed to Mr. Michael T. Scanlon at AC 317/243-5060.

Very truly yours,

David D. Lamm, Director  
Division of Land Pollution Control

MTS/sk  
Enclosure

# Witco

Witco Corporation, 520 Madison Avenue, New York, NY 10022-4236 Telephone 212-605-3800

March 21, 1986

*Rob  
Please  
Hannah  
R.H.*

Dear Customer:

A new Federal law directs the Environmental Protection Agency (EPA) to develop a comprehensive regulatory program for underground storage tanks. As part of the new law, owners of certain underground tanks used to store petroleum or hazardous substances must notify designated State or local agencies of the existence of their tanks by May 8, 1986. This includes owners of tanks currently used to store such substances and owners of tanks taken out of operation after January 1, 1974, but still in the ground. Owners who bring tanks into use after May 8, 1986, must notify within 30 days.

The purpose of the notification program is to assist EPA and the States in locating and evaluating underground storage tanks. Enclosed is a copy of EPA's regulations concerning owners of underground storage tanks, a notification form and a list of the addresses of the State or local agencies designated to receive the notifications.

Please review the regulations to determine if you are affected by the notification requirements. If you have any questions as to your responsibility under the law, please contact the EPA RCRA/Superfund Hotline at (800) 424-9346.

Sincerely,

*Harold J. Dayton*  
Aero Oil Company, Inc.

Division of

Witco Corporation

Indiana Department of  
Environmental Management  
Office of Environmental Response  
USE Program  
P.O. Box 7015  
Indianapolis, IN 46207-7015

66-32

## Tanks

FORM APPROVED  
OMB NO. 2050-0049  
APPROVAL EXPIRES 6-30-88

I.D. Number

STATE USE ONLY

015889

Date Received

(317) 243-5060

### GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

**Who Must Notify?** Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(v) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

**What Tanks Are Included?** Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

**What Tanks Are Excluded?** Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;

5. surface impoundments, pits, ponds, or lagoons;

6. storm water or waste water collection systems;

7. flow-through process tanks;

8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;

9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

**What Substances Are Covered?** The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

**Where To Notify?** Completed notification forms should be sent to the address given at the top of this page.

**When To Notify?** 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

**Penalties:** Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

### INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

0

#### I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Bartholomew County Commissioners

Street Address

440 3rd Street

County

Bartholomew

City

Columbus,

State  
Indiana

ZIP Code  
47201

Area Code

812 Phone Number  
379-1507

Type of Owner (Mark all that apply ☒)

☐ Current

☒ State or Local Gov't

☐ Private or Corporate

☐ Former

☐ Federal Gov't  
(GSA facility I.D. no. \_\_\_\_\_  
County \_\_\_\_\_)

☐ Ownership uncertain

#### II. LOCATION OF TANK(S)

(If same as Section I, mark box here ☐)

Identify Name of Company Site Identifier, as applicable

Graham Todd Building

BARTHOLOMEW  
CO.

Street Address or State Road, as applicable

215 Franklin Street

County

Bartholomew

City (nearest)

Columbus,

State

Indiana

ZIP Code

47201

Indicate number of tanks at this location

3

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

#### III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☒)

Job Title

Area Code

Phone Number

#### IV. TYPE OF NOTIFICATION

☒ Mark box here only if this is an amended or subsequent notification for this location.

#### V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative  
Chairman Bartholomew County Commissioners

Signature

Date Signed

8-14-89

CONTINUE ON REVERSE SIDE

## VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No. 2	Tank No. 3	Tank No.	Tank No.
<b>1. Status of Tank</b> (Mark all that apply <input checked="" type="checkbox"/> ) Currently in Use Temporarily Out of Use Permanently Out of Use Brought into Use after 5/8/86	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>2. Estimated Age (Years)</b>	23 years	23 years	23 years		
<b>3. Estimated Total Capacity (Gallons)</b>	500	500	500		
<b>4. Material of Construction</b> (Mark one <input checked="" type="checkbox"/> ) Steel Concrete Fiberglass Reinforced Plastic Unknown Other, Please Specify _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
<b>5. Internal Protection</b> (Mark all that apply <input checked="" type="checkbox"/> ) Cathodic Protection Interior Lining (e.g., epoxy resins) None Unknown Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
<b>6. External Protection</b> (Mark all that apply <input checked="" type="checkbox"/> ) Cathodic Protection Painted (e.g., asphaltic) Fiberglass Reinforced Plastic Coated None Unknown Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
<b>7. Piping</b> (Mark all that apply <input checked="" type="checkbox"/> ) Bare Steel Galvanized Steel Fiberglass Reinforced Plastic Cathodically Protected Unknown Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
<b>8. Substance Currently or Last Stored in Greatest Quantity by Volume</b> (Mark all that apply <input checked="" type="checkbox"/> ) <b>a. Empty</b> <b>b. Petroleum</b> Diesel Kerosene Gasoline (including alcohol blends) Used Oil Other, Please Specify _____ <b>c. Hazardous Substance</b> Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No. Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances <b>d. Unknown</b>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <u>New Oil</u> <input type="checkbox"/> _____ <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <u>New Oil</u> <input type="checkbox"/> _____ <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
<b>9. Additional Information (for tanks permanently taken out of service)</b> <b>a.</b> Estimated date last used (mo/yr) <b>b.</b> Estimated quantity of substance remaining (gal.) <b>c.</b> Mark box <input checked="" type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete)	Removed 7 / 6/89 <input type="checkbox"/>	Removed 7 / 6/89 <input type="checkbox"/>	Removed 7/6/89 <input type="checkbox"/>	/	/



Administrative Resources association  
a governmental association of Indiana cities

748 Franklin Street  
Columbus, Indiana 47201

Website: [www.aracities.org](http://www.aracities.org)  
Fax: 812-376-8857

812-376-9949

July 26, 2012

BOARD OF DIRECTORS

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Mayor, Mitchell

Harold "Soup" Campbell  
Mayor, North Vernon

Mike Pavey  
Mayor, Rushville

David Bower  
Mayor, Salem

Craig Luedeman  
Mayor, Seymour

STAFF

Eric A. Frey, II  
Executive Director  
[ericfrey@aracities.org](mailto:ericfrey@aracities.org)

Trena P. Carter  
Mgr. Municipal Programs  
[tcarter1@aracities.org](mailto:tcarter1@aracities.org)

Paula Hartwell  
Mgr. Municipal Programs  
[paula@aracities.org](mailto:paula@aracities.org)

Debra K. Lilly  
Mgr. Housing Programs  
[deblll@aracities.org](mailto:deblll@aracities.org)

Carrie Riley  
Grants Management  
[criley@aracities.org](mailto:criley@aracities.org)

Victoria Dake  
Grant Management - Housing  
[victoria@aracities.org](mailto:victoria@aracities.org)

Stella Beabout  
Grant Clerk  
[stella@aracities.org](mailto:stella@aracities.org)

Debbie Flohr  
Office Manager Bookkeeping  
[DebraFlohr@aracities.org](mailto:DebraFlohr@aracities.org)

Collis Mayfield, B.S., R.E.H.S.

