

Electronic Filing: Received, Clerk's Office 07/24/2024
**BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS**

ABP PROPERTIES, LLC)	
)	
Petitioner,)	
)	
v.)	PCB 2025-001
)	(LUST Appeal)
ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
Respondent.)	

NOTICE

Don Brown, Clerk
Illinois Pollution Control Board
60 E. Van Buren St., Ste. 630
Chicago, IL 60605
don.brown@illinois.gov

Carol Webb, Hearing Officer
Illinois Pollution Control Board
1021 North Grand Avenue East
P.O. Box 19274
Springfield, IL 62794-9274
carol.webb@illinois.gov

Patrick D. Shaw
Law Office of Patrick D. Shaw
80 Bellerive Road
Springfield, IL 62704
pdshaw1law@gmail.com

PLEASE TAKE NOTICE that I have today filed with the office of the Clerk of the Pollution Control Board an **APPEARANCE**, the **ADMINISTRATIVE RECORD**, and a **CERTIFICATE OF RECORD ON APPEAL**, copies of which are herewith served upon you.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



Rich Kim
Assistant Counsel - Division of Legal Counsel
Special Assistant Attorney General
1021 North Grand Avenue, East
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)
Dated: July 24, 2024

**BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS**

ABP PROPERTIES, LLC)	
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Petitioner,)	
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v.)	PCB 2025-001
)	(LUST Appeal)
ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
Respondent.)	

APPEARANCE

The undersigned, as one of its attorneys, hereby enters his Appearance on behalf of the Respondent, the Illinois Environmental Protection Agency.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



Rich Kim
Assistant Counsel - Division of Legal Counsel
Special Assistant Attorney General
1021 North Grand Avenue, East
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)
richard.kim@illinois.gov
Dated: July 24, 2024

**BEFORE THE POLLUTION CONTROL BOARD
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ABP PROPERTIES, LLC)	
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Petitioner,)	
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v.)	PCB 2025-001
)	(LUST Appeal)
ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
)	
Respondent.)	

CERTIFICATE OF RECORD ON APPEAL

Pursuant to 35 Ill. Adm. Code 105.116(b) and 105.410, the following constitutes an index of documents comprising the record:

PAGES	DOCUMENT(S)	DATE
AR000001-AR000002	Illinois HazMat Report	October 5, 2016
AR000003-AR000229	Corrective Action Plan & Budget Amendment	October 7, 2021
AR000230-AR000237	IEPA CAP/B response letter	February 9, 2022
AR000238-AR000252	Corrective Action Budget Amendment	November 22, 2023
AR000253-AR000255	IEPA Technical Review Notes	May 17, 2024
AR000256-AR000260	IEPA decision letter	May 21, 2024

I, Scott R. Rothering, certify on information and belief that the entire record of the Respondent's decision, as defined in 35 Ill. Adm. Code 105.410(b), is hereby enclosed.

By:



Scott R. Rothering
Leaking Underground Storage Tank Section
Illinois Environmental Protection Agency

Date: 7/24/24

Electronic Filing: Received, Clerk's Office 07/24/2024
CERTIFICATE OF SERVICE

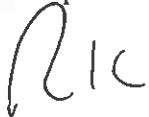
I, the undersigned attorney at law, hereby certify that on **July 24, 2024**, I served true and correct copies of an **APPEARANCE**, the **ADMINISTRATIVE RECORD**, and a **CERTIFICATE OF RECORD ON APPEAL**, via the Board's COOL system and email, upon the following named persons:

Don Brown, Clerk
Illinois Pollution Control Board
60 E. Van Buran St., Ste. 630
Chicago, IL 60605
don.brown@illinois.gov

Carol Webb, Hearing Officer
Illinois Pollution Control Board
1021 North Grand Avenue East
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80 Bellerive Road
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



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richard.kim@illinois.gov



Hazardous Materials Incident

Report **0530100002-ford**



Incident #: H-2016-0917	ABP Properties LLC
Entered By: Kattner, Paul (IEMA) on 2016-10-05 11:51:36	Leaking UST Techfile
Data Input Status: Closed	
Leaking Underground Storage Tank (LUST): Yes	

Caller:	Carol Rowe		
Call Back #:	217/522-8001		
Caller Represents:	CW3M		
Hazmat Incident Type:	Leak or spill		
INCIDENT LOCATION			
Incident Location:	120 W. 1st St		
County:	Ford	City:	Gibson City
Primary IEMA Region:	7	Secondary IEMA Region:	Not Applicable
Full Address:	120 W. 1st St, Gibson City, IL		
Latitude:	40.456828	Longitude:	-88.37572
Milepost:	N/A	Sec:	N/A
Twp.:	N/A	Range:	N/A
Area Involved:	Fixed Facility		
Media or medium into which the release occurred:	Ground		

WEATHER INFORMATION		
Temp (deg F):	70 Degrees	Wind Dir/Speed m.p.h: S 18 MPH

MATERIALS INVOLVED			
Material Name:	Gasoline	Material Type:	Liquid
CHRIS Code:	Unknown	CAS #:	Unknown
UN/NA #:	Unknown		
Is this a 302(a) Extremely Hazardous Substance?	Unknown		
Is this a RCRA Hazardous Waste?	Unknown		
Is this a RCRA regulated facility?	Unknown		
Container Type:	Under ground storage tank	Container Size:	1 X 12,000 (Gasoline), 1 X 10,000 Gallons (Gasoline) & 1 X 8,000 Gallons (Gasoline)
Amount Released:	Unknown.	Rate of Release/min:	Unknown
Duration of Release:	Unknown		
Cause of Release:	Unknown, under investigation		
Estimated Spill Extent:	Unknown	Spill Extent Units:	

SEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

NOV 02 2016
REVIEWER: JKS

Date/Time Occured:	(Date/Time Unknown)
Date/Time Discovered:	2016-10-05 10:30

Number Injured:	0	Where Taken:	N/A
Number Killed:	0	# Evacuated:	0
On Scene Contact:	Matt Rieves	On Scene Phone #:	217/851-1404

Proper safety precautions to take as a result of the release, including evacuation:
None

Assistance needed from State Agencies:
None

Containment/Cleanup actions and plans:
Tanks will likely be removed and soil remediated....CW3M (Contractor) will coordinate cleanup and remediation.

Responsible Party:	ABB Properties LLC ← ABP, Not ABB
Contact Person:	Yogi Bhardwaj
Callback Phone Number:	217/851-1404
Facility Manager:	Yogi Bhardwaj
Facility Manager Phone #:	217/851-1404
Street Address:	159 N Greenleaf St #2
City:	Gurnee State: IL Zip Code: 60031

Emergency Units Contacted	Contacted	On Scene	Agencies Contacted
ESDA			None
Fire			None
Police			None
Sheriff			None
Other			None

AGENCIES OR PERSONS NOTIFIED			
Agency	Date/Time	Name of Person	Notification Action
IEPA, OSFM, NRTP, & IEMA Region #7	2016-10-05 12:00	E-mailed	Report Sent

Narrative:

Follow-Up Information:

7/24/2024 10:00 AM RECEIVED

CLERK'S OFFICE

CW³M Company

Environmental Consulting Services

701 W. South Grand Avenue
Springfield, IL 62704

Phone: (217) 522-8001
Fax: (217) 522-8009

October 7, 2021

Mr. Scott Rothering, Project Manager
LUST Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, IL 62794-9276

RE: LPC # 0530100002 — Ford County
120 West 1st Street
Gibson City, Illinois
Incident Number: 2016-0917
LUST Technical Reports—Corrective Action Plan and Budget Amendment

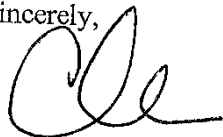
Dear Mr. Rothering:

On behalf of ABP Properties, LLC, owner of the underground storage tanks formerly at the above-referenced site, we are submitting the attached Corrective Action Plan and Budget Amendment.

In the Agency approval letter of the Corrective Action Plan (CAP), dated December 19, 2019, it was requested that additional sampling be proposed to more accurately define the extents of the engineered barrier necessary for the site. Those activities were completed along with a soil-gas vapor boring. It was determined from the analytical results of the soil-gas vapor sample that the site required additional remediation efforts. The proposal for remediation efforts are included in this CAP and Budget Amendment.

If you have any questions or require additional information, please contact Mr. Matthew Saladino or me at (217) 522-8001.

Sincerely,



Carol L. Rowe, P.G.
Senior Environmental Geologist

Enclosure

xc: Dr. Yogi Bhardwaj, *ABP Properties, LLC*
Mr. and Mrs. Brandon & Tricia Slagel
Mr. William T. Sinnott, *CW³M Company, Inc.*

701 W. South Grand Avenue
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400 West Jackson, Suite C
Marion, IL 62959
(618) 997-2238

**CORRECTIVE ACTION PLAN &
BUDGET AMENDMENT**

ABP Properties, LLC

**GIBSON CITY, ILLINOIS
LPC # 0530100002— Ford County
Incident Number 2016-0917**

Submitted to:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Leaking Underground Storage Tank Section, Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Prepared by:

CW³M COMPANY, INC.

701 South Grand Avenue West
Springfield, Illinois
(217) 522-8001

400 West Jackson, Suite C
Marion, Illinois
(618) 997-2238

OCTOBER 2021

CW³M Company, Inc.
Corrective Action Plan and Budget Amendment
ABP Properties, LLC
LPC # 0530100002 – Incident Number 2016-0917

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Corrective Action Plan and Budget Amendment
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ACRONYMS AND ABBREVIATIONS

BETX	Benzene, Ethylbenzene, Toluene, Total Xylenes
CAP	Corrective Action Plan
CACR	Corrective Action Completion Report
CUOs	Clean-up Objectives
CW ³ M	CW ³ M Company, Inc.
CWS	Community Water Supply
ELUC	Environmental Land Use Control
IEMA	Illinois Emergency Management Agency
IEPA	Illinois Environmental Protection Agency
Ill. Adm. Code	Illinois Administrative Code
ISGS	Illinois State Geological Survey
ISWS	Illinois State Water Survey
mg/kg	Milligrams/kilograms
mg/L	Milligrams/Liter
MTBE	Methyl-Tert-Butyl-Ether
OSFM	Illinois Office of the State Fire Marshal
PNAs	Polynuclear Aromatic Hydrocarbons
PVC	Polyvinyl Chloride
SICR	Site Investigation Completion Report
SIP	Site Investigation Plan
SWAP	Source Water Assessment Program
TACO	Tiered Approach to Corrective Action Objectives
UST	Underground Storage Tank
WCR	Well Completion Report

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1. SITE HISTORY/EXECUTIVE SUMMARY

1.1 GENERAL

This proposed Corrective Action Plan (CAP) and Budget Amendment has been prepared in accordance with the requirements of the 35 Illinois Administrative Code (Ill. Adm. Code) 734. The Illinois Environmental Protection Agency (IEPA) Corrective Action Plan Form is included in this document as Appendix A.

The 20-Day Certification was submitted to the IEPA on October 25, 2016 (CW³M, 2016a). The 45-Day Report was submitted to the Agency on December 2, 2016 (CW³M, 2016b) and was approved by the Agency on January 26, 2017 (IEPA, 2017). A Stage 3 Site Investigation Plan (SIP) and Budget was submitted to the Agency on December 22, 2017 (CW³M, 2017) and was approved with modifications on April 10, 2018 (IEPA, 2018a). A Stage 3 SIP Budget Amendment was submitted to the Agency on April 20, 2018 (CW³M, 2018) and was rejected by the IEPA in a review letter dated July 18, 2018 (IEPA, 2018b). The Site Investigation Completion Report (SICR) was submitted on March 5, 2019 (CW³M, 2019a) and approved on June 13, 2019 (IEPA, 2019a). A CAP and Budget was submitted on August 22, 2019 (CW³M, 2019b) and approved with modifications by the IEPA on December 19, 2019 (IEPA, 2019b). A CAP and Budget Amendment was submitted to the Agency on January 9, 2020 (CW³M, 2020) and approved by the IEPA on May 5, 2020 (IEPA, 2020).

This report is certified by an Illinois Licensed Professional Engineer. The geological investigation and site investigation were performed under the direction of an Illinois Licensed Professional Geologist and completed in accordance with the Professional Geologist Licensing Act and its Rules for Administration.

1.2 SITE LOCATION

The site, known as ABP Properties, LLC, is located at 120 West 1st Street, Gibson City, Ford County, Illinois 60936. The site is in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 14, Township 23 North of the Centralia Baseline and Range 7 East of the Third Principal Meridian.

1.3 UNDERGROUND STORAGE TANK INFORMATION

A permit for the removal of three underground storage tanks (USTs) was approved by the Office of the State Fire Marshal (OSFM) on October 13, 2016 (OSFM, 2016), however during the uncovering of Tank 7 on November 14, 2016, an additional 560-gallon heating oil tank was discovered on-site. Therefore, a new request for a permit for removal was promptly submitted, including the additional tank, and was approved by the OSFM. Tank and piping

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removal activities were conducted by Midwest Petroleum on November 15 and November 16, 2016. OSFM Tank Specialist Herman Taylor and CW³M Company, Inc. (CW³M) personnel were on-site to oversee the removal of the USTs.

B.K. Jackson Bulldozing & Excavating, under supervision of CW³M personnel, were on site from November 14 through November 18, 2016, November 21 through November 23, 2016, and November 28 through November 29, 2016 to complete early action activities, including removal of contaminated backfill material and replacement of clean fill to the UST excavation area. As the OSFM Field Specialists have been instructed not to make the official determination of the release in the field, the source of release has been determined in consult with the OSFM Field Specialist using the best professional judgment of the condition of tank, piping, and soil conditions.

Table 1-1. Underground Storage Tank Summary

Tank Number	Tank Volume (gallons)	Tank Contents	Incident Number	Release Information	Current Status
1	4,000	Gasoline	-	Unknown	Removed 6/18/86
2	4,000	Gasoline	-	Unknown	Removed 6/18/86
3	6,000	Gasoline	-	Unknown	Removed 6/18/86
4	6,000	Gasoline	-	Unknown	Removed 6/18/86
5	6,000	Gasoline	-	Unknown	Removed 6/18/86
6	1,000	Kerosene	-	Unknown	Removed 6/18/86
7	12,000	Gasoline	2016-0917	Overfilling/Piping Leaks	Removed 11/15/2016
8	10,000	Gasoline	2016-0917	Overfilling/Piping Leaks	Removed 11/16/16
9	8,000	Gasoline	2016-0917	Overfilling/Piping Leaks	Removed 11/16/16
10	560	Heating Oil	2016-0917	Tank Leaks	Removed 11/15/16

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1.4 EARLY ACTION SUMMARY

Following Illinois Emergency Management Agency (IEMA) notification of the release, Dr. Bhardwaj requested that CW³M proceed with reporting requirements and early action activities in accordance with 35 Ill Adm. Code § 734.

While on-site from November 16, 2016 to November 23, 2016, CW³M obtained early action samples while conducting early action activities. Details of the early action excavation and sample results were included in the 45-Day Report (CW³M, 2016b). A table summarizing the analytical results is included in Appendix G.

1.5 SITE INVESTIGATION SUMMARY

1.5.1 First Round of Sampling

On March 7, 2017, CW³M personnel were on-site to initiate Stage 1 investigation activities. Five monitoring wells (MW-1 through MW-5) and three soil borings (SB-1 through SB-3) were advanced as part of the plume delineation activities. Following IEPA Stage 1 sampling protocol, soil samples were also collected from four of the monitoring well locations: MW-1 through MW-4. Samples from these monitoring well locations and the three soil boring locations were solely analyzed for benzene, ethylbenzene, toluene, and total xylenes (BETX) and methyl-tert-butyl-ether (MTBE) due to no Clean-up Objectives (CUOs) being exceeded for any polynuclear aromatic hydrocarbons (PNAs) during the early action stage. Soil analytical results from the Stage 1 investigation indicated that the CUO for benzene at MW-4 at the 2.5-foot depth had been exceeded. Therefore, the soil plume remained undefined to the north of the property.

CW³M personnel returned to the site on March 9, 2017 to sample and survey the newly installed monitoring wells. The wells were surveyed and groundwater was sampled for BETX and MTBE; CW³M personnel then returned to the site on October 13, 2017 to collect PNA samples from each of the wells, which was omitted during the initial groundwater sampling event. Groundwater analytical results from the Stage 1 investigation indicated that the CUO for benzene at MW-2 had been exceeded, as well as the CUOs for benzene and ethylbenzene being exceeded at MW-5. Additionally, the CUO for naphthalene at MW-4 had been exceeded. Therefore, the groundwater plume remained undefined to the north and south of the property. Soil boring logs and well completion reports (WCRs) are included in Appendix F. A table summarizing the analytical results is included in Appendix G.

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Corrective Action Plan and Budget Amendment
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1.5.2 Off-site Access Activities

It was determined that the next step for the site would be performing the Stage 3 site investigation. Therefore, access needed to be sought for adjacent off-site properties.

On April 11, 2018, a certified letter was sent to Steve Arends, requesting access to his property located at 715 S. Sangamon Avenue to allow access for an off-site investigation. The letter was delivered on April 19, 2018, to which a response was never made from Mr. Arends.