Director

Bartholomew County Health Dept. - Environmental Health

440 Third Street

Columbus, IN 47201

Re: Former REMC Site, 801 2<sup>nd</sup> Street  
City of Columbus, Bartholomew County, Indiana  
CDBG- DR2 Brownfield/Clearance Application

Dear Mr. Mayfield: *Collis*

The City of Columbus is requesting funding for Community Development Block Grant, DR2 funding through Indiana Office of Community and Rural Affairs to assist in the demolition and removal all buildings, structures, pavement, and any other site improvements from the 801 2<sup>nd</sup> Street, the former REMC site. The city is conducting an environmental assessment in accordance with CDBG regulations and appreciates your assistance. In addition to the CDBG - DR2 funds, the City of Columbus will be utilizing Tax Increment Financing funds for the project. The project application will be submitted on or before September 28, 2012.

The project includes the demolition and removal of an approximately 14,100 square foot operations building and loading dock; demolition and removal of an approximately 3150 square foot storage barn; demolition and removal of an approximately 3000 square foot administrative building; demolition and removal of approximately 52,800 square feet of asphalt and concrete pavement; demolition and removal of concrete racks, previously used for utility pole storage; demolition and removal of any retaining walls and/or any miscellaneous structures on the site, including, but not limited to signs, fences, poles, flag poles, parking bumpers, or curbs. Upon completion of the demolition and removal of all site improvements, all excavations shall be backfilled with topsoil and the site shall be grades and seeded. Maps and aerial photos, flood plain map, and USGS quadrangle map showing the location of the project area within the City of Columbus and Bartholomew County are enclosed.

The purpose of this correspondence is to inform you of the project, to request that I be notified as soon as possible if you determine that the regulations for which your





Fixed  
7-30-12

Page 2

July 26, 2012  
Director  
Bartholomew County Health Dept. - Environmental Health

Re: Former REMC Site, 801 2<sup>nd</sup> Street  
City of Columbus, Bartholomew County, Indiana  
CDBG- DR2 Brownfield/Clearance Application

agency is responsible will be affected by the undertaking, and to solicit your comments or recommendations regarding mitigation of potential adverse impacts of any elements of the project that are of interest to your agency. I will be submitting this information under separate cover to IDNR-SHPO/DHPA.

In order for your comments to be considered without resulting in inordinate delays in the project, they must be received within thirty days from the date of receipt of this letter.

For your convenience, if you conclude that your agency does not have an interest in the project, or that additional information is needed for you to make a determination, please check the appropriate box below, sign, and return this letter in the enclosed envelope or electronically if so desired.

Thank you, in advance, for your assistance.

Sincerely yours,

Trena Carter  
Manager - Municipal Programs

I have reviewed the above project description and the attached supplementary information, and have concluded that our agency will not be affected by the project.

Yes ☒ No ☐

I need additional information in order to determine if our agency has an interest in the above project. (Please list the specific information that you need.) Yes ☐ No ☒

---

Colvin A. Mayfield, DIRECTOR  
Signature and Title

BARTHOLOMEW Co. Health Dept  
Agency



Former REMC Site Location  
801 2<sup>nd</sup> Street, Columbus, Bartholomew County, Indiana

PROJECT SITE – 801 2<sup>nd</sup> Street, Columbus, Bartholomew County, Indiana



Project parcel from the Bartholomew County GIS online mapping.