Therefore, a letter including language required by 35 Ill. Adm. Code 724.350b) was sent to Mr. Arends on June 1, 2018. The letter was delivered on June 4, 2018. To date, no response to this letter has been received. Therefore, access has been considered denied.

On April 18, 2018, a letter was sent to McDonald's – Gibson City, requesting access to their property located at 801 S. Sangamon Avenue to allow access for an off-site investigation. A response to this letter was never made from McDonald's.

Therefore, on June 1, 2018, a certified letter including language required by 35 Ill. Adm. Code 724.350b) was sent to McDonald's – Gibson City. The letter was delivered on June 4, 2018. Mr. Jack Millan of the McDonald's Restaurant Office, owner of the McDonald's in Gibson City, responded via telephone on June 7, 2018, requesting access license agreements be sent to him.

Access agreements were sent to Mr. Millan in a certified letter on June 8, 2018. The letter was delivered on June 11, 2018. To date, no response to this letter has been received, therefore, access has been considered denied.

In accordance with 35 Ill. Adm. Code 734.350, affidavits will be prepared and included in the Corrective Action Completion Report (CACR), documenting the attempts to obtain access from the properties. Copies of the correspondences sent to the off-site properties were included in the SICR (CW³M, 2019).

1.5.3 Second Round of Sampling

While access to off-site properties was ultimately denied, the soil borings on-site were drilled. On August 8, 2018, CW³M personnel were on-site to initiate Stage 3 investigation activities. One soil boring (SB-4) was advanced as part of the plume delineation activities. Samples from this soil boring location were solely analyzed for BETX and MTBE due to no CUOs being exceeded for any PNAs during the early action stage. Soil analytical results from the Stage 3 investigation indicated that the CUO for benzene at SB-4 at the 7.5-foot depth had been exceeded. An additional soil boring was also drilled adjacent to MW-3 to determine the Tiered Approach to Corrective Action Objectives (TACO) site-specific

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parameters. Soil boring logs are included in Appendix F. A table summarizing the analytical results is included in Appendix G.

1.6 CORRECTIVE ACTION EXECUTIVE SUMMARY

Tables comparing soil analytical results to the most stringent Tier 1 Remediation Objectives are included in Appendix G. The soil contamination plume was considered defined at the conclusion of the Stage 3 investigation due to denial of access to off-site to the north of the site. The soil contamination plume remains on-site to the south, east, and west while spanning across the subject's property off-site to the north. Drawing 0009 in Appendix B depicts the limits of the soil contamination plume.

Tables comparing groundwater analytical results to the most stringent Tier 1 Remediation Objectives are included in Appendix G. The groundwater contamination plume was considered defined at the conclusion of the Stage 3 investigation due to denial of access to both the north and south of the site. The groundwater contamination plume remains on-site to the east and west while spanning across the subject's property into the right-of-way of 1st Street as well as onto the property to the north. Drawing 0010 in Appendix B depicts the limits of the groundwater contamination plume.

On February 12, 2020, CW³M personnel were on-site to initiate corrective action activities. Three soil borings (CA-1, CA-2, and CA-3) were advanced in order to determine the area requiring an engineered barrier. Samples from these soil boring locations were solely analyzed for benzene as that was the only contaminant that would require the engineered barrier as a form of remediation. A soil gas-vapor boring was also drilled adjacent to early action sample 3 to determine if the vapor intrusion pathway required additional remediation efforts. Soil boring logs are included in Appendix F. Analytical results and a table summarizing the results are included in Appendix G.

The soil gas-vapor sample results indicate that additional remediation efforts are required to address that pathway of contamination on-site.

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2. REMEDIATION OBJECTIVES

2.1 DETERMINATION OF CLEAN-UP OBJECTIVES

In accordance with 35 Ill. Adm. Code 734.410, remediation objectives were determined in accordance with 35 Ill. Adm. Code § 742. One of the clean soil boring locations (MW-3) was sampled for the TACO parameters. The site-specific physical parameters are listed in the following table.

Hydraulic Conductivity (K), = 2.77x10⁻³ cm/sec

Soil bulk density (ρ_b), = 1.233 g/cm³

Soil particle density (ρ_s), = 2.634 g/cm³

Moisture content (w), = 0.22

Organic carbon content (f_{oc}) = 0.0343

Soil Classification = Sand

In order to determine the hydraulic conductivity, a slug test was performed during the pre-corrective action stage. The test was performed by lowering a “slug” constructed of polyvinyl chloride (PVC) into MW-3. When the slug is lowered into the well, the groundwater is displaced by the volume of the slug. As the water within the well equilibrates, water depth changes are recorded in relation to the time interval that has passed since the test was initiated.

The hydraulic conductivity calculations are based on the total well depth, screen length and radius, initial water depth, and the water depth change over time. The depth-to-water changes over time are plotted on a semi-logarithmic graph and the curve is evaluated. The slope of the straight-line portion of the curve, along with the other slug test data, is used to calculate the hydraulic conductivity.

Velocity is calculated using the hydraulic conductivity results determined at the site, as well as the hydraulic gradient. The hydraulic gradient is found by calculating the change in gradient between the most up-gradient well and the down-gradient well in the direction of flow, then dividing this answer by the distance in feet between the two wells. Formula R24, ($U_{gw} = K \cdot i$) of 35 Ill. Adm. Code § 742 Appendix C, Table C.

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2.2 SOIL AND GROUNDWATER OBJECTIVES

Soil analytical results were compared to the TACO Residential Tier 1 and TACO Industrial-Commercial Tier 2 CUOs (with the groundwater pathway removed) in milligrams per kilogram (parts per million) (mg/kg). The calculations of the Tier 2 CUOs are included in Appendix E of this CAP. The site is currently zoned and used as a commercial property and plans to remain as such in the future.

Table 2-1. Soil Remediation Objectives

Parameter	TACO Tier 1 Clean-up Objectives (mg/kg)	TACO Industrial/Commercial Tier 2 Clean-up Objectives w/ Groundwater pathway removed (mg/kg)
Benzene	0.03	4.18
Ethylbenzene	13.0	58.0
Toluene	12.0	592.77
Total Xylenes	5.6	80.74
MTBE	0.32	297.28
Acenaphthene	570	-
Acenaphthylene	30	-
Anthracene	12,000	-
Benzo(a)anthracene	0.9	-
Benzo(a)pyrene	0.09	-
Benzo(b)fluoranthene	0.9	-
Benzo(g,h,i)perylene	160	-
Benzo(k)fluoranthene	9.0	-
Chrysene	88.0	-
Dibenz(a,h)anthracene	0.09	-
Fluoranthene	3,100	-
Fluorene	560	-
Indeno(1,2,3-cd)pyrene	0.9	-
Naphthalene	1.8	2.79
Phenanthrene	280	-
Pyrene	2,300	-

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CW³M will consider the groundwater at this site to be Class I unless demonstrated otherwise pursuant to 35 Ill. Adm. Code § 620.210. According to the Illinois Pollution Control Board, three Class III Groundwater contributing areas exist; however, they are in McHenry, Monroe and St. Clair Counties in northern and western Illinois. Groundwater investigation sample results would be compared to the TACO Tier 1 Clean-up Objectives in milligrams per liter (mg/L).

Table 2-2. Groundwater Remediation Objectives

Parameter	TACO Tier 1 Clean-up Objective (mg/L)
Benzene	0.005
Ethylbenzene	0.7
Toluene	1.0
Total Xylenes	10.0
MTBE	0.07
Acenaphthene	0.42
Acenaphthylene	0.010
Anthracene	2.1
Benzo(a)anthracene	0.00013
Benzo(a)pyrene	0.0002
Benzo(b)fluoranthene	0.00018
Benzo(g,h,i)perylene	0.00076
Benzo(k)fluoranthene	0.00017
Chrysene	0.0015
Dibenz(a,h)anthracene	0.0003
Fluoranthene	0.28
Fluorene	0.28
Indeno(1,2,3-cd)pyrene	0.00043
Naphthalene	0.14
Phenanthrene	0.0064
Pyrene	0.21

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3. CORRECTIVE ACTION PLAN

Based upon the analytical data from the soil and groundwater samples collected to date, it is apparent that soil contamination is present at multiple early action sample locations, as well as MW-4 and SB-4. Due to denial of off-site access, the soil contamination plume has been defined; it spans off-site to the north onto the property owned by Mr. Steve Arends.

Groundwater contamination is present at MW-2, MW-4, and MW-5. Due to denial of off-site access, the groundwater contamination plume has been defined; it spans off-site to the Arends property, as well as to the south into the right-of-way of 1st Street. All site investigation details were presented in the SICR (CW³M, 2019a). From corrective action activities, it is apparent that the formation of soil-gas vapors exceeding CUOs is occurring at sample location SV-1.

The following CAP and Budget has been prepared by CW³M Company, Inc., as their recommendation for the most appropriate and economical approach to the remediation of the contamination at the ABP Properties, LLC site in Gibson City, Illinois. Tier 2 CUOs were developed using various parameters to help determine the most beneficial and feasible outcome.

Upon the determination of the TACO Tier 2 CUOs, it is apparent that with the acceptance of Tier 2 Industrial-Commercial CUOs for the site, soil contamination existing which exceeds Tier 2 CUOs are for the following:

- Tier 2 Industrial-Commercial Inhalation CUO at early action samples 1 and 3 for the indicator contaminant benzene
- Tier 2 Construction Worker Inhalation CUO at early action sample 3 for the indicator contaminant benzene and ethylbenzene
- Tier 2 Construction Worker Inhalation CUO at early action samples 2 and 3 for the indicator contaminant total xylenes

Upon the determination of the analytical results obtained from the soil-gas vapor boring, SV-1, it was determined that the Indoor Industrial/Commercial vapor CUO for benzene and ethylbenzene have been exceeded on-site. Therefore, these exceedances will need to be addressed with the removal of the soil contamination causing the vapors to form. The following table depicts the Industrial/Commercial soil-gas vapor sample exceedances at sample location SV-1.

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Table 3-1. TACO Tier 1 Soil Gas Exceedances

Parameter	TACO Tier 1 Soil Gas Industrial/ Commercial CUO (in mg/m ³)	SV-1 Analytical Results (in mg/m ³)
Benzene	2.8	161.63
Ethylbenzene	9.3	43.44

Prior to the proposed excavation, a waste characterization sample will be collected within the excavation area for landfill authorization parameters. This sample will allow for the management and disposal of the contaminated soil. During the collection of this sample, two additional soil borings are proposed on-site. One soil boring is proposed on-site north of MW-4 closer to the property line. This boring could potentially remove the need for an off-site Environmental Land Use Control (ELUC) and the costs associated with one. The second proposed soil boring is on-site northwest of the existing station building. This boring would further delineate soil contamination on-site. Both additional soil borings will be advanced to a depth of 10 feet, with soil samples being collected in the 0-5 foot and 5-10 foot intervals for BETX, MTBE, and PNA indicator contaminants. Since the minimum cost associated with drilling will be met with the waste characterization sample, these two additional samples would only add analytical costs while potentially removing the costs associated with obtaining an ELUC from the unresponsive off-site party to the north. Drilling for these proposed borings will be associated with the first round trip from the site.

Due to the location of the proposed excavation, the existing canopy on-site will need to be removed. The structural supports of the canopy exist within the excavation area, thus there would be no reasonably safe method for an excavation that would allow the canopy to remain. The associated costs with the canopy removal are included in Appendix D. The costs associated with the excavation and canopy removal will be attributed with the second roundtrip from the site.

The proposed extent of the excavation will be to the depth of groundwater at 10 feet, encompassing the soil contamination causing the soil-gas vapors to form. The extent of the excavation will also remove the soil contamination exceeding Tier 2 Industrial-Commercial / Construction Worker Inhalation CUOs, as well as MW-5. A replacement well will be installed at MW-5 and sampled for BETX, MTBE, and PNAs after excavation activities. This replacement well will add a second minimum for drilling costs. The following table lists the details of the proposed excavation as shown in Appendix B as Drawing 0013:

Table 3-2. Proposed Excavation Summary Data

Area (ft ²)	Excavation Depth (ft)	Volume (ft ³)	Volume (yds ³)	Volume (yds ³) [w/1.05 bulking]
1,794	0-10	17,940	664.44	697.66
			Total:	697.66

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After the proposed excavation of contaminated soil is deemed complete, the excavation wall and floor will be sampled to confirm that the soil contamination has been removed from the site. These ten proposed sample locations are in Drawing 0017 of Appendix B. Samples will be collected for every 20 feet of the excavation walls for a total of eight wall samples. Floor samples will be obtained at the base of the excavation at a depth of 10 feet for a total of two floor samples. All samples will be collected and analyzed for BETX, MTBE, and PNA contaminants.

Once the analytical results return from the proposed excavation, all remaining soil contamination on-site will be reevaluated. The location of highest contamination will be selected and a new soil-gas vapor sample will be advanced at that location. This soil-gas vapor boring will be drilled and sampled along with the advancement of the replacement well for MW-5. These activities will be associated with the third roundtrip from the site.

The fourth roundtrip from the site will be to sample the replacement well at MW-5 for BETX, MTBE, and PNAs indicator contaminants

Following the proposed excavation, concrete replacement will occur for the area removed during the early action tank pull and for this proposed excavation. The area from early action activities requiring concrete replacement is calculated to be 1,708 ft² while the proposed excavation will require 1,794 ft² of concrete replacement.

In summary:

- One waste characterization sample will be collected for landfill authorization parameters and two soil borings will be advanced to further determine the soil contamination plume on-site. The two soil borings will have samples collected in the 0-5 and 5-10 foot intervals for BETX, MTBE, and PNA indicator contaminants. This will be the first round trip from the site as well as the first drilling minimum.
- The existing canopy will be removed to safely allow for the proposed excavation.
- The proposed excavation will occur to the depth of groundwater at 10 feet. Eight wall samples and two floor samples will be collected and analyzed for BETX, MTBE, and PNA indicator contaminants. Excavation activities will be attributed to the second roundtrip from the site.
- Once analytical results return from the excavation, an additional soil-gas vapor boring will be advanced on-site at the location of the highest contamination on-site. While on-site for advancement of this boring, the replacement well at MW-5 will be installed. Costs associated with these borings will add a second drilling minimum and the third roundtrip from the site.
- The replacement well at MW-5 will be sampled for BETX, MTBE, and PNA indicator contaminants. This will add the fourth roundtrip from the site.
- Concrete replacement totaling 3,502 ft² will occur for early action excavation and for this proposed corrective action excavation.

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The attached CAP Budget includes the preparation of this report, additional soil borings with samples, canopy removal, an excavation with floor and wall sampling, a replacement well with sampling, a soil-gas vapor boring, and concrete replacement for the early action tank pull. If necessary, a following CAP and Budget Amendment will contain the results of the proposed activities and any additional remediation efforts required for closure for the site. If no additional CAP and Budget is necessary, a CACR will be submitted detailing the results all of the remediation efforts and restrictions for the site

3.1 CURRENT AND PROJECTED USES OF THE SITE

The site is currently vacant and lies on the south side of Gibson City on 1st Street and is surrounded by both commercial properties and residential properties. The future use of the site is likely to be commercial.

3.2 INSTITUTIONAL CONTROLS PROPOSED

A groundwater ordinance was proposed to address the potential for any groundwater contamination caused by the ABP Properties, LLC release. This ordinance was proposed to the City of Gibson City prior to the knowledge of the required excavation. Notification letters will be sent to all properties included in the proposed ordinance; copies of the correspondence will be included in the CACR. This ordinance request was submitted to the City of Gibson City and was recently passed. A copy of Ordinance #2020-O-10 is included in Appendix I to determine if it meets the required conditions for use as a remediation effort. A sealed copy of the groundwater ordinance along with a clerk certification letter stating that the ordinance is still true and just will be included with the forthcoming CACR. Should future sampling activities require an amended groundwater ordinance, one shall be submitted to the City of Gibson City for ratification, then to the IEPA for approval.

Copies of the correspondences sent to the off-site properties were included in the SICR (CW³M, 2019). Included in the correspondences are the certified letters demonstrating that the northern property had received the letter, but no response has been received from that owner. Therefore, the additional borings on-site to the north are proposed to potentially remove the need for an off-site ELUC.

The need for any further institutional controls will be addressed following corrective action soil sampling and impending excavation.

3.3 WATER SUPPLY WELL SURVEY

A survey of water supply wells for the purpose of identifying and locating all community water supply (CWS) wells within 2,500 feet of the UST systems and all potable water supply

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wells within 200 feet of the UST systems has been completed. The Illinois State Water Survey (ISWS), the Illinois State Geological Survey (ISGS) and the IEPA Division of Public Water Supplies were contacted via the Source Water Assessment Program (SWAP) online.

The ISGS, ISWS, and IEPA Division of Public Water Supplies were accessed online on July 19, 2017 (EPA.STATE.IL.US, 2017). The response indicated that three ISGS wells are located within 2,500 feet of the site. There is currently a localized groundwater ordinance for Gibson City, which includes the site and surrounding properties.

Table 3-3. Water Supply Well Information

Well ID	Type	Distance from USTs (feet)	Setback Zone (feet)
21048	ISGS	1,397	200
20985	ISGS	1,800	200
21009	ISGS	1,800	200

3.4 CLOSURE

Once the soil contamination causing the soil-gas vapors to form are removed and the additional sampling is completed, an additional CAP and Budget Amendment will be submitted detailing all activities proposed in this plan. A follow-up CAP and Budget Amendment will include any additional remediation efforts required for closure of the site. If no additional CAP and Budget Amendment is required, a CACR will be submitted to the IEPA detailing all of the remediation efforts and accompanying restrictions for the site. The closure report will be accompanied by a certification from an Illinois Registered Professional Engineer.

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4. REFERENCES

- CW³M, 2016a. CW³M Company, Inc. *20-Day Certification*. Gibson City, Illinois, October 25, 2016.
- CW³M, 2016b. CW³M Company, Inc. *45-Day Report*. ABP Properties, LLC, Gibson City, Illinois, December 2, 2016.
- CW³M, 2017. CW³M Company, Inc. *Stage 3 Site Investigation Plan and Budget*. ABP Properties, LLC, Gibson City, Illinois, December 22, 2017.
- CW³M, 2018. CW³M Company, Inc. *Stage 3 Site Investigation Plan Budget Amendment*. ABP Properties, LLC, Gibson City, Illinois, April 20, 2018.
- CW³M, 2019a. CW³M Company, Inc. *Site Investigation Completion Report*. ABP Properties, LLC, Gibson City, Illinois, March 5, 2019.
- CW³M, 2019b. CW³M Company, Inc. *Corrective Action Plan and Budget*. ABP Properties, LLC, Gibson City, Illinois, August 22, 2019.
- CW³M, 2020. CW³M Company, Inc. *Corrective Action Plan and Budget Amendment*. ABP Properties, LLC, Gibson City, Illinois, January 9, 2020.
- IEPA, 2017. Illinois Environmental Protection Agency, *45-Day Report Correspondence*, ABP Properties LLC, Gibson City, Illinois, January 26, 2017.
- IEPA, 2018a. Illinois Environmental Protection Agency, *Stage 3 Site Investigation Plan and Budget Correspondence*, ABP Properties LLC, Gibson City, Illinois, April 10, 2018.
- IEPA, 2018b. Illinois Environmental Protection Agency, *Stage 3 Site Investigation Plan Budget Amendment Correspondence*, ABP Properties LLC, Gibson City, Illinois, July 18, 2018.
- IEPA, 2019a. Illinois Environmental Protection Agency, *Site Investigation Completion Report Correspondence*, ABP Properties LLC, Gibson City, Illinois, June 13, 2019.
- IEPA, 2019b. Illinois Environmental Protection Agency, *Corrective Action Plan and Budget Correspondence*, ABP Properties LLC, Gibson City, Illinois, December 19, 2019.
- IEPA, 2020. Illinois Environmental Protection Agency, *Corrective Action Plan and Budget Amendment Correspondence*, ABP Properties LLC, Gibson City, Illinois, May 5, 2020.
- EPA.STATE.IL.US, 2017. Source Water Assessment Program, *Water Well Survey Map* www.maps.epa.state.il.us, accessed July 19, 2017.
- OSFM, 2016. Illinois Office of the State Fire Marshal, Permit for Removal of Underground Storage Tanks(s), ABP Properties, LLC, Gibson City, Illinois, October 13, 2016.

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APPENDIX A

CORRECTIVE ACTION PLAN FORM

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Corrective Action Plan

A. Site Identification

IEMA Incident # (6- or 8-digit): 20160917

IEPA LPC# (10-digit): 0530100002

Site Name: ABP Properties, LLC

Site Address (Not a P.O. Box): 120 West 1st Street

City: Gibson City

County: Ford

ZIP Code: 60936

B. Site Information

1. Will the owner or operator seek reimbursement from the Underground Storage Tank Fund? Yes No

2. If yes, is the budget attached? Yes No

3. Is this an amended plan? Yes No

4. Identify the material(s) released: Gasoline, Heating Oil

5. This Corrective Action Plan is submitted pursuant to:

- a. 35 Ill. Adm. Code 731.166
- b. 35 Ill. Adm. Code 732.404
- c. 35 Ill. Adm. Code 734.335

C. Proposed Methods of Remediation

1. Soil To Be Determined after proposed Excavation

2. Groundwater Groundwater Ordinance

D. Soil and Groundwater Investigation Results

(for incidents subject to 35 Ill. Adm. Code 731 only or 732 that were classified using Method One or Two, if not previously provided)

Provide the following:

1. Description of investigation activities performed to define the extents of soil and/or groundwater contamination;
2. Analytical results, chain-of-custody forms, and laboratory certifications;
3. Tables comparing analytical results to applicable remediation objectives;

4. Boring logs;
5. Monitoring well logs; and
6. Site maps meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and showing:
 - a. Soil sample locations;
 - b. Monitoring well locations; and
 - c. Plumes of soil and groundwater contamination.

E. Technical Information - Corrective Action Plan

Provide the following:

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives;
 - a. The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - b. The scope of the problems to be addressed by the proposed corrective action; and
 - c. A schedule for implementation and completion of the plan;
2. Identification of the remediation objectives proposed for the site;
3. A description of the remedial technologies selected:
 - a. The feasibility of implementing the remedial technologies;
 - b. Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved; and
 - c. A schedule of when the technologies are expected to achieve the applicable remediation objectives;
4. A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored during their implementation and after their completion;
5. A description of the current and projected future uses of the site;
6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives:
 - a. an assessment of their long-term reliability;
 - b. operating and maintenance plans; and
 - c. maps showing area covered by barriers and institutional controls;
7. The water supply well survey:
 - a. Map(s) showing locations of community water supply wells and other potable wells and the setback zone for each well;
 - b. Map(s) showing regulated recharge areas and wellhead protection areas;
 - c. Map(s) showing the current extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - d. Map(s) showing the modeled extent of groundwater contamination exceeding the most stringent Tier 1 remediation objectives;
 - e. Tables listing the setback zone for each community water supply well and other potable water supply wells;
 - f. A narrative identifying each entity contacted to identify potable water supply wells, the name and title of each person contacted, and any field observations associated with any wells identified; and
 - g. A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the survey was conducted in accordance with the requirements and that documentation submitted includes information obtained as a result of the survey (certification of this plan satisfies this requirement);

8. Appendices:
 - a. References and data sources report that are organized; and
 - b. Field logs, well logs, and reports of laboratory analyses;
9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440;
10. Engineering design specifications, diagrams, schematics, calculations, manufacturer's specifications, etc.;
11. A description of bench/pilot studies;
12. Cost comparison between proposed method of remediation and other methods of remediation;
13. For the proposed Tier 2 or 3 remediation objectives, provide the following:
 - a. The equations used;
 - b. A discussion of how input variables were determined;
 - c. Map(s) depicting distances used in equations; and
 - d. Calculations; and
14. Provide documentation to demonstrate the following for alternative technologies:
 - a. The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives;
 - b. The proposed alternative technology will not adversely affect human health and safety or the environment;
 - c. The owner or operator will obtain all Illinois EPA permits necessary to legally authorize use of the alternative technology;
 - d. The owner or operator will implement a program to monitor whether the requirements of subsection (14)(a) have been met;
 - e. Within one year from the date of Illinois EPA approval, the owner or operator will provide to the Illinois EPA monitoring program results establishing whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (14)(a); and
 - f. Demonstration that the cost of alternative technology will not exceed the cost of conventional technology and is not substantially higher than at least two other alternative technologies, if available and technically feasible.

5. Exposure Pathway Exclusion

Provide the following:

1. A description of the tests to be performed in determining whether the following requirements will be met:
 - a. Attenuation capacity of the soil will not be exceeded for any of the organic contaminants;
 - b. Soil saturation limit will not be exceeded for any of the organic contaminants;
 - c. Contaminated soils do not exhibit any of the reactivity characteristics of hazardous waste per 35 Ill. Adm. Code 721.123;
 - d. Contaminated soils do not exhibit a $\text{pH} \leq 2.0$ or ≥ 12.5 ; and
 - e. Contaminated soils which contain arsenic, barium, cadmium, chromium, lead, mercury, or selenium (or their associated salts) do not exhibit any of the toxicity characteristics of hazardous waste per 35 Ill. Adm. Code 721.124.
2. A discussion of how any exposure pathways are to be excluded.

G. Signatures

All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.

UST Owner or Operator

Name ABP Properties, LLC
Contact Dr. Yogi Bhardwaj
Address 159 N. Greenleaf St #2, PO Box 8374
City Gurnee
State Illinois
Zip Code 60031
Phone _____
Signature *[Signature]*
Date 8/6/21

Consultant

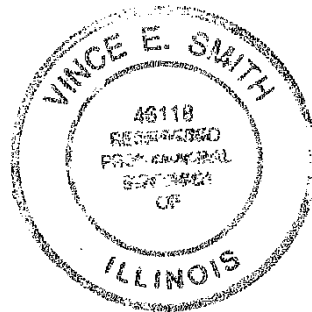
Company CWM Company, Inc.
Contact Carol Rowe, P.G.
Address 701 West South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone (217) 522-8001
Signature *[Signature]*
Date October 7/2021
Email CWM@CWMCompany.com

I certify under penalty of law that all activities that are the subject of this plan were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this plan has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 731, 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

Licensed Professional Engineer or Geologist

Name Vince E. Smith
Company CWM Company, Inc.
Address 701 West South Grand Avenue
City Springfield
State Illinois
Zip Code 62704
Phone 217-522-8001
Ill. Registration No. 062-046118
License Expiration Date 11/30/21
Signature *[Signature]*
Date 8/30/21

L.P.E. or L.P.G. Seal



CW³M Company, Inc.
Corrective Action Plan and Budget Amendment
ABP Properties, LLC
LPC # 0530100002 – Incident Number 2016-0917

APPENDIX B

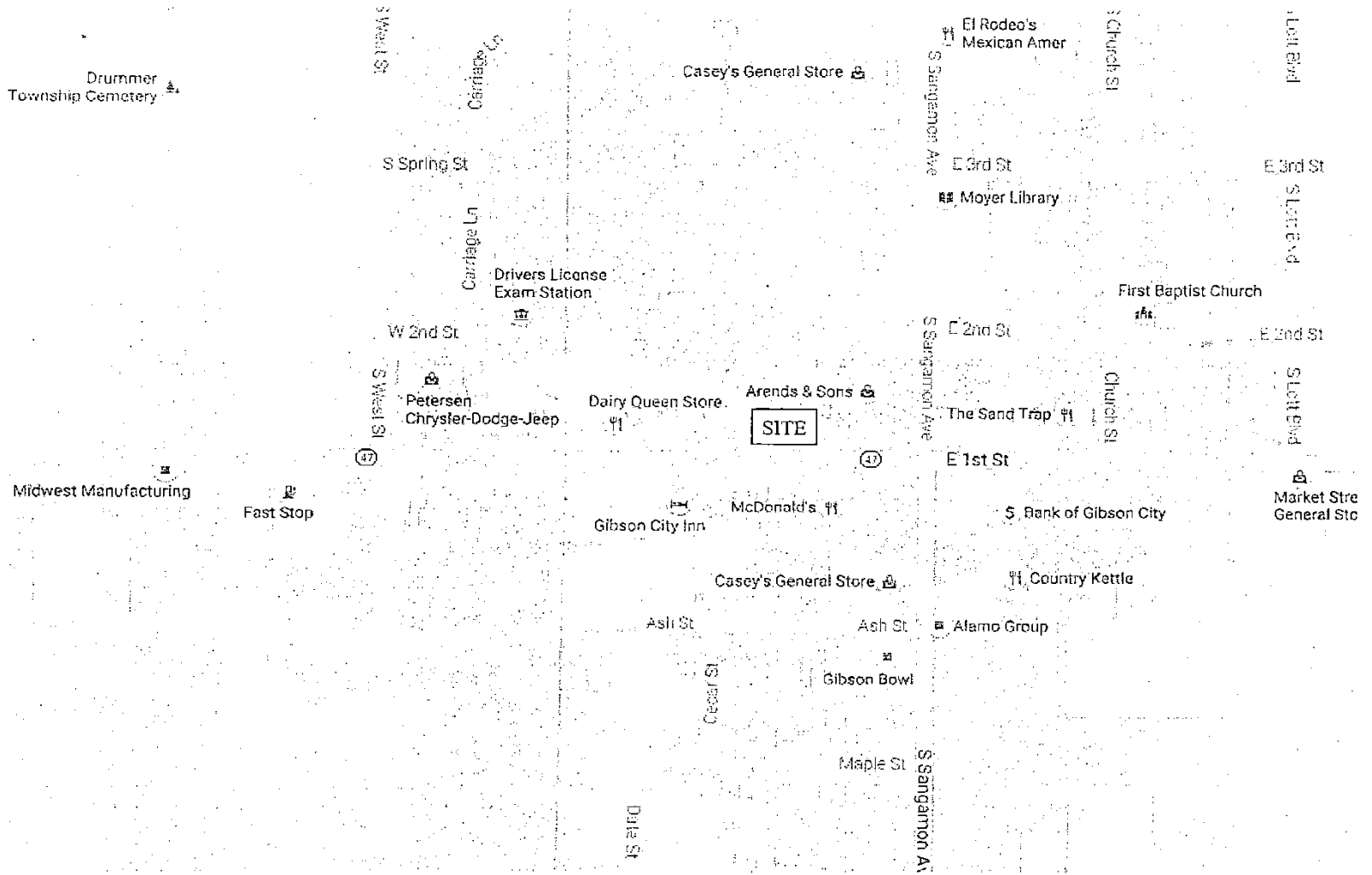
SITE MAPS AND ILLUSTRATIONS

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

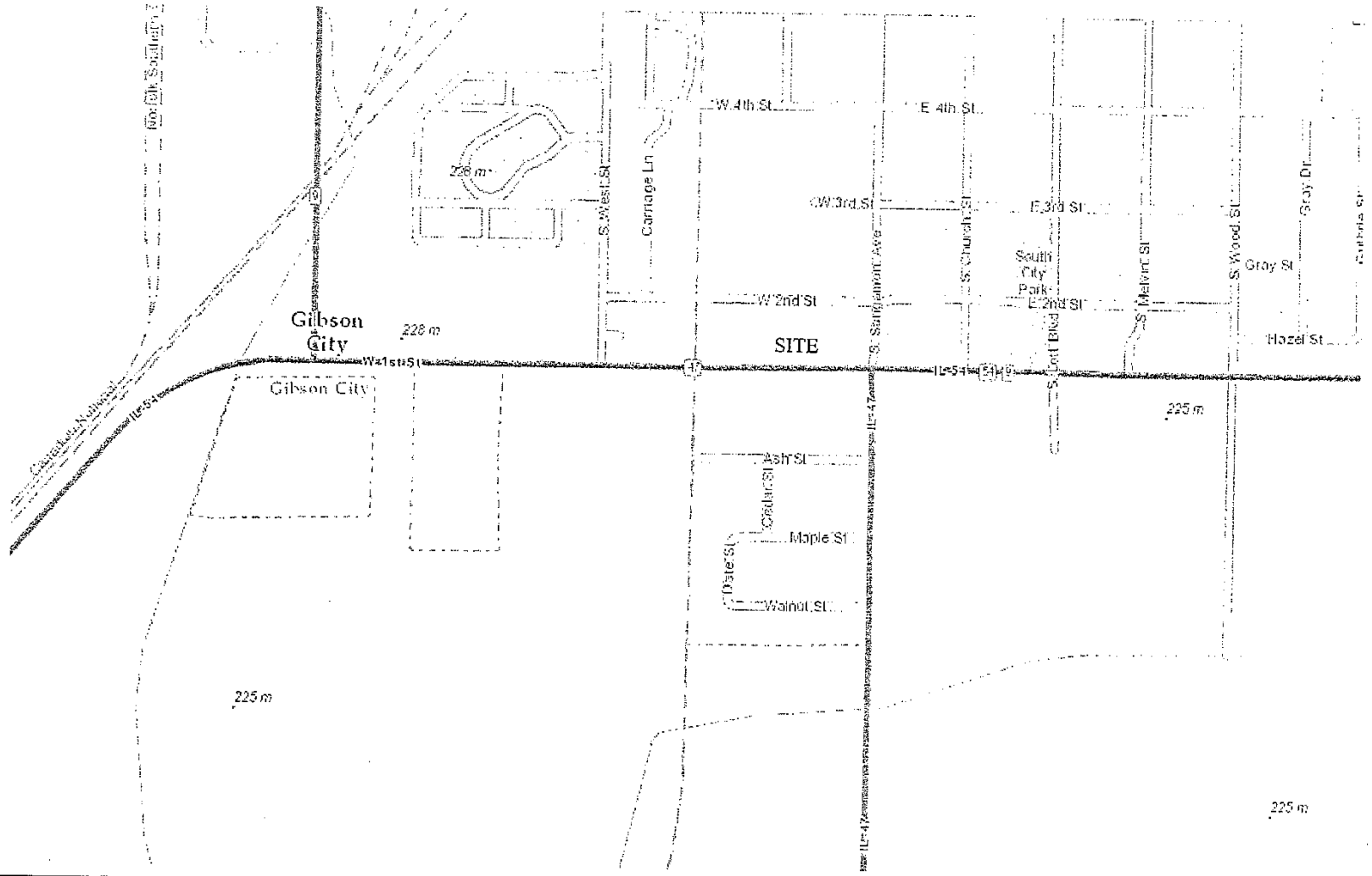
CW³M Company, Inc.
Corrective Action Plan and Budget Amendment
ABP Properties, LLC
LPC # 0530100002 – Incident Number 2016-0917