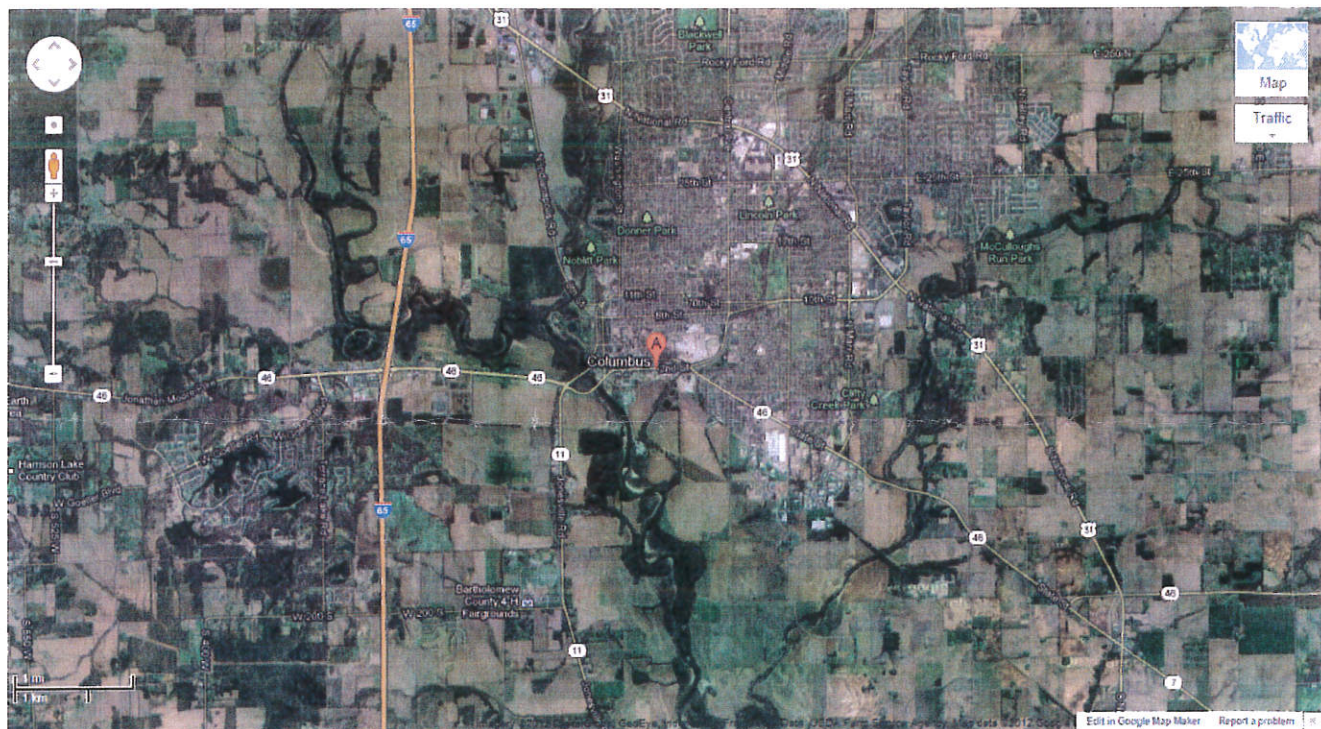
☐ Project site



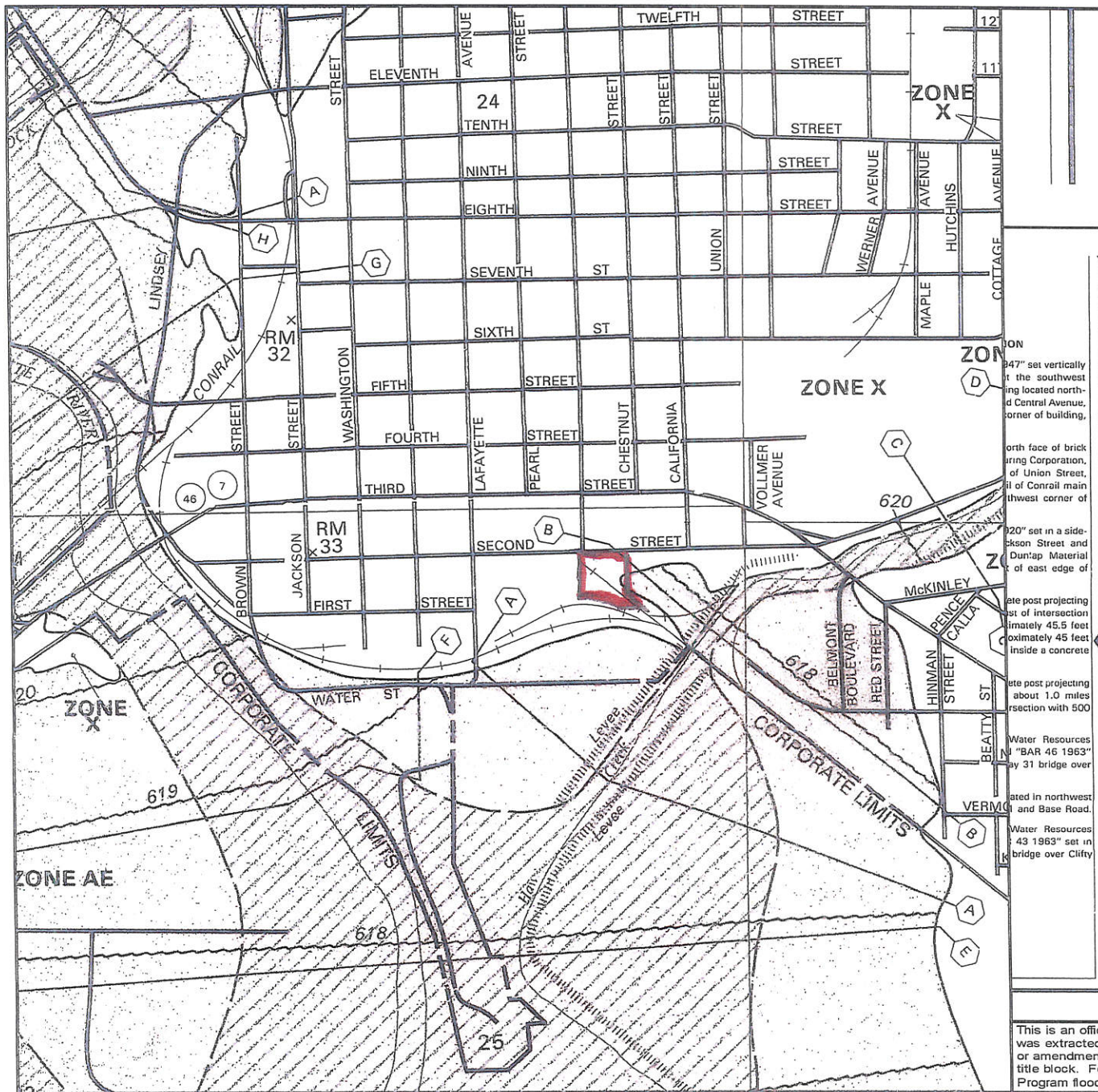
Former REMC Site Location  
801 2<sup>nd</sup> Street, Columbus, Bartholomew County, Indiana



 Project site







To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program.



APPROXIMATE SCALE

1000 0 1

# NATIONAL FLOOD INSURANCE PROGRAM

## **FIRM** FLOOD INSURANCE RATE MAP

CITY OF  
COLUMBUS,  
INDIANA  
BARTHOLOMEW COUNTY

PANEL 20 OF 30

(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER

180007 0020 D

MAP REVISED:  
FEBRUARY 19, 1997



Federal Emergency Management Agency

47" set vertically  
at the southwest  
corner of building,

orth face of brick  
ring Corporation,  
of Union Street,  
il of Conrail main  
thwest corner of

20" set in a side-  
sion Street and  
Dunlap Material  
t of east edge of

ate post projecting  
st of intersection  
imately 45.5 feet  
approximately 45 feet  
inside a concrete

ate post projecting  
about 1.0 miles  
section with 500

Water Resources  
"BAR 46 1963"  
ay 31 bridge over

ated in northwest  
and Base Road.

Water Resources  
43 1963" set in  
bridge over Clifty

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

Project Site

TOWNSHIP/STREET 2<sup>nd</sup> Street SECTION \_\_\_\_\_

FACILITY \_\_\_\_\_

INVESTIGATION/REPORT FORM

Division of Environmental Health  
Bartholomew County Health Department

Date 7-22-93 Time 3:30. Initial MLG

Name Jim Jackson Subject Transformer Oil Spill

Anonymous \_\_\_\_\_ Address 93-07 206 Incident number

Address REMC Directions \_\_\_\_\_

Telephone \_\_\_\_\_ Owner/Landlord \_\_\_\_\_

Investigation/Report: Mr. Jackson called. He stated that REMC had a Non PCB transformer oil spill in their transformer pad at 801 2<sup>nd</sup>. The spill covered a 1'x5' area. The spill occurred at 14:40 and Dave Dougherty with IDEM has already been called.

Action: I told him we will check on the clean-up.

7-22-93 I went to REMC met with Mr. Jackson. He showed me where the spill occurred. Clean-up is complete. They used Petro sorb to absorb all the oil. They then used "down" dish detergent and just enough water to make suds. This is scrubbed and Petro sorb is used to absorb this. The Petro sorb is collected in a 55 gallon drum and is hauled away by their disposal company.