INDEX OF DRAWINGS

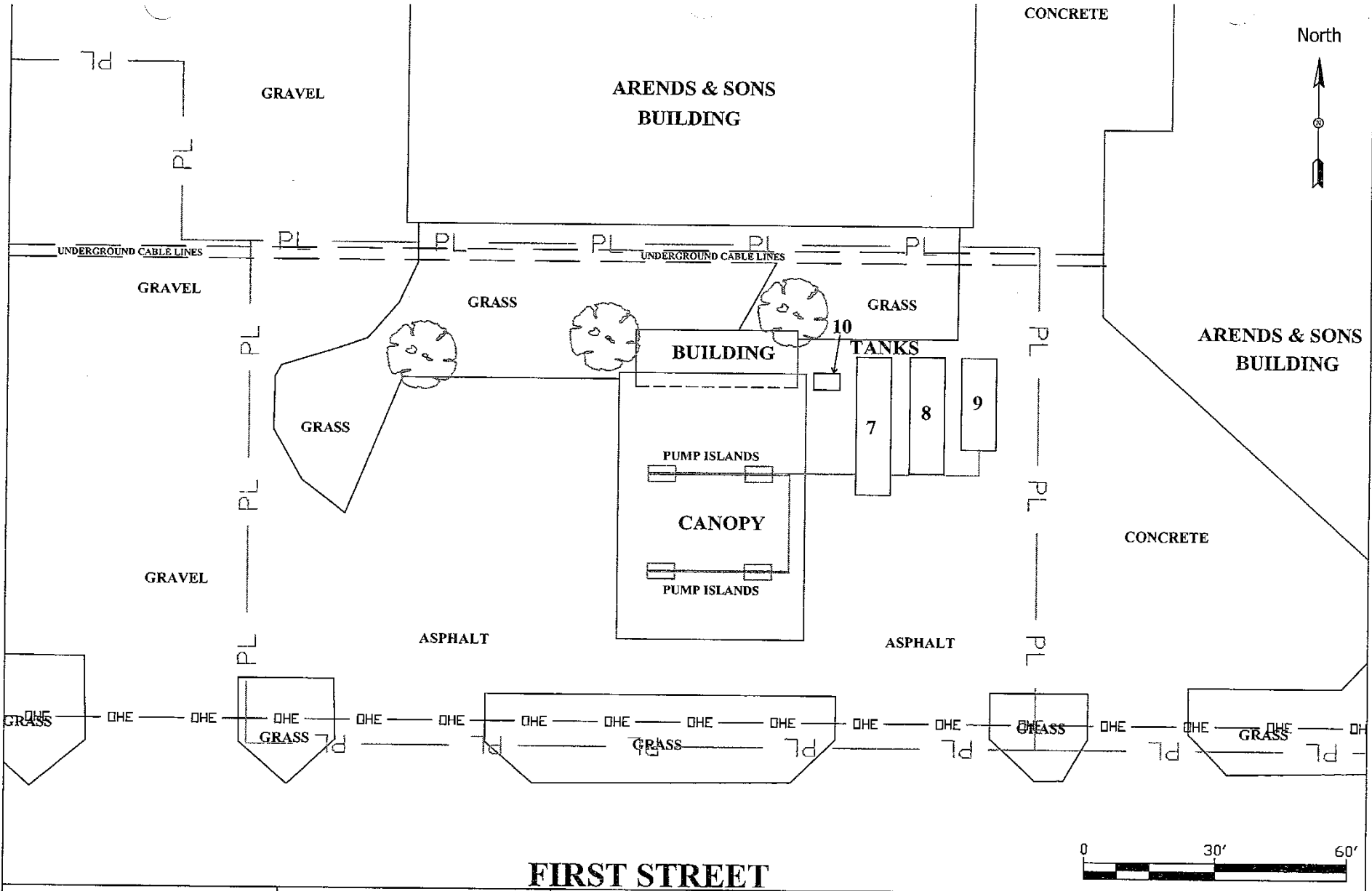
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0001F	Topographic Map	TopoMap.doc
0002	Site Map	Site.dwg
0003	Soil Boring Location Map	SBLoc.dwg
0004	Monitoring Well Location Map	MWLoc.dwg
0005	Monitoring Well Elevation Map	MWElev.dwg
0006	Groundwater Flow Map (March 2017)	GW0317.dwg
0007A	Soil Contamination Values Map (0-5 Feet)	Sval0-5.dwg
0007B	Soil Contamination Values Map (5-10 Feet)	Sval5-10.dwg
0008	Groundwater Contamination Values Map	GWcont.dwg
0009	Soil Contamination Plume Map	SPlume.dwg
0010	Groundwater Contamination Plume Map	GWPlume.dwg
0011	TACO Parameters Map	TACO.dwg
0012	Proposed Soil Boring / Monitoring Well Replacement Map	PSB-RMW.dwg
0013	Proposed Excavation Location Map	PExcav.dwg
0014	Concrete Replacement Location Map	Concrete.dwg
0015	R-26 Modeling Map	R26.dwg
0016	Groundwater Ordinance Map	GWOrd.dwg
0017	Proposed Excavation Soil Sampling Location Map	PSS.dwg



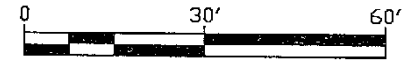
<p>CW³M Company, Inc. 701 South Grand Avenue West Springfield, IL 62704 (217)-522-8001</p>	<p>Site Location Map 120 W. 1st Street Gibson City, Illinois</p>	<p>Drawn By: MJS Reviewed By: CLR Drawing 0001A SiteMap.doc</p>
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<p>CW³M Company, Inc. 701 South Grand Avenue West Springfield, IL 62704 (217)-522-8001</p>	<p>Topographic Map 120 W. 1st Street Gibson City, Illinois</p>	<p>Drawn By: MJS Reviewed By: CLR Drawing 0001F TopoMap.doc</p>
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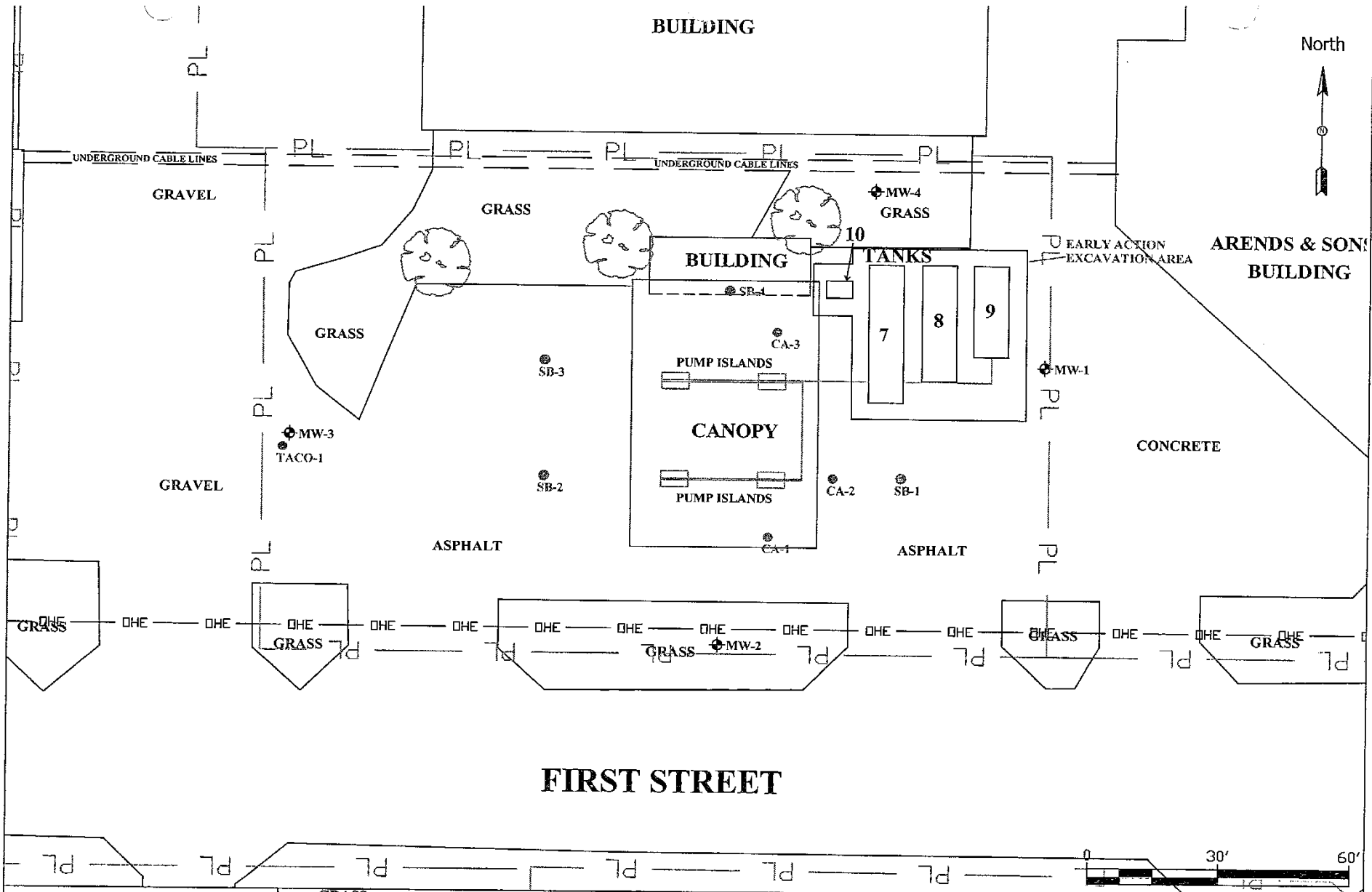


FIRST STREET



<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>SITE MAP</p>	<p>DATE: 11/28/16 REVISED DATE: 8/26/2021 SCALE 1"=30' DRAWING: 0002</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR SITE.DWG</p>
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000030



FIRST STREET

CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

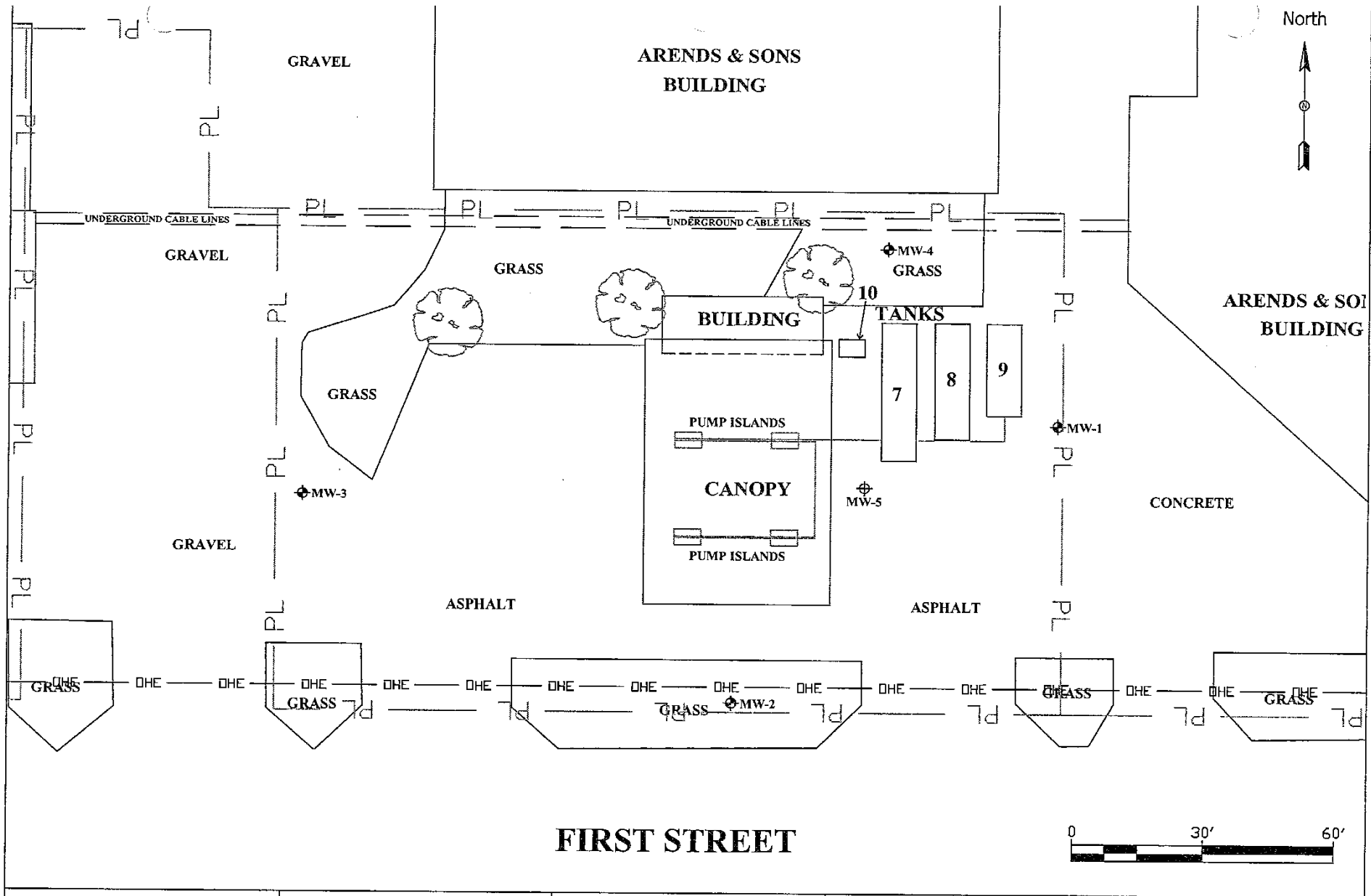
ABP PROPERTIES, LLC
 GIBSON CITY, ILLINOIS
 INCIDENT #2016-0917
 FORD COUNTY

SOIL BORING LOCATION MAP

DATE: 11/28/16
 REVISED DATE: 8/26/2021
 SCALE 1"=30'
 DRAWING: 0003

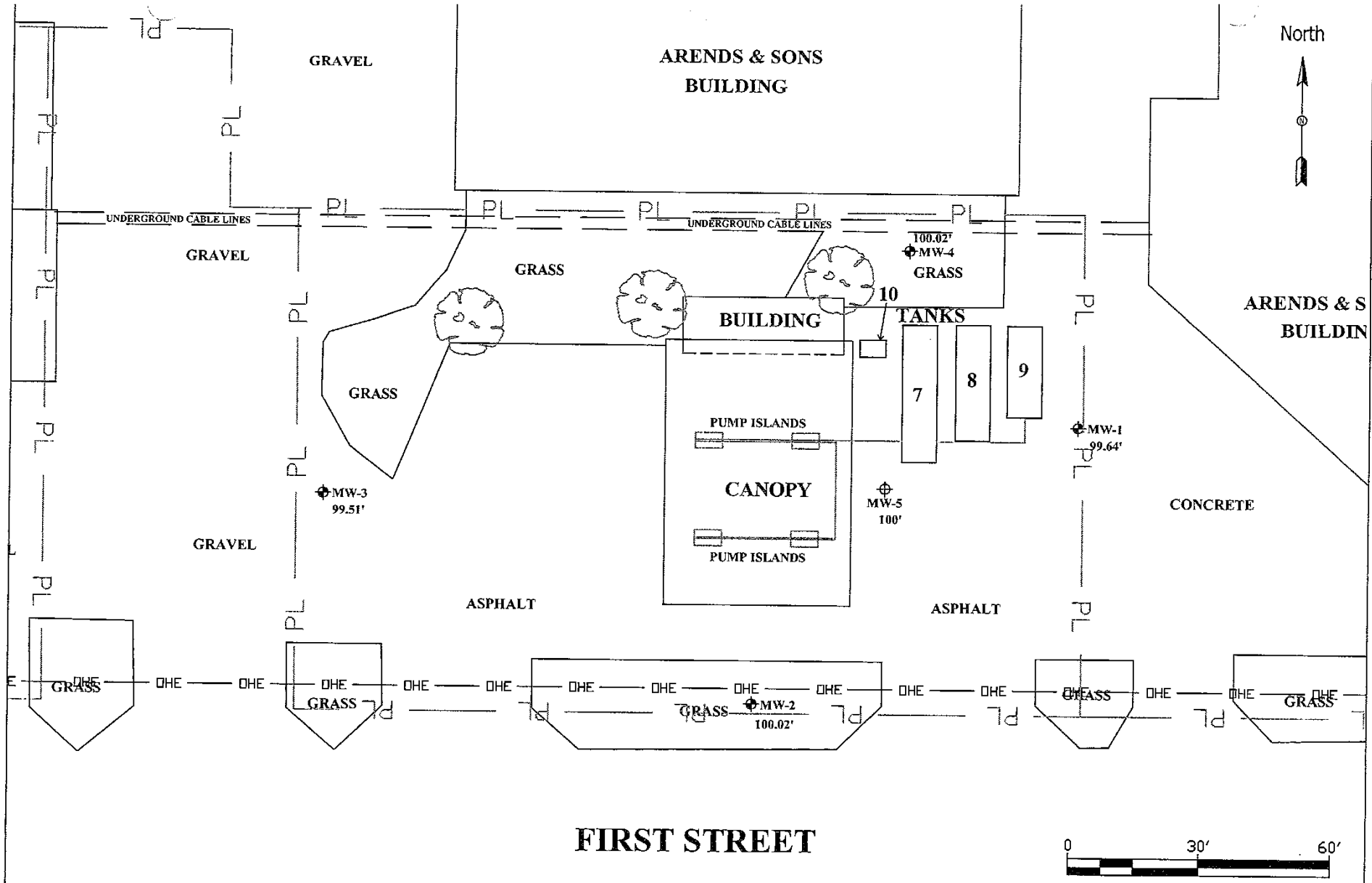
DRAWN BY: MJS
 REVISED BY: JKK
 REVIEWED BY: CLR
 SBLoc.DWG