Completed by Matthew Gilbert, REHS Date 7-22-93

Reviewed Amy Knight Date 8-2-93

TOWNSHIP/STREET 2<sup>nd</sup> Street SECTION \_\_\_\_\_

FACILITY \_\_\_\_\_

INVESTIGATION/REPORT FORM

Division of Environmental Health  
Bartholomew County Health Department

Date 6-24-93 Time \_\_\_\_\_ Initial MUG

Name \_\_\_\_\_ Subject Odor

Anonymous \_\_\_\_\_ Address REMC

Address \_\_\_\_\_ Directions \_\_\_\_\_

Telephone \_\_\_\_\_ Owner/Landlord \_\_\_\_\_

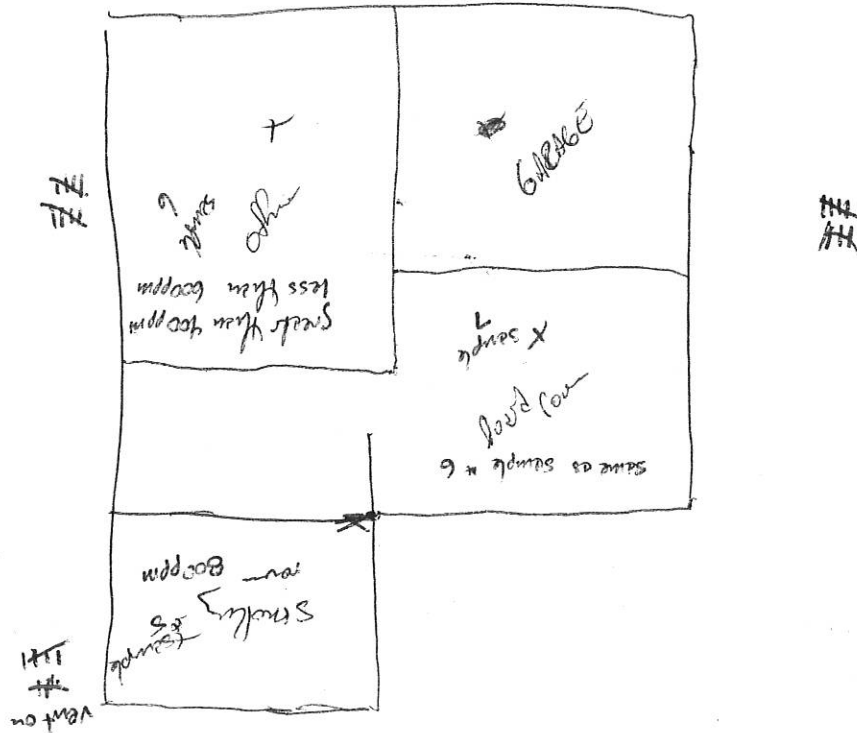
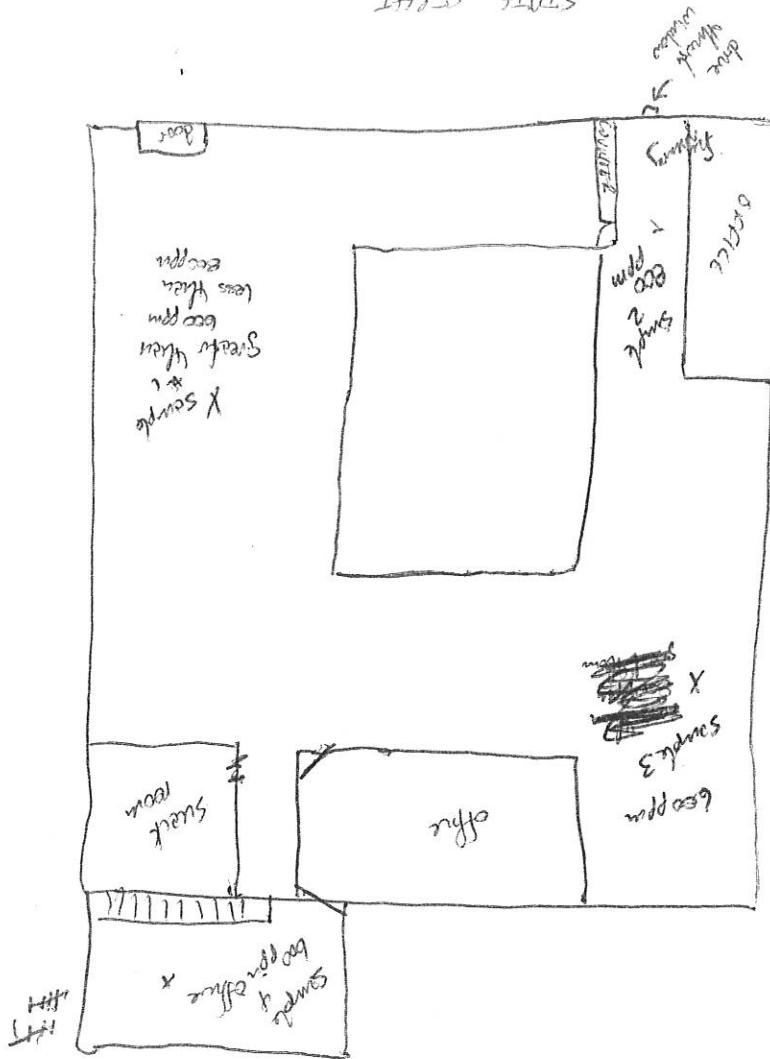
Investigation/Report: The caller stated that there is an odor inside the REMC building that makes him nauseous.

Action: 7-6-93 I went to REMC. I spoke with Mr. Don Anhalt. I explained the complaint that we had received. He stated that a couple of weeks ago the exhaust fan for the restroom broken. It has been replaced. He also said that whenever the water is high they have problems with water in the basement and the sewer does not work properly. The city is working on this problem. We will set up an appointment to do air sampling. 7-6-93 I called Mr. Anhalt set up an appointment to do air testing at 1:30 7-15. 7-15-93 I took CO<sub>2</sub> reading in 7 locations throughout the building - see diagram on back

Completed by Matthew Gilbreath RENS Date 7-19-93  
Reviewed Amy Knight Date 8-2-93



~~10/11/11~~  
~~10/11/11~~  
~~10/11/11~~



16  
20  
21  
22  
23



## BARTHOLOMEW COUNTY HEALTH DEPARTMENT

July 19, 1993

Mr. Dan Arnholt  
Manager  
Bartholomew County REMC  
801 Second Street  
P.O. Box 467  
Columbus, IN 47202-0467

RE: Air Testing

Dear Mr. Arnholt:

On July 15, 1993, an environmental health specialist with this department conducted an air exchange survey at the REMC building, 801 Second Street, Columbus, Indiana. This survey consisted of testing seven areas of the building for the concentration of carbon dioxide using a Drager hand pump. Enclosed is a sketch of the locations where the samples were taken. The following chart lists the results of the sampling.

Sample Number	Results
1	greater than 600 ppm but less than 800 ppm
*2	800 ppm
3	600 ppm
4	600 ppm
^5	800 ppm
6	greater than 400 ppm but less than 600 ppm
7	greater than 400 ppm but less than 600 ppm

\* An oscillating fan was running in this area at the time of sampling.

^ An exhaust fan was running in this area at the time of sampling.

Mr. Dan Arnholt  
Page 2  
July 19, 1993

None of the samples taken exceeded the National Ambient Air Quality Standard of 1,000 ppm. Therefore, it would appear that the air exchange rate is adequate for your building. However, due to a wide variation in individual susceptibility and sensitivity, some exposed individuals may experience discomfort from substances at concentrations at or below the standards.

Medical advice from a physician should be sought by individuals experiencing health problems.

Please contact Mr. Matthew Galbraith, R.E.H.S. at 379-1550 if you have questions.

Sincerely,

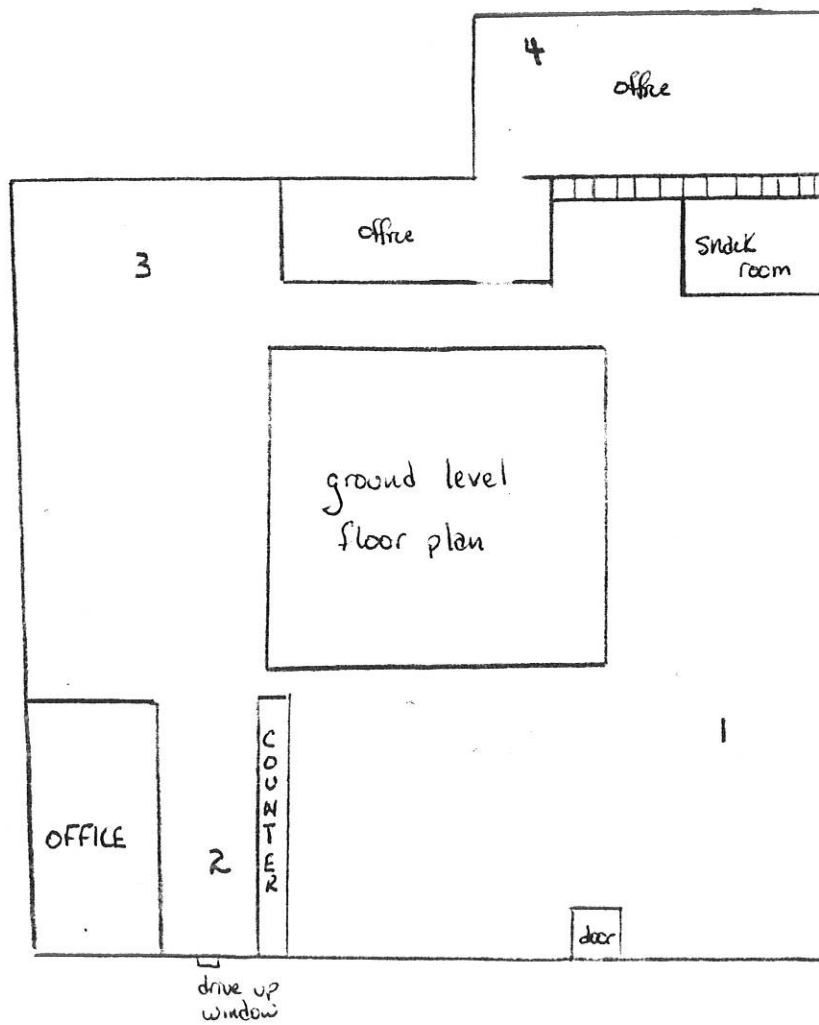
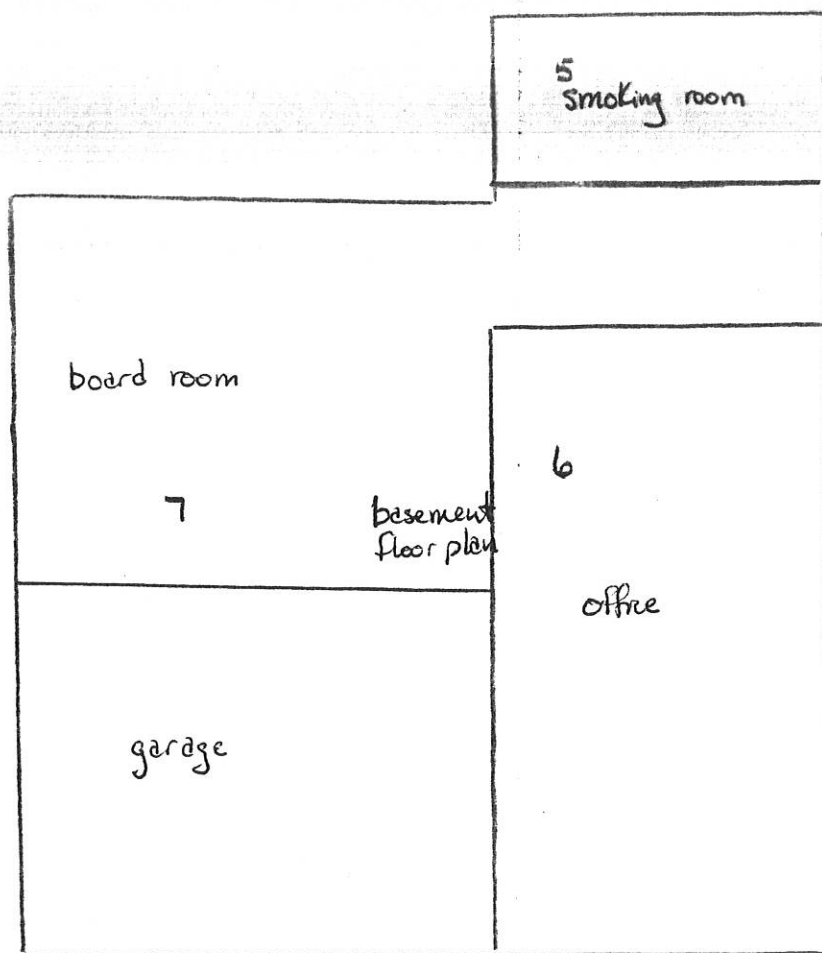
A handwritten signature in cursive script, appearing to read "Amy Knight".