000031



<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>MONITORING WELL LOCATION MAP</p>	<p>DATE: 6/8/15 REVISED DATE: 8/26/2021 SCALE 1"=30' DRAWING: 0004</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR MWLoc.DWG</p>
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000032



FIRST STREET

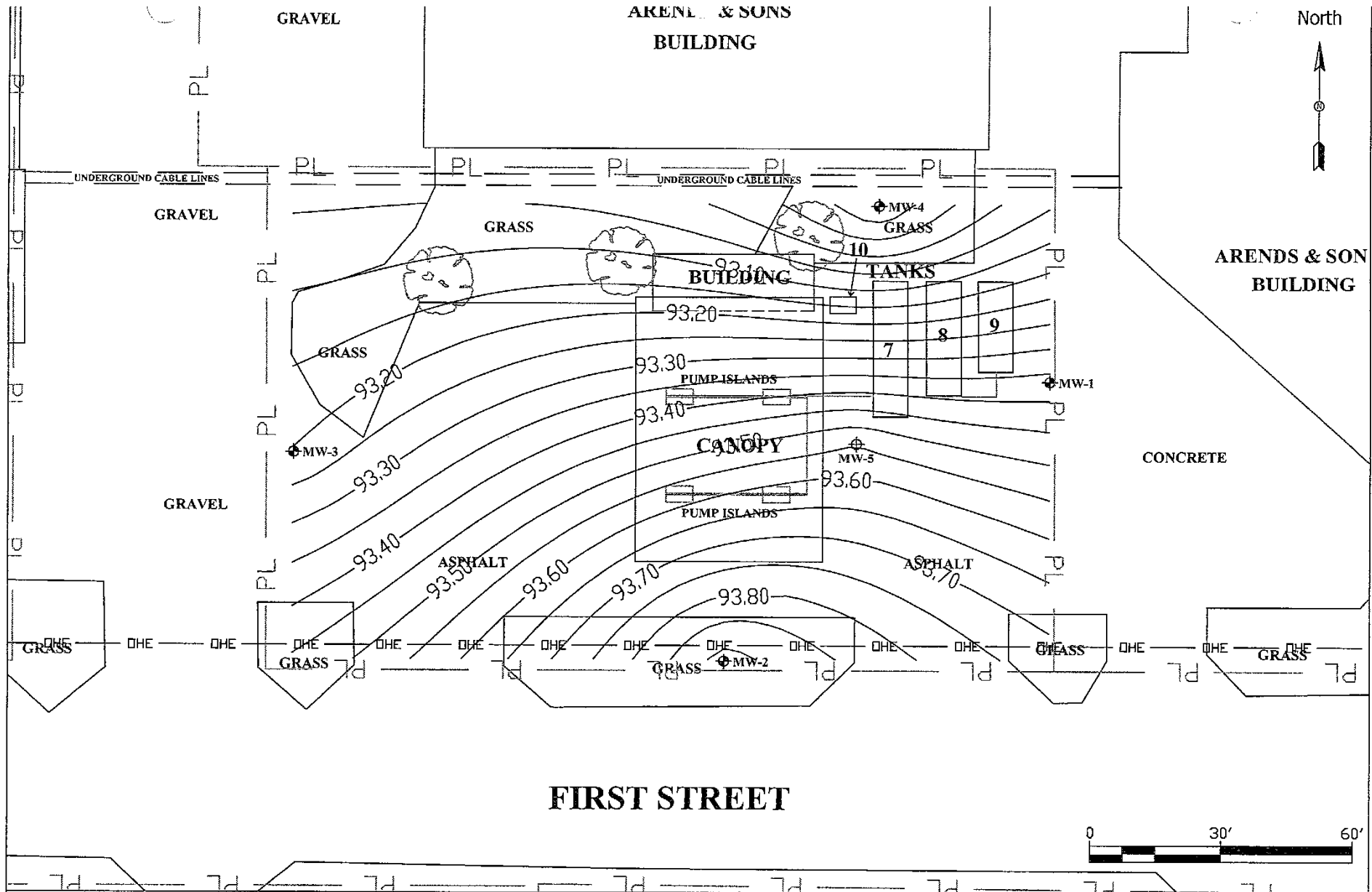
CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS
INCIDENT #2016-0917
FORD COUNTY

**MONITORING WELL
ELEVATION MAP**

DATE: 6/8/15
REVISED DATE: 8/26/2021
SCALE 1"=30'
DRAWING: 0005

DRAWN BY: MJS
REVISED BY: JKK
REVIEWED BY: CLR
MWElev.DWG



FIRST STREET

CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

ABP PROPERTIES, LLC
 GIBSON CITY, ILLINOIS
 INCIDENT #2016-0917
 FORD COUNTY

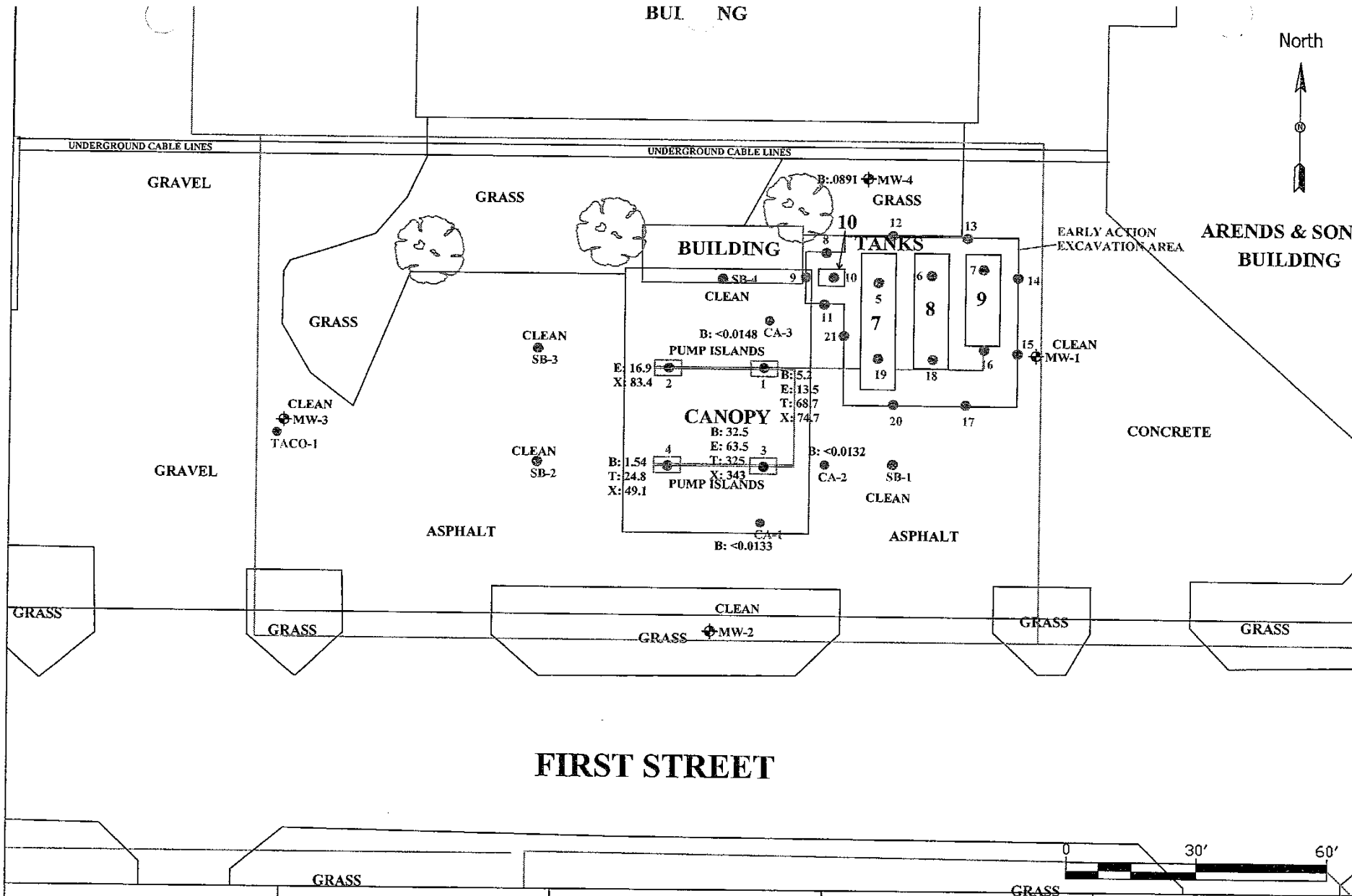
GROUNDWATER FLOW
 MAP (MARCH 2017)

DATE: 4/1/17
 REVISED DATE: 6/25/2021
 SCALE 1"=30'
 DRAWING: 0006

DRAWN BY: MJS
 REVISED BY: JKK
 REVIEWED BY: CLR
 GW0317.DWG

000034

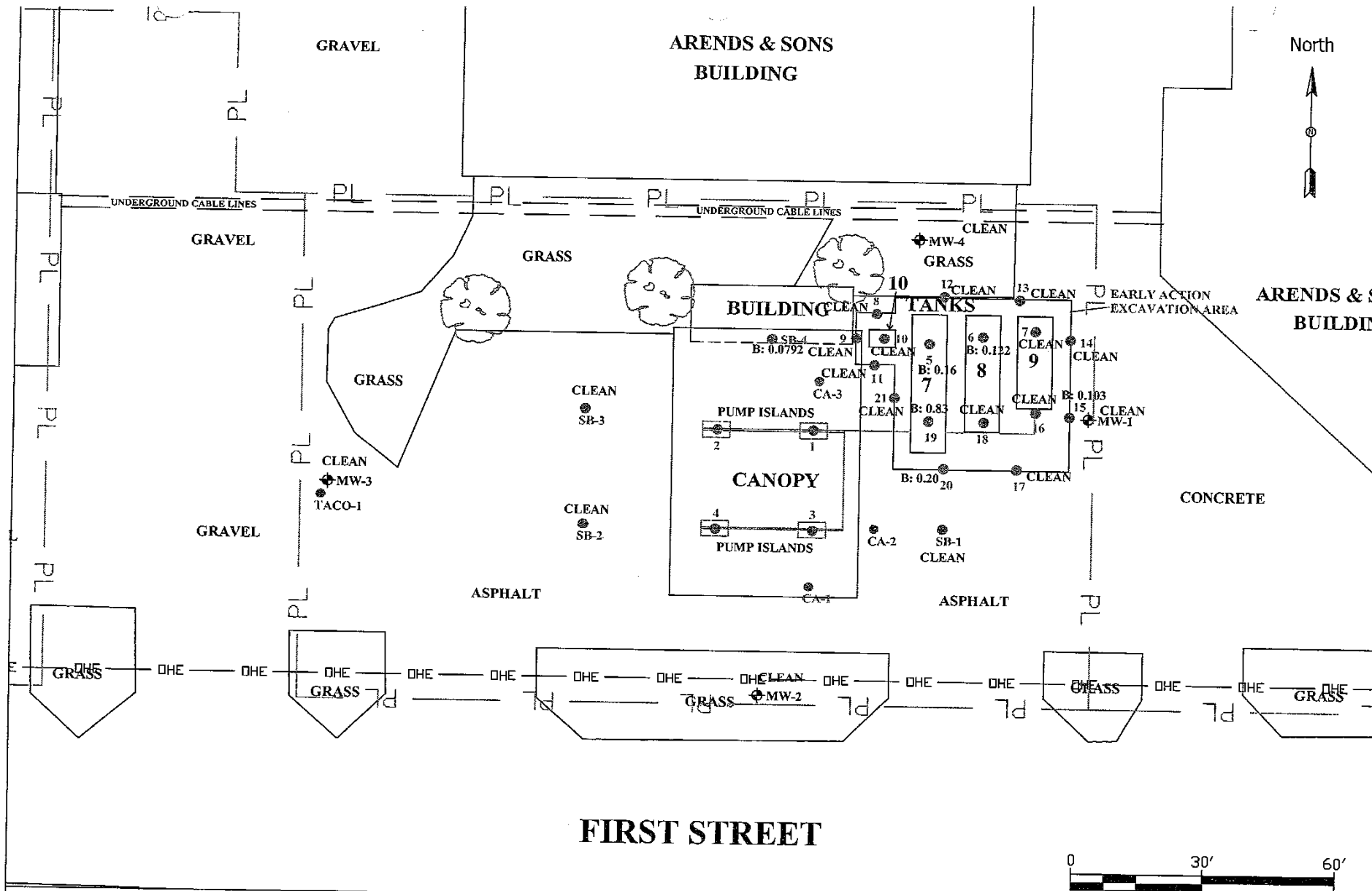
Electronic Filing: Received, Clerk's Office 07/24/2024



Electronic Filing: Received, Clerk's Office 07/24/2024

000035

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>SOIL CONTAMINATION VALUES MAP (0-5 FEET)</p>	<p>DATE: 12/7/16 REVISED DATE: 8/26/2021 SCALE 1"=30' DRAWING: 0007A</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR Sval0-5.DWG</p>
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FIRST STREET

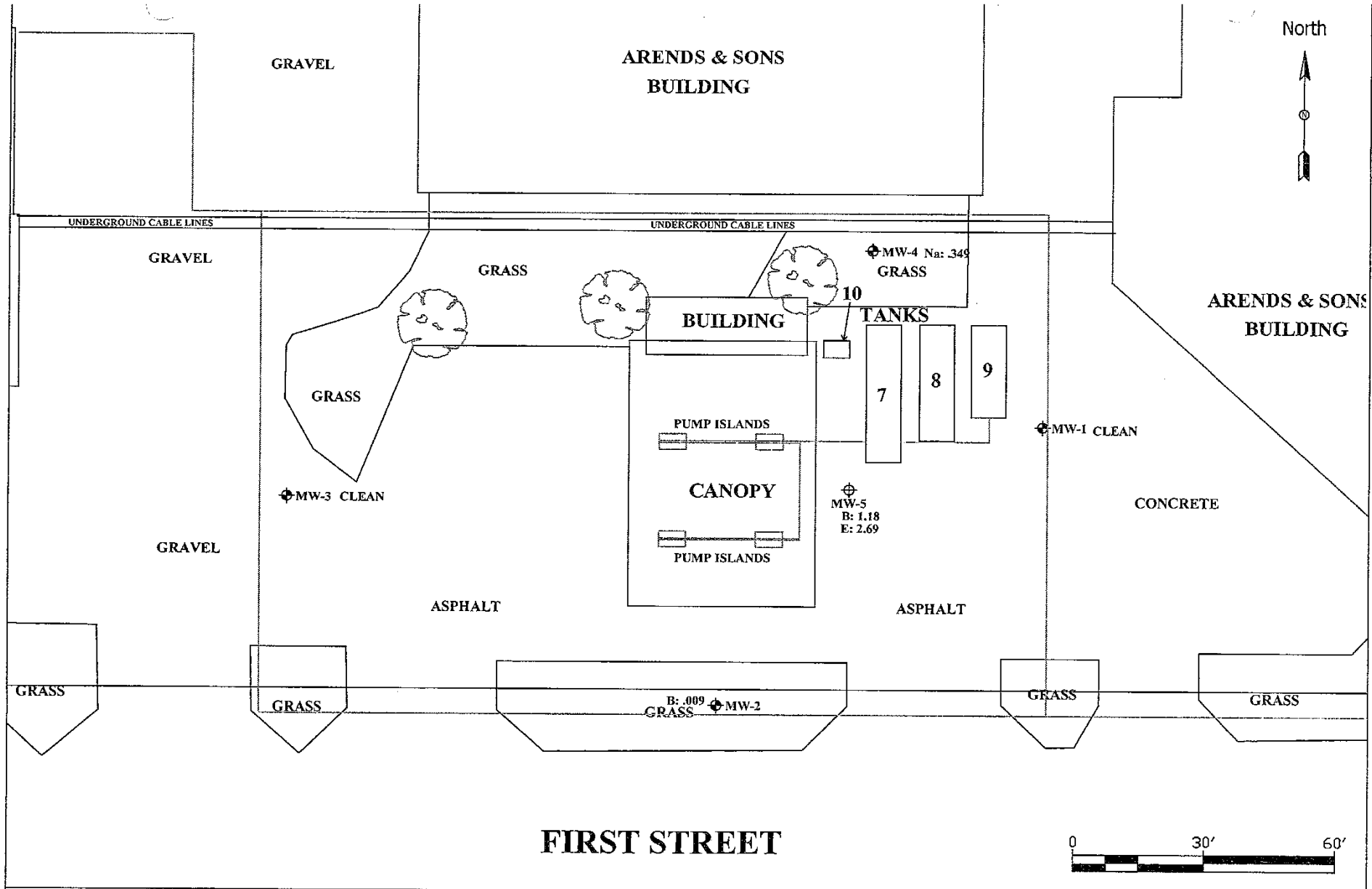
CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS
INCIDENT #2016-0917
FORD COUNTY

SOIL CONTAMINATION
VALUES MAP (5-10 FEET)

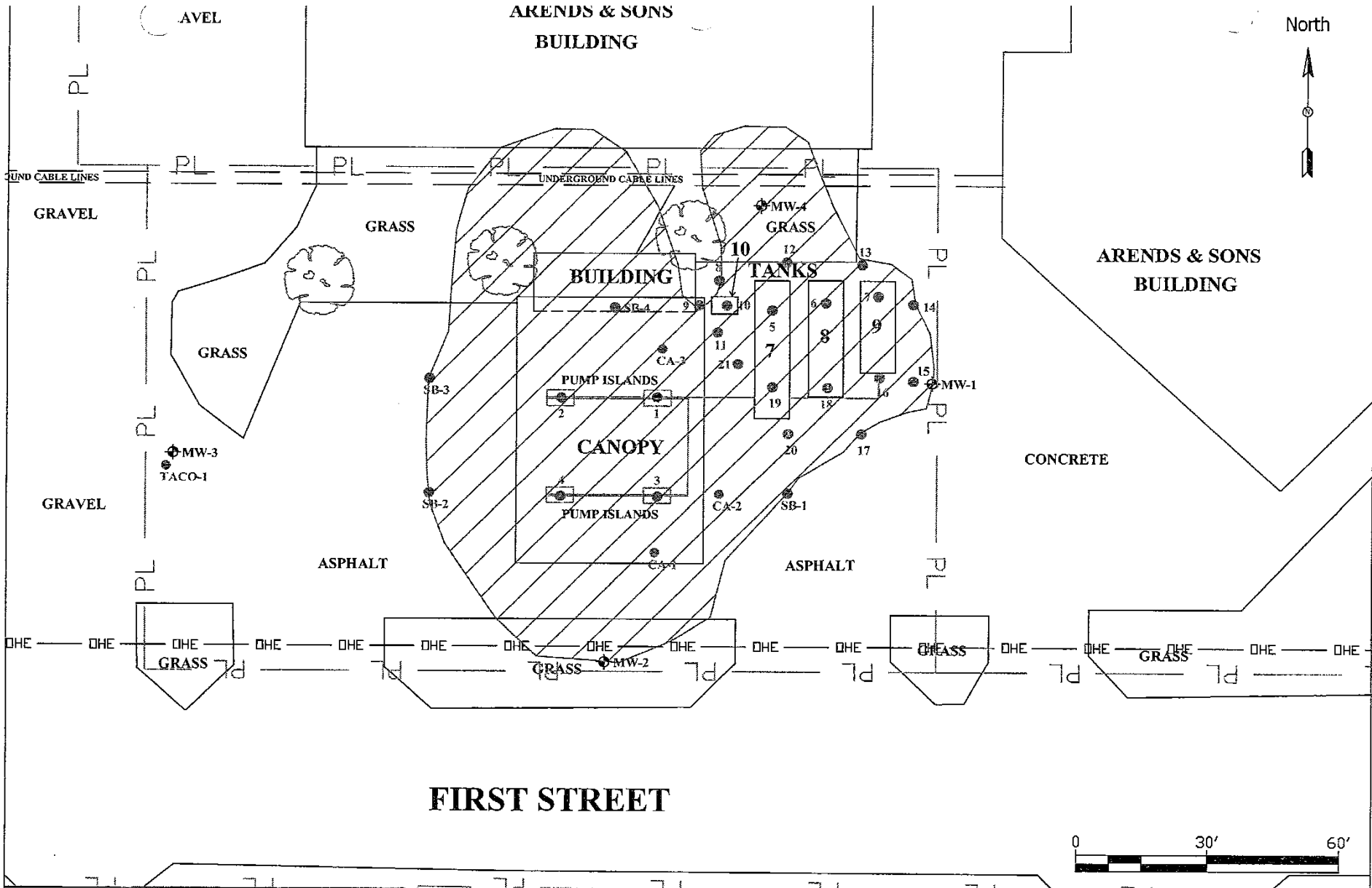
DATE: 12/7/16
REVISED DATE: 8/26/2021
SCALE 1"=30'
DRAWING: 0007B

DRAWN BY: MJS
REVISED BY: JKK
REVIEWED BY: CLR
Sval5-10.DWG



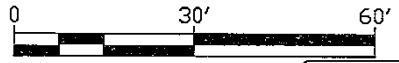
<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>GROUNDWATER CONTAMINATION VALUES MAP</p>	<p>DATE: 12/7/16 REVISED DATE: 8/26/2021 SCALE 1"=30' DRAWING: 0008</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR GWcont.DWG</p>
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000037



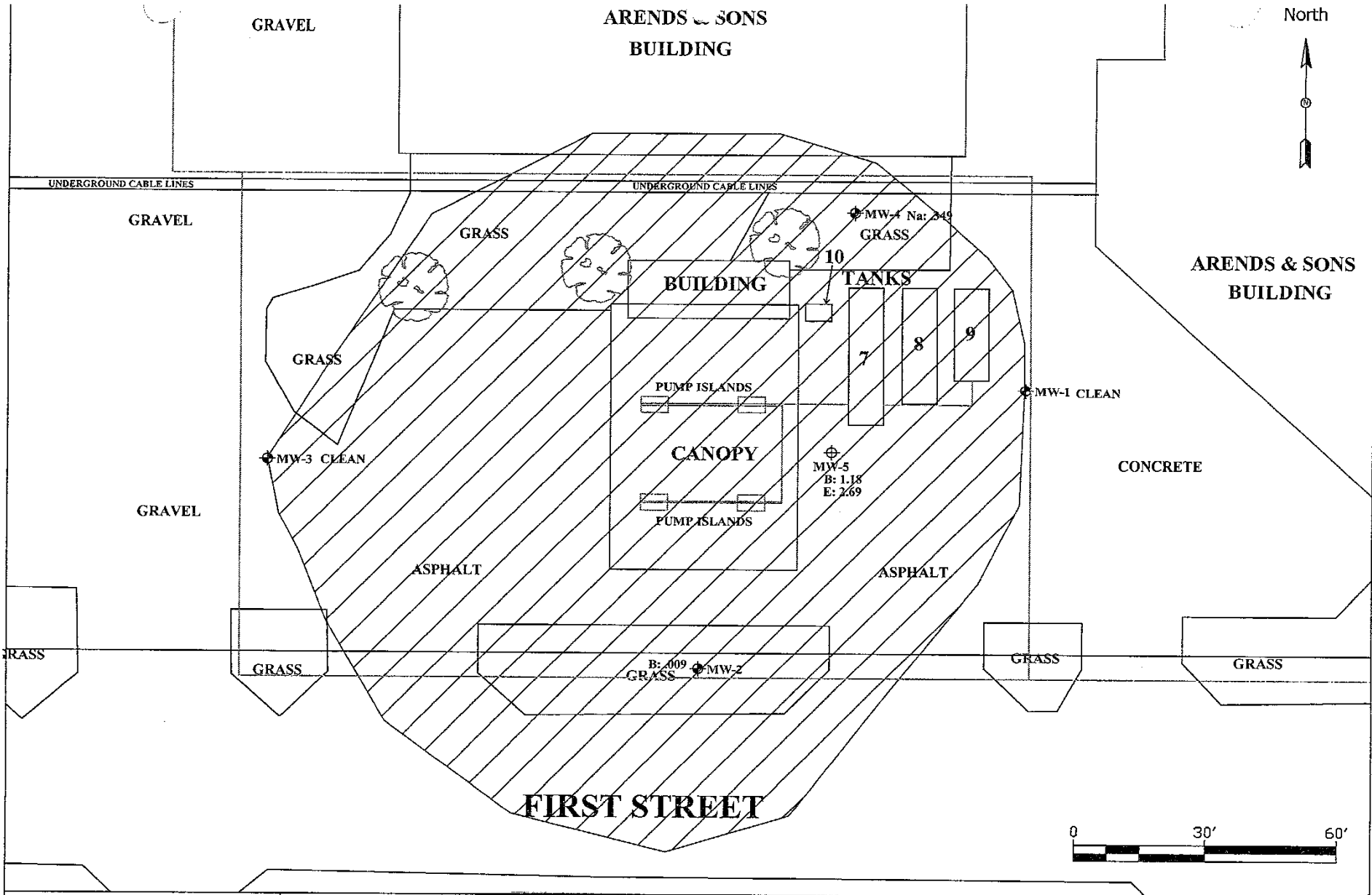
Electronic Filing: Received, Clerk's Office 07/24/2024

FIRST STREET



<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>SOIL CONTAMINATION PLUME MAP</p>	<p>DATE: 1/14/19 REVISED DATE: 8/26/2021 SCALE 1"=30' DRAWING: 0009</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR SPlume.DWG</p>
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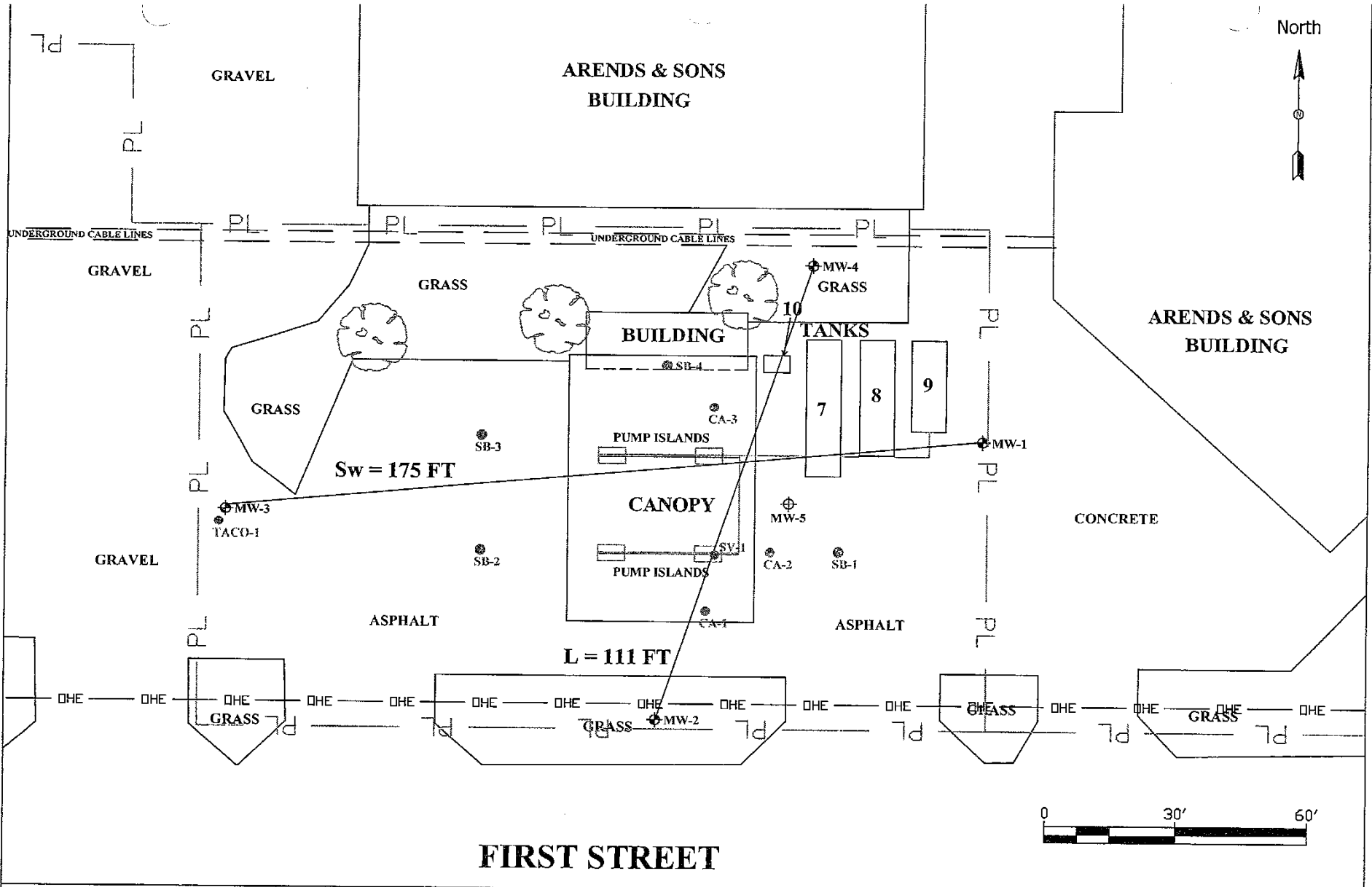
000038



Electronic Filing: Received, Clerk's Office 07/24/2024

000039

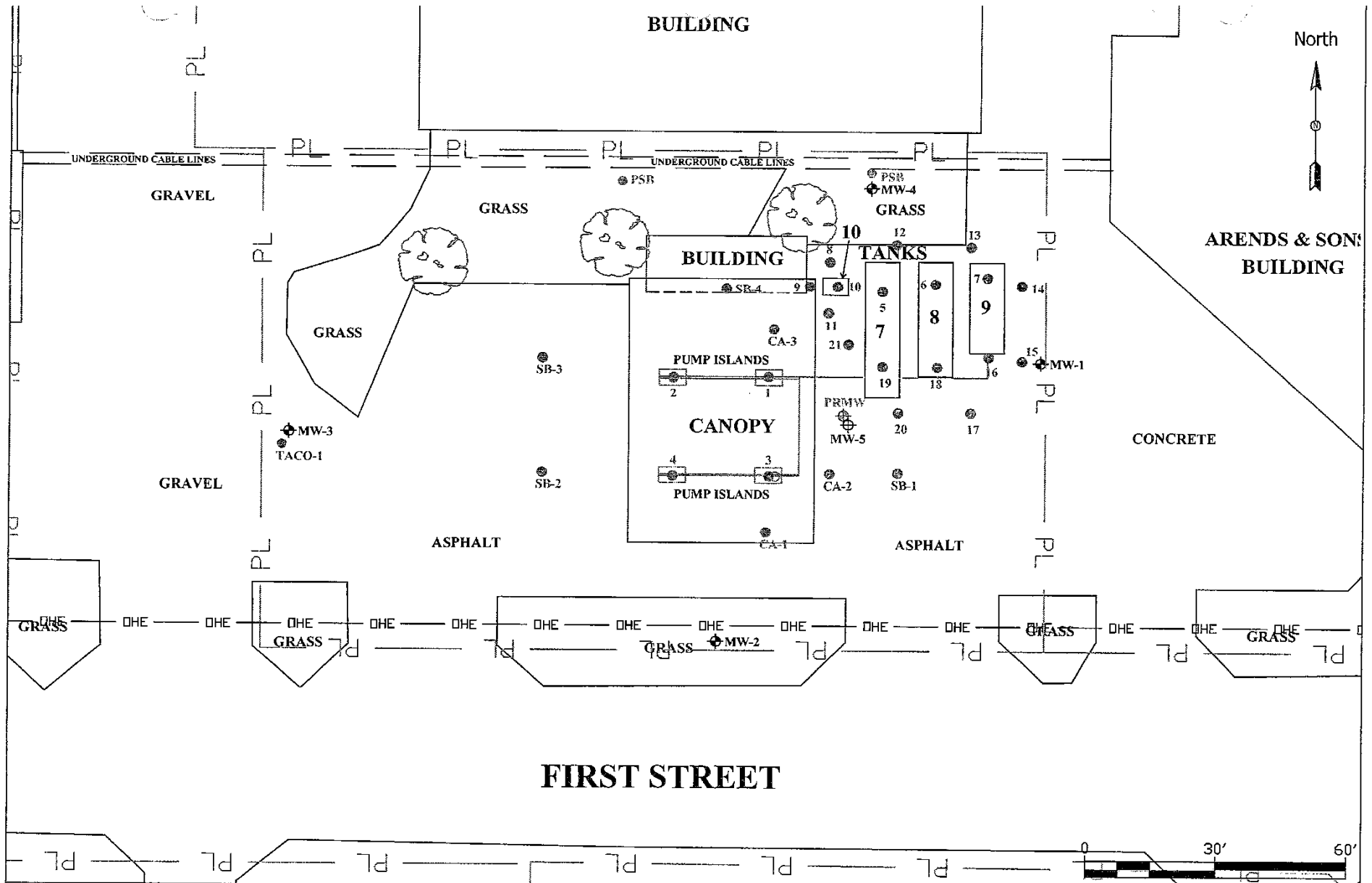
<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>GROUNDWATER CONTAMINATION PLUME MAP</p>	<p>DATE: 1/14/19 REVISED DATE: 6/25/2021 SCALE 1"=30' DRAWING: 0010</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR GWPlume.DWG</p>
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FIRST STREET