Amy Knight  
Administrative Supervisor  
Environmental Health Division

MG/tf

Enclosure







Page 2  
March 18, 2010  
Bartholomew County Health Department

Re: Columbus Wood Treating Plant – Site Remediation  
City of Columbus, Bartholomew County, Indiana  
CDBG-Economic Development Initiative funding through HUD  
State Revolving Fund

- Install a monitoring well network to test the groundwater over an extended period of time and confirm whether the existing plume of contaminants is expanding or migrating
- Establish restrictive covenants to limit future site use and prevent use of groundwater in the impacted area.

Phase I Environmental Site Assessments (ESAs) were conducted for the City of Columbus and the Columbus Redevelopment Commission in 1999 and 2009. Phase II ESAs were conducted in 1999 and 2002 for the City of Columbus and 2008 for the Columbus Redevelopment Commission. Enclosed please find information from those assessments in the Scope of Work and Cost Estimate Site Remediation Former Columbus Wood Preserving Site report of February 24, 2010 by BCA Consultants, Inc.

Also enclosed please find an overview of the area, as well as a replat drawing of the project location.

The purpose of this correspondence is to inform you of the project, to request that I be notified as soon as possible if you determine that the regulations for which your agency is responsible will be affected by the undertaking, and to solicit your comments or recommendations regarding mitigation of potential adverse impacts of any elements of the project that are of interest to your agency. I will be submitting this information under separate cover to IDNR-SHPO/DHPA.

In order for your comments to be considered without resulting in inordinate delays in the project, they must be received within thirty days from the date of receipt of this letter.

For your convenience, if you conclude that your agency does not have an interest in the project, or that additional information is needed for you to make a determination, please check the appropriate box below, sign, and return this letter in the enclosed envelope.

Thank you, in advance, for your assistance.

Sincerely yours,

Trena Carter  
Manager - Municipal Programs



## **BCA Consultants, Inc.**

6330 E 75<sup>th</sup> Street Suite 150

Indianapolis, IN 46250

Phone (317) 578-4233

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**SCOPE OF WORK AND COST ESTIMATE  
SITE REMEDIATION  
FORMER COLUMBUS WOOD PRESERVING SITE  
705 2<sup>ND</sup> STREET  
COLUMBUS, INDIANA  
(February 24, 2010)**

### **1.0 BACKGROUND AND PURPOSE**

Phase I Environmental Site Assessments (ESAs) were conducted for the City of Columbus and the Columbus Redevelopment Commission in 1999 and 2009. Based on the 2009 Phase I ESA dated May 12, 2009 the subject site is comprised of two parcels. The parcel designated as Lot 2A is a combined property that was formerly comprised of two smaller lots with the addresses of 703 2nd Street and 711 2nd Street. Lot 2A is approximately 1 acre in size. A portion of Lot 2A is leased to Brett Cruser LLC, and operated as a Rhino Linings sales and installation center. Another portion of Lot 2A is leased to Robert Czeszko and operated as Bob's Car Wash. Columbus Downtown, Inc. owns Lot 2A. The parcel designated as Lot 2B is approximately 4.5 acres in size (formerly part of 701 2nd Street), is vacant, and is owned by Columbus Downtown, Inc.

Based on the 2009 Phase I ESA, recognized environmental conditions identified at the site include:

1. It appears that coal and coke processing took place at the site from 1885 to 1903 and creosoting was conducted at the site from the 1920s to 1971. Soil and groundwater were impacted by VOCs, PAHs and TPH above the IDEM RISC IDCL.
2. Several feet of foundry sand was found throughout the site as fill.
3. Site operations at the Rino Linings, since 1997, have included the storage and application of products including solvents and petroleum distillates.
4. A LUST was reported at the 711 lot in 1992. It was listed as a low priority, but not granted NFA status.

Phase II ESAs were conducted in 1999 and 2002 for the City of Columbus and 2008 for the Columbus Redevelopment Commission. Based on the Phase II ESAs:

1. The soils at the site consist mainly of foundry sand underlain by sand and gravel or a silty clay layer at some locations. Saturated sand with gravel is found above a discontinuous silty clay layer at about 20-25 feet below grade. The silty clay layer is present to the north and west of the site, but not to the east and south. A second saturated sand and gravel layer was found beneath the clay and may be continuous with the first where the

- clay layer is absent. The deeper sand and gravel unit was found to be underlain by clay at about 50 feet in the single deep boring .
2. The impacted area extends throughout the southwest portion of the site and chemicals of concern (CoCs) include VOCs (primarily naphthalene), SVOCs (primarily pentachlorophenol), some PAHs, TPH-ERO and arsenic.
  3. The extent of impacted soil is largely limited to the southwest portion of the site and has been delineated.
  4. A total of 12 groundwater monitoring wells were installed and a single round of groundwater samples were collected.
  5. Impacted groundwater was also detected in monitoring wells to the west of the southwest corner (PAHs, TPH-ERO and VOCs) and to the south of the site (arsenic, PAHs, TPH-ERO, and VOCs).
  6. Impacted groundwater was detected in the single monitoring well at a depth of 45-50 feet (PAH and VOC).
  7. Groundwater flow (based on one previous round of measurements in wells at the top of the aquifer) is to the south-southeast. The presence of the clay layer at 20-25 feet in borings to the north and west of the site may cause a perching effect with local flow to the southeast. Groundwater gradient lines suggest that flow may curve back to the south or southwest toward the East Fork of the White River.

Based on the results of the older Phase II ESAs and the recommendations of the Phase I ESAs the groundwater was further investigated to the south and west of the site. The investigation is incomplete, but the preliminary results of the investigation indicate that:

1. The outwash aquifer is present below the site to a depth of about 60 feet and is underlain by a very thin layer of clay followed by shale bedrock. Creosote contamination is present (based on visual and odor) through much of the aquifer and is especially evident immediately above the basal clay/shale unit. Although a dense non-aqueous phase liquid (DNAPL) has not been confirmed, the behavior of the contaminant suggests its presence is possible. Impacted aquifer material is evident in at the bottom of the aquifer in both wells placed to the south and southeast of the source area.
2. Groundwater at the top of the aquifer is impacted 200 feet south of the site but not 400 feet south of the site. A single location to the southwest suggests that trace impact at the top of the aquifer extends up to 400 feet from the site.

The purpose of this Scope of Work is to summarize initial plans and estimated costs for remediation of the Columbus Wood Preserving Site.



Address Columbus, IN

Get Google Maps on your phone

Text the word "GMAPS" to 466453



Project Area



Google maps Address

To see all the details that are visible on the screen, use the "Print" link next to the map.

[Get Directions](#) [My Maps](#) [View in Google Earth](#) [Print](#) [Send](#) [Link](#)



usgs | Google Maps

LAFAYETTE STREET (60' R/W) (LOCAL)

**SECOND STREET  
REPLAT,  
A REPLAT OF  
LOT 2A**



LOT 2B	4.95 Ac.
LOT 3	1.24 Ac.
TOTAL	6.18 Ac.

LINE TABLE		
LINE	LENGTH	BEARING
L1	10.00	N00°21'29"

CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	DELTA	CHORD	CHORD BTO
C1	214.69	975.40	107.78	12°36'40"	214.26	\$79°55'31"

**LEGEND**

●	5/8" REBAR FOUND
■	MAG NAIL FOUND
○	5/8" CAPPED REBAR SET THIS SURVEY
□	MAG NAIL SET THIS SURVEY
*****	VACATE LOT LINE
(R)	RECORD PLAT DIMENSION
<u>NO ACCESS</u>	NO ACCESS



**SHEET 1 OF 2**

SECOND STREET REPLAT -  
LOT 2A  
BARTHOLOMEW COUNTY  
COLUMBUS, INDIANA

DRAWN BY: TMA DATE: 3/18/01  
SCALE: 1"=60' REVISION: 6/17/01  
DWG NAME: 07100N REPIAT.DWG

**Independent  
Land  
Surveying**

820 SWEET STREET  
BROWNSTOWN, IN 47220  
Phone: 812-358-2062  
Fax: 812-358-2605  
E-Mail: [ib@surveying.com](mailto:ib@surveying.com)

Job #07108

LAND DESCRIPTION  
LOT 2A IN "SECOND STREET REPLAT" AS RECORDED IN PLAT BOOK "O", PAGE 10; ALSO LOT 1A IN "REB SUBDIVISION A REPLAT OF LOT 1" AS RECORDED IN PLAT BOOK "P", PAGE 173A BOTH IN THE OFFICE OF THE RECORDER, LYING IN COLUMBUS TOWNSHIP, BARTHOLOMEW COUNTY, INDIANA. (SECTION 24, TOWNSHIP 9 NORTH, RANGE 5 EAST.)

I, MARK R. ISAACS, HEREBY CERTIFY THAT I AM A PROFESSIONAL SURVEYOR, LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF INDIANA; THAT, TO THE BEST OF MY KNOWLEDGE, THIS DRAWING CORRECTLY REPRESENTS A SURVEY COMPLETED BY ME IN MARCH 2009; THAT ALL MONUMENTS SHOWN THEREON ACTUALLY EXIST OR WILL BE INSTALLED. FURTHERMORE, I AFFIRM UNDER PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.

MARK R. ISAACS, LS-29600018

**DAT**

# SECOND STREET REPLAT, A REPLAT OF LOT 2A

## SURVEYORS REPORT

PREPARED FOR: COLUMBUS DOWNTOWN INC., OWNER OF THAT LAND DESCRIBED IN INSTRUMENT #2009-268 AND #2008-14860 AS SHOWN HEREON. THE SUBJECT LAND IS BEING DIVIDED INTO 2 LOTS, AS REQUESTED BY THE RECORD DEED OWNER.

IN ACCORDANCE WITH THE INDIANA SURVEY STANDARDS AS DEFINED IN INDIANA ADMINISTRATIVE CODE 865 IAC 1-12 ("RULE 12"), THE FOLLOWING OBSERVATIONS AND OPINIONS ARE SUBMITTED REGARDING THE VARIOUS UNCERTAINTIES IN THE LOCATIONS OF THE LINES AND CORNERS ESTABLISHED ON THIS SURVEY AS A RESULT OF:

1. VARIANCES IN THE FOUND MONUMENTATION
  2. VARIANCES IN RECORD DOCUMENTS AND PLATS
  3. INCONSISTENCIES IN LINES OF OCCUPATION
  4. RANDOM ERRORS IN MEASUREMENT (RELATIVE POSITIONAL ACCURACY).
- THERE MAY BE UNWRITTEN RIGHTS ASSOCIATED WITH THESE UNCERTAINTIES.

ALL BEARINGS AND DISTANCES SHOWN ON THE DRAWING ARE FIELD MEASUREMENTS UNLESS OTHERWISE NOTED. BEARING SYSTEM IS "ASSUMED".

## REFERENCE SURVEYS:

1) A PLAT TITLED "REB SUBDIVISION REPLAT OF LOT 1" AS RECORDED IN PLAT BOOK "P", PAGE 173A, IN THE BARTHOLOMEW COUNTY RECORDERS OFFICE.

2) A PLAT TITLED "SECOND STREET REPLAT AS RECORDED IN PLAT BOOK "O", PAGE 10 IN THE BARTHOLOMEW COUNTY RECORDERS OFFICE.

## FINDINGS OF FACTS:

"A", "B", "C", "D", "E" AND "F" FOUND REBAR MARKING THEIR RESPECTIVE CORNERS OF REFERENCE SURVEY #1 AND #2.

THERE IS A SHED THAT ENCROACHES UP TO 7 FEET ON TO SUBJECT LAND ALONG THE SOUTH LINE OF LOT 1B "REB SUBDIVISION".

THERE IS AN ELECTRIC LINE RUNNING THROUGH THE PROPERTY. NO EASEMENT HAS BEEN FOUND.

## THEORY OF LOCATION:

"H", "K", "L", "M", "N" SET PER RECORD PLAT DIMENSIONS.

"I" & "J" SET PER OWNERS REQUEST.

ALL MONUMENTS SET OR FOUND THIS SURVEY ARE WITHIN 4" OF THE GROUND SURFACE.

## SUMMARY:

AS A RESULT OF THE ABOVE OBSERVATIONS, IT IS MY OPINION THAT THE UNCERTAINTIES IN THE LOCATIONS OF LINES AND CORNERS ESTABLISHED ON THIS SURVEY ARE AS FOLLOWS

DUE TO VARNANCES IN REFERENCE MONUMENTS: 0.30 FEET.  
DUE TO DISCREPANCIES IN THE RECORD PLATS AND DESCRIPTIONS: NON OBSERVED.  
DUE TO INCONSISTENCIES IN LINES OF OCCUPATION: UP TO 7 FEET.

A SEARCH FOR EASEMENTS OF RECORD IS NOT TO BE IMPLIED BY THIS SURVEY. IMPROVEMENTS WERE NOT LOCATED BY THIS SURVEY. MATTERS OF ZONING COMPLIANCE IS NOT EXPRESSED OR GUARANTEED BY THIS SURVEY.