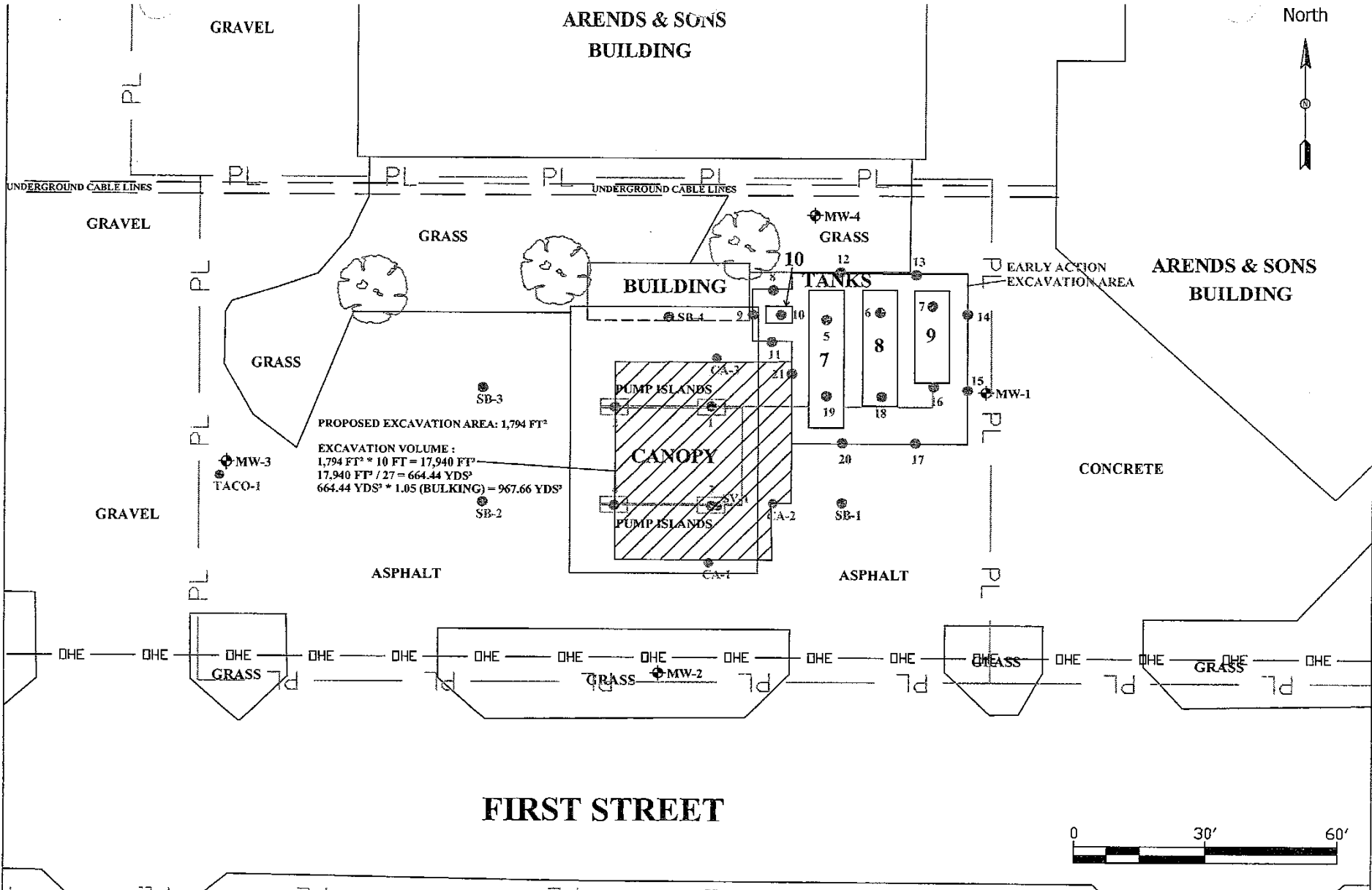
<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>TACO PARAMETERS MAP</p>	<p>DATE: 8/2/19 REVISED DATE: 6/25/2021 SCALE 1"=30' DRAWING: 0011</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR TACO.DWG</p>
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000040



<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>PROPOSED SOIL BORING/ MONITORING WELL REPLACEMENT LOCATION MAP</p>	<p>DATE: 8/26/2021 REVISED DATE: SCALE 1"=30' DRAWING: 0012</p>	<p>DRAWN BY: JKK REVISED BY: REVIEWED BY: CLR PSB-RMW.DWG</p>
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000041



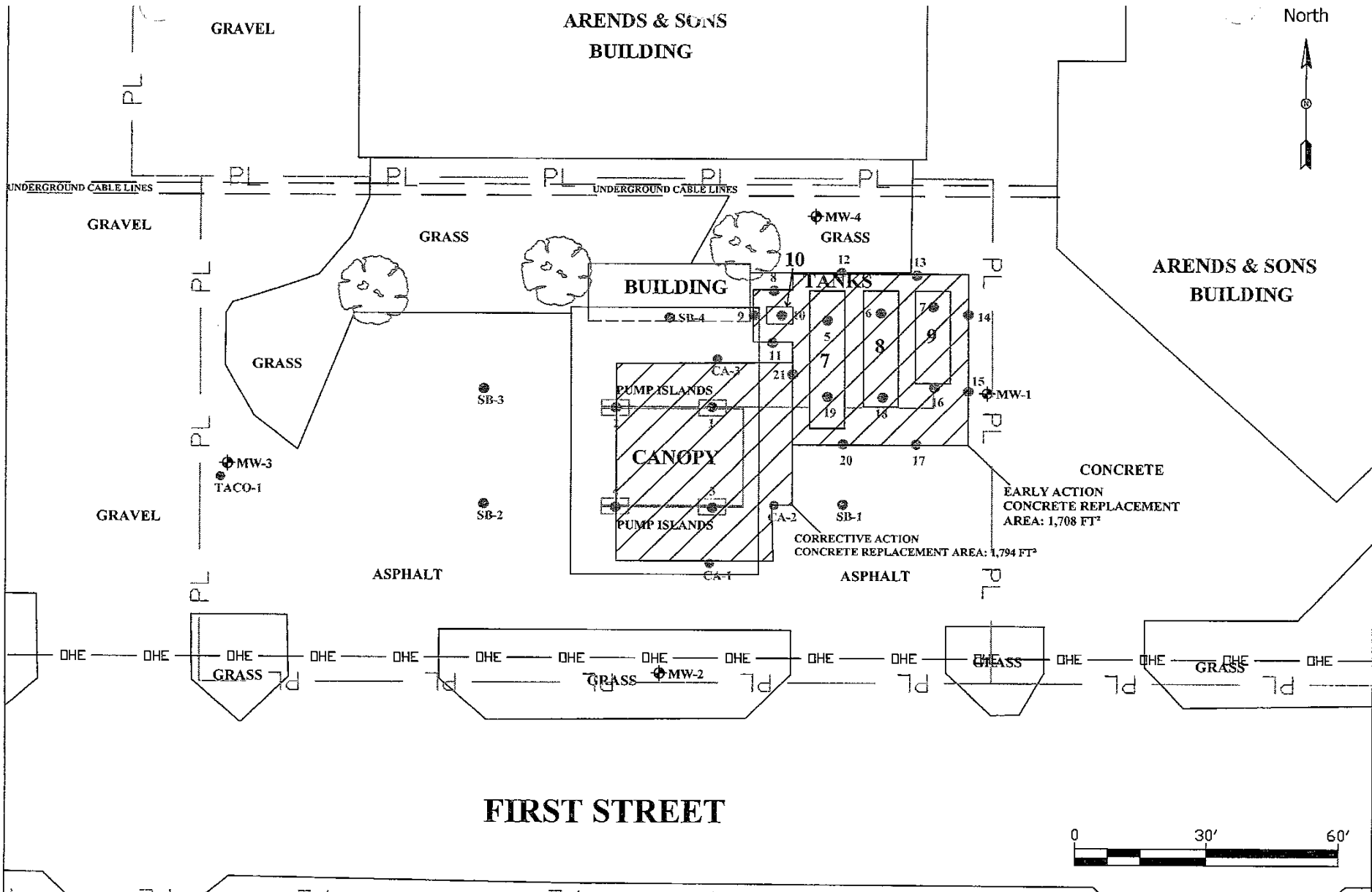
CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

ABP PROPERTIES, LLC
 GIBSON CITY, ILLINOIS
 INCIDENT #2016-0917
 FORD COUNTY

**PROPOSED EXCAVATION
 LOCATION MAP**

DATE: 8/26/21
REVISED DATE:
SCALE 1"=30'
DRAWING: 0013

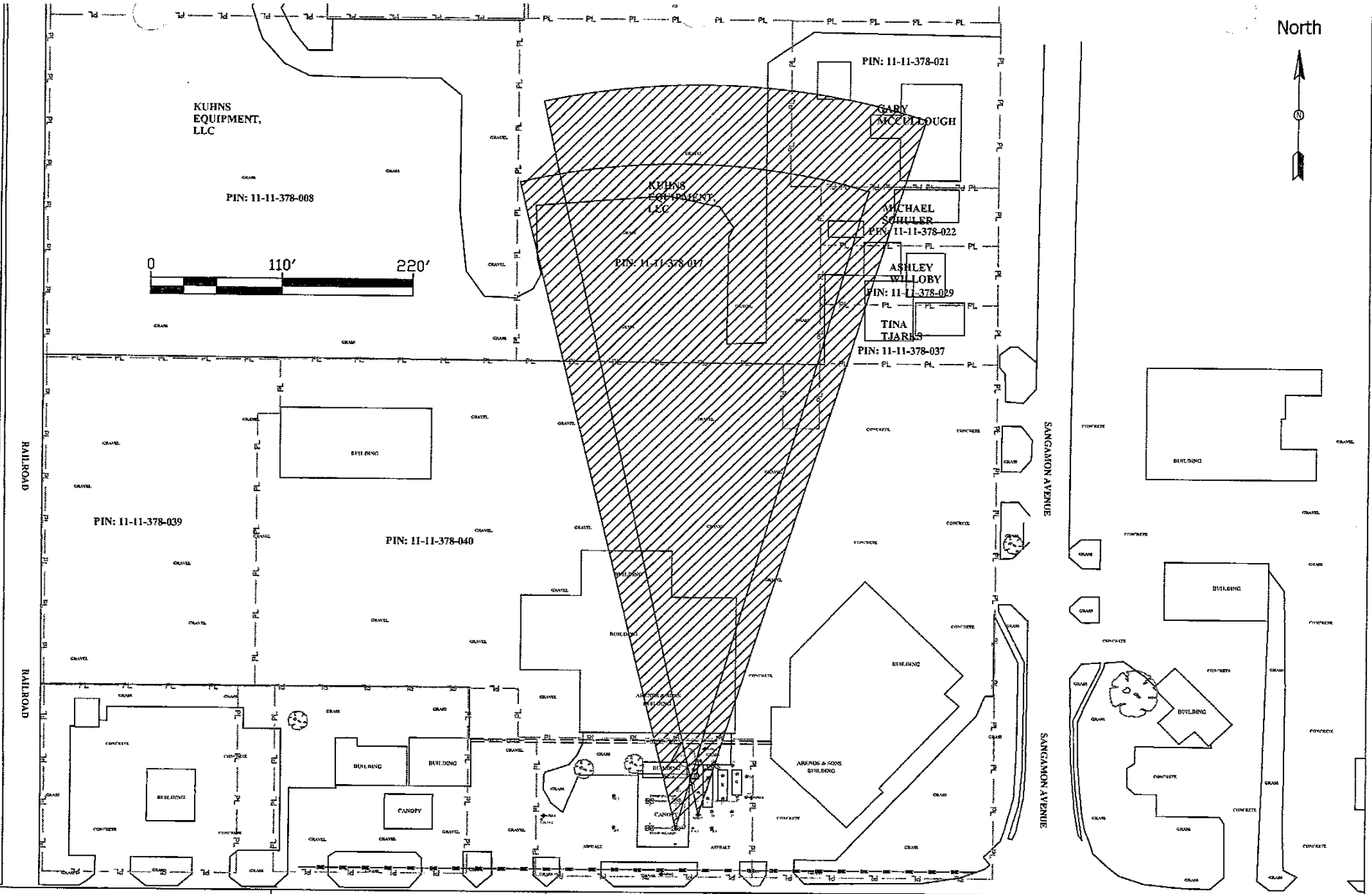
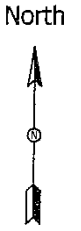
DRAWN BY: JKK
REVISED BY:
REVIEWED BY: CLR
PExcav.DWG



Electronic Filing: Received, Clerk's Office 07/24/2024

000043

<p>CWM COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>CONCRETE REPLACEMENT LOCATION MAP</p>	<p>DATE: 8/26/21 REVISED DATE: SCALE 1"=30' DRAWING: 0014</p>	<p>DRAWN BY: JKK REVISED BY: REVIEWED BY: CLR Concrete.DWG</p>
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CWM COMPANY, INC.
 701 W. SOUTH GRAND
 SPRINGFIELD, IL. 62704
 (217) 522-8001

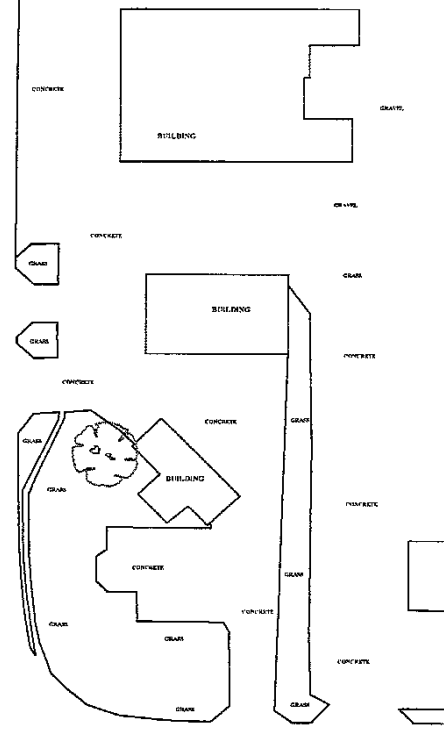
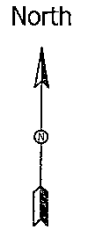
ABP PROPERTIES, LLC
 GIBSON CITY, ILLINOIS
 INCIDENT #2016-0917
 FORD COUNTY

R-26 MODELING MAP

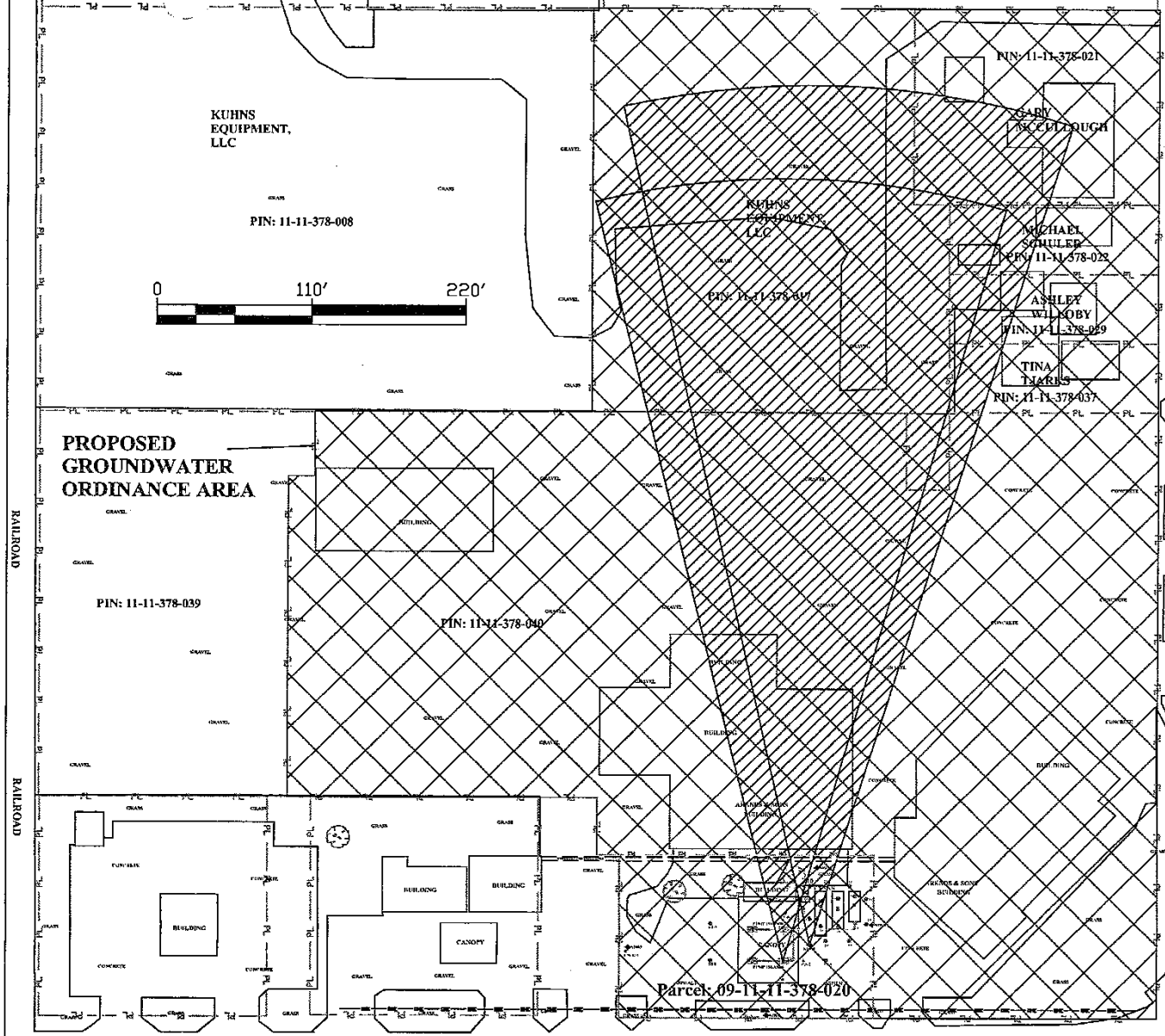
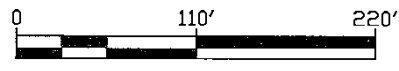
DATE: 8/26/2021
REVISED DATE:
SCALE 1"=110'
DRAWING: 0015