THE UNDERSIGNED CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR, REGISTERED IN THE STATE OF INDIANA, THE PRECISION AND ACCURACY STANDARD FOR THE HEREON SURVEY MEETS OR EXCEEDS THE ACCEPTABLE RELATIVE POSITIONAL ACCURACY FOR A SUBURBAN SURVEY.

THE HEREON SURVEY WAS PERFORMED WHOLLY UNDER MY DIRECTION FROM THE NOTES OF A FIELD SURVEY CONDUCTED IN JULY OF 2008 AN THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF WAS EXECUTED IN ACCORDANCE WITH TITLE 865, 1-12-1 (RULE 12) OF THE INDIANA ADMINISTRATIVE CODE.

NOTICE: TO SUBJECT LAND OWNER, THE ADJOINING LAND OWNER MAY HAVE UNWRITTEN RIGHTS TO THAT LAND OUTSIDE OF ANY FENCES OR OCCUPATION LINES THAT YOU MAY OR MAY NOT BE OCCUPYING. BEFORE REMOVING ANY FENCES OR IMPROVEMENTS, I RECOMMEND THAT YOU CONSULT WITH AN ATTORNEY. CONTACT THIS OFFICE, IF YOU HAVE ANY QUESTIONS.

## OWNER'S CERTIFICATE

WE, THE UNDERSIGNED, COLUMBUS DOWNTOWN INC., OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY CERTIFY THAT WE LAY OFF AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THIS DRAWING.

THIS SUBDIVISION SHALL BE KNOWN AND DESIGNATED AS "SECOND STREET REPLAT, A REPLAT OF LOT 2A", CONSISTING OF 2 LOTS; IDENTIFIED HEREON AS LOT 2B AND LOT 3.

CLEAR TITLE TO THE LAND CONTAINED IN THIS SUBDIVISION IS GUARANTEED.

THE SETBACK LINES SHALL BE DETERMINED BY THE REGULATIONS OF THE GOVERNING ENTITY HAVING ZONING JURISDICTION OVER THE PROPERTY SHOWN HEREIN.

LOTS 1A AND 2A ARE HEREBY VACATED BY THIS DRAWING.

THE LOTS IN THIS SUBDIVISION ARE SUBJECT TO THE CONDITIONS AND RESTRICTIONS AS SHOWN ON THE ORIGINAL PLAT OF "SECOND STREET REPLAT" AS RECORDED IN PLAT BOOK "O", PAGE 10; AND "REB SUBDIVISION A REPLAT OF LOT 1" AS RECORDED IN PLAT BOOK "P", PAGE 173A BOTH IN THE BARTHOLOMEW COUNTY RECORDERS OFFICE.

WITNESS MY HAND AND SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2009.

COLUMBUS DOWNTOWN INC.

STATE OF INDIANA

COUNTY OF BARTHOLOMEW

} SS:

BEFORE ME, THE UNDERSIGNED NOTARY PUBLIC, IN AND FOR THE COUNTY AND STATE, PERSONALLY APPEARED \_\_\_\_\_, KNOWN TO ME TO BE \_\_\_\_\_ OF COLUMBUS DOWNTOWN INC., WHO ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT AS HER VOLUNTARY ACT AND DEED FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND NOTARIAL SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2009.

NOTARY PUBLIC

COUNTY OF RESIDENCE

MY COMMISSION EXPIRES \_\_\_\_\_



## ADMINISTRATIVE APPROVAL

THIS SUBDIVISION HAS BEEN DETERMINED TO BE AN ADMINISTRATIVE SUBDIVISION AND IS ELIGIBLE FOR RECORDING AS SUCH:

APPROVED BY THE PLANNING DEPARTMENT \_\_\_\_\_ 2009.

JEFFREY R. BERGMAN, ACP

VOID UNLESS RECORDED BY: \_\_\_\_\_, 20\_\_\_\_.

## AUDITOR CERTIFICATE

THE REAL PROPERTY HAS BEEN DULY ENTERED FOR TAXATION AND TRANSFERRED ON THE, RECORDS OF THE AUDITOR OF BARTHOLOMEW COUNTY, THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2009.

BARBARA HACKMAN, BARTHOLOMEW COUNTY AUDITOR

## RECORDING CERTIFICATE

RECORDED IN PLAT BOOK \_\_\_\_\_, PAGE \_\_\_\_\_, THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2009 AT \_\_\_\_\_ O'CLOCK \_\_\_\_\_ M.

INSTRUMENT NO. \_\_\_\_\_ FEE PAID \_\_\_\_\_

A NOTATION HAS BEEN MADE ON THE ORIGINAL PLAT OF "SECOND STREET REPLAT" AS RECORDED IN PLAT BOOK "O", PAGE 10; AND "REB SUBDIVISION A REPLAT OF LOT 1" AS RECORDED IN PLAT BOOK "P", PAGE 173A

BETTY JEAN BESHEAR, BARTHOLOMEW COUNTY RECORDER

SHEET 2 OF 2	
<b>SECOND STREET REPLAT - LOT 2A</b> BARTHOLOMEW COUNTY COLUMBUS, INDIANA	
GRAPH BY: TMA	DATE: 3/18/09
SCALE: 1"=60'	REVISION: 8/17/09
DWG NAME: 07108 REPLAT.DWG	
<b>Independent Land Surveying</b>	
820 SWEET STREET BROWNSBURG, IN 47220 PHONE: 812-358-2892 FAX: 812-358-2625 E-MAIL: info@landsurveying.com	

Job #07108



cut 4 sm  
No 535

Mitchell E. Daniels, Jr.  
Governor

Judith A. Monroe, M.D.  
State Health Commissioner



Indiana State  
Department of Health  
*An Equal Opportunity Employer*

Date: March 24, 2010

To: Trena Carter  
ARa  
3200 Sycamore Court, 1-A  
Columbus, IN 47203

RE: Columbus Wood Treating Plant-  
Site Remediation

In regards to the above referenced project, I am responding to the environmental review documents received by our office.

☒ We have no reservation about the proposed project and foresee no significant environmental disturbance.

☐ We believe this proposed project will have environmental detriment to the community and have attached supporting document or intend on requesting more information for our consideration.

If you have any questions, please contact Dennis H. Ehlers at AC 317/233-7588.

Sincerely

HOWARD W. CUNDIFF, P.E., DIRECTOR  
HEALTH CARE ENGINEERING & MEASUREMENT

DHEhlers  
CC: Bartholomew County Health Department