DRAWN BY: JKK
REVISED BY:
REVIEWED BY: CLR
R26.DWG

000044



SANGAMON AVENUE
SANGAMON AVENUE



**PROPOSED
GROUNDWATER
ORDINANCE AREA**

KUHNS
EQUIPMENT,
LLC

PIN: 11-11-378-008

PIN: 11-11-378-021

SABY
ASCLETTROUGH

KUHNS
EQUIPMENT
LLC

PIN: 11-11-378-017

MICHAEL
SCHULER
PIN: 11-11-378-022

ASHLEY
WILCOBY
PIN: 11-11-378-019

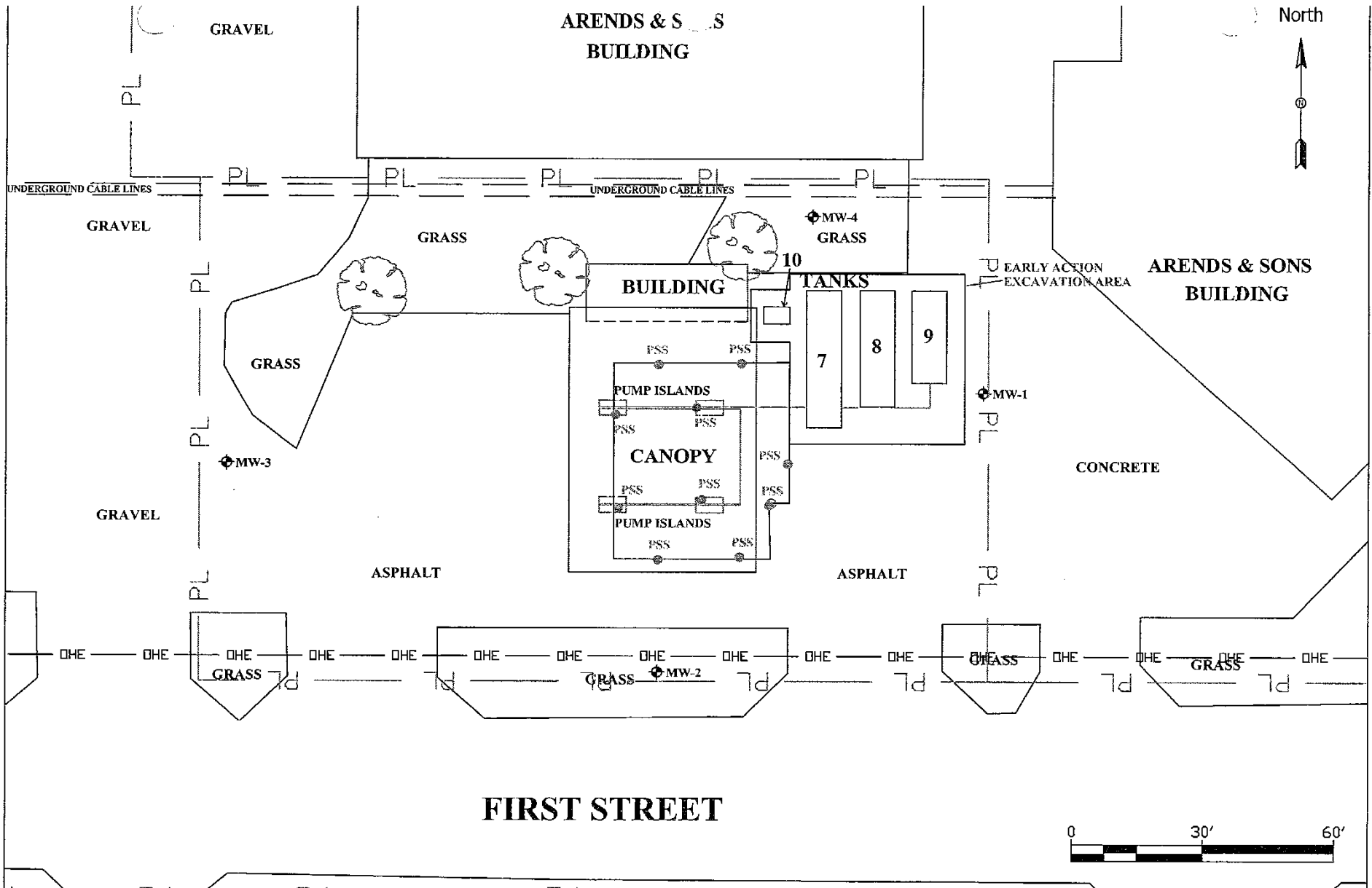
TINA
MARRIS
PIN: 11-11-378-037

PIN: 11-11-378-039

PIN: 11-11-378-040

Parcel: 09-11-11-378-020

<p>CW[®]M COMPANY, INC. 701 W. SOUTH GRAND SPRINGFIELD, IL. 62704 (217) 522-8001</p>	<p>ABP PROPERTIES, LLC GIBSON CITY, ILLINOIS INCIDENT #2016-0917 FORD COUNTY</p>	<p>GROUNDWATER ORDINANCE MAP</p>	<p>DATE: 8/2/2019 REVISED DATE: 8/26/2021 SCALE 1"=110' DRAWING: 0016</p>	<p>DRAWN BY: MJS REVISED BY: JKK REVIEWED BY: CLR GWORD.DWG</p>
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FIRST STREET

CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS
INCIDENT #2016-0917
FORD COUNTY

**PROPOSED EXCAVATION
SOIL SAMPLING
LOCATION MAP**

DATE: 8/26/21
REVISED DATE:
SCALE 1"=30'
DRAWING: 0017

DRAWN BY: JKK
REVISED BY:
REVIEWED BY: CLR
PSS.DWG

000046

Electronic Filing: Received, Clerk's Office 07/24/2024

APPENDIX C

OSFM ELIGIBILITY DETERMINATION

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

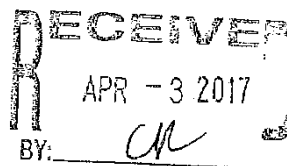


Office of the Illinois
State Fire Marshal

4/3/2017

ABP Properties, LLC
159 N Greenleaf Street
Suite 2
Gurnee, IL 60031

In Re: Facility No. 4014590
IEMA Incident No. 20160917
Marathon #7604
120 W. 1st Street
Gibson City, Ford, IL 60936



Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on April 03, 2017 for the above referenced occurrence has been reviewed. The following determinations have been made based upon this review.

It has been determined that you are eligible to seek payment of costs in excess of \$5,000. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

- Tank 7 12000 gallon Gasoline
- Tank 8 10000 gallon Gasoline
- Tank 9 8000 gallon Gasoline
- Tank 10 560 gallon Heating Oil

You must contact the Illinois Environmental Protection Agency to receive a packet of Agency billing forms for submitting your request for payment.

An owner or operator is eligible to access the Underground Storage Tank Fund if the eligibility requirements are satisfied:

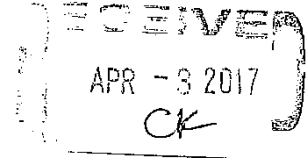
1. Neither the owner nor the operator is the United States Government,
2. The tank does not contain fuel which is exempt from the Motor Fuel Tax Law,
3. The costs were incurred as a result of a confirmed release of any of the following substances:
 - "Fuel", as defined in Section 1.19 of the Motor Fuel Tax Law
 - Aviation fuel
 - Heating oil
 - Kerosene
 - Used oil, which has been refined from crude oil used in a motor vehicle, as defined in Section 1.3 of the Motor Fuel Tax Law.
4. The owner or operator registered the tank and paid all fees in accordance with the statutory and regulatory requirements of the Gasoline Storage Act.
5. The owner or operator notified the Illinois Emergency Management Agency of a confirmed release, the costs were incurred after the notification and the costs were a result of a release of a substance listed in this Section. Costs of corrective action or indemnification incurred before providing that notification shall not be eligible for payment.
6. The costs have not already been paid to the owner or operator under a private insurance policy, other written agreement, or court order.

7. The costs were associated with "corrective action".

This constitutes the final decision as it relates to your eligibility and the set deductible. We reserve the right to change the deductible determination should additional information that would change the determination become available. An underground storage tank owner or operator may appeal the decision to the Illinois Pollution Control Board (Board), pursuant to Section 57.9 (c) (2). An owner or operator who seeks to appeal the decision shall file a petition for a hearing before the Board within 35 days of the date of issuance of the final decision, (35 Illinois Administrative Code 105.504(b)).

For information regarding the filing of an appeal, please contact:

Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
(312) 814-3620



The following tanks are also listed for this site:

- Tank 1 4000 gallon Gasoline
- Tank 2 4000 gallon Gasoline
- Tank 3 6000 gallon Gasoline
- Tank 4 6000 gallon Gasoline
- Tank 5 6000 gallon Gasoline
- Tank 6 1000 gallon Kerosene

Your application indicates that there has not been a release from these tanks under this incident number. You may be eligible to seek payment of corrective action costs associated with these tanks if it is determined that there has been a release from one or more of these tanks. Once it is determined that there has been a release from one or more of these tanks you may submit a separate application for an eligibility determination to seek corrective action costs associated with this/these tanks.

If you have any questions, please contact our Office at (217) 785-1020.

Sincerely,

A handwritten signature in cursive script, appearing to read "Deanne Lock".

Deanne Lock

Division of Petroleum and Chemical Safety

APPENDIX D

**CORRECTIVE ACTION PLAN BUDGET AND
CERTIFICATION**

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2016-0917. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: ABP Properties, LLC

Authorized Representative: Yogi Bhardwaj Title: Agent

Signature: [Signature] Date: 8/6/21

Subscribed and sworn to before me the 6th day of August, 2021

[Signature]
(Notary Public) Seal:



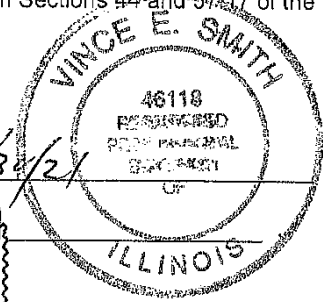
In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Vince E. Smith L.P.E./L.P.G. Seal:

L.P.E./L.P.G. Signature: [Signature] Date: 8/30/21

Subscribed and sworn to before me the 30th day of August, 2021

[Signature]
(Notary Public) Seal:



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Information for the Budget and Billing Forms

LPC #: 530100002 County: Ford
 City: Gibson City Site Name: ABP Gibson City
 Site Address: 120 West 1st Street
 IEMA Incident No.: 2016-0917
 IEMA Notification Date: Oct 5,2016
 Date this form was prepared: Aug 26, 2021

This form is being submitted as a (check one, if applicable):

- Budget Proposal
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Billing Package

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): _____
 Date(s): _____

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action Actual Costs

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund.

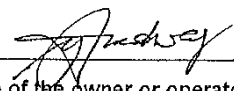
Pay to the order of: ABP Properties, LLC

Send in care of: CWM Company, Inc.

Address: P.O. Box 571

City: Carlinville State: IL Zip: 62626

The payee is the: Owner Operator (Check one or both.)

 Signature of the owner or operator of the UST(s) (required) W-9 must be submitted.
[Click here to print off a W-9 Form.](#)

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Number of USTs at the site: 10 (Number of USTs includes USTs presently at the site and USTs that have been removed.)

Number of incidents reported to IEMA for this site: 1

Incident Numbers assigned to the site due to releases from USTs: 2016-0917

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	4,000	Yes <input type="checkbox"/> No <input type="checkbox"/>	-	
Gasoline	4,000	Yes <input type="checkbox"/> No <input type="checkbox"/>	-	
Gasoline	6,000	Yes <input type="checkbox"/> No <input type="checkbox"/>	-	
Gasoline	6,000	Yes <input type="checkbox"/> No <input type="checkbox"/>	-	
Gasoline	6,000	Yes <input type="checkbox"/> No <input type="checkbox"/>	-	
Kerosene	1,000	Yes <input type="checkbox"/> No <input type="checkbox"/>	-	
Gasoline	12,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	2016-0917	Overfill
Gasoline	10,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	2016-0917	Overfill
Gasoline	8,000	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	2016-0917	Overfill

Add More Rows

Undo Last Add

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Heating Oil	560	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	2016-0917	Tank Leak
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
					Proposed
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$ 3,993.45
Analytical Costs Form	\$	\$	\$	\$	\$ 5,971.79
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$ 100,955.97
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$ 30,731.84
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 32,040.80
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 1,862.40
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 175,556.25

Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
2	PUSH	10.00	20.00	Delineate soil plume on-site (NW of station / N of MW-4)
1	PUSH	10.00	10.00	Waste Characterization
				Pre - Excavation

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		31.16	
Total Feet via PUSH:	30.00	24.39	731.70
Total Feet for Injection via PUSH:		20.32	
Total Drilling Costs:			1,625.80 *

2. Monitoring / Recovery Wells

* adjusted to reflect Subpart H minimum payment amount

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:		22.36	
Total Feet via PUSH:		16.94	
Total Feet of 4" or 6" Recovery:		33.87	
Total Feet of 8" or Greater Recovery:		55.55	
Total Well Costs:			

Total Drilling and Monitoring Well Costs:	\$1,625.80
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Drilling and Monitoring Well Costs Form

1. Drilling

Number of Borings to Be Drilled	Type HSA/PUSH/ Injection	Depth (feet) of Each Boring	Total Feet Drilled	Reason for Drilling
1	PUSH	5.00	5.00	Soil-Gas Vapor Boring
1	HSA	15.00	15.00	Replacement Well (MW-5)
				Post Excavation: Soil-Gas Vapor @ most contam. &
				Replacement Well @ MW-5

Subpart H minimum payment amount applies.

	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	15.00	31.16	467.40
Total Feet via PUSH:	5.00	24.39	121.95
Total Feet for Injection via PUSH:		20.32	
Total Drilling Costs:			2,032.25

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" or 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed (\$)
1	HSA		15.00	15.00

Well Installation	Total Feet	Rate per Foot (\$)	Total Cost (\$)
Total Feet via HSA:	15.00	22.36	335.40
Total Feet via PUSH:		16.94	
Total Feet of 4" or 6" Recovery:		33.87	
Total Feet of 8" or Greater Recovery:		55.55	
Total Well Costs:			335.40

Total Drilling and Monitoring Well Costs:	\$2,367.65
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Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost (\$) per Analysis		Total per Parameter
Chemical Analysis					
BETX Soil with MTBE EPA 8260	15	X	115.16	=	\$1,727.40
BETX Water with MTBE EPA 8260	1	X	109.74	=	\$109.74
COD (Chemical Oxygen Demand)		X		=	
Corrosivity		X		=	
Flash Point or Ignitability Analysis EPA 1010	1	X	44.70	=	\$44.70
Fraction Organic Carbon Content (f _{OC}) ASTM-D 2974-00		X		=	
Fat, Oil, & Grease (FOG)		X		=	
LUST Pollutants Soil - analysis must include volatile, base/neutral, polynuclear aromatics and metals list in Section 732 Appendix B and 734 Appendix B		X		=	
Dissolved Oxygen (DO)		X		=	
Paint Filter (Free Liquids)	1	X	18.97	=	\$18.97
PCB / Pesticides (combination)		X		=	
PCBs		X		=	
Pesticides		X		=	
pH	1	X	18.97	=	\$18.97
Phenol		X		=	
Polynuclear Aromatics PNA, or PAH SOIL EPA 8270	14	X	205.94	=	\$2,883.16
Polynuclear Aromatics PNA, or PAH WATER EPA 8270	1	X	205.94	=	\$205.94
Reactivity		X		=	
SVOC - Soil (Semi-Volatile Organic Compounds)		X		=	
SVOC - Water (Semi-Volatile Organic Compounds)		X		=	
TKN (Total Kjeldahl) "nitrogen"		X		=	
TPH (Total Petroleum Hydrocarbons)		X		=	
VOC (Volatile Organic Compounds) - Soil (Non-Aqueous)		X		=	
VOC (Volatile Organic Compounds) - Water	1	X	300.00	=	\$300.00
Vapor Intrusion Sampling	1	X	25.00	=	\$25.00
Regulator Rental	1	X	35.00	=	\$35.00
Air Canister Rental		X		=	
		X		=	
		X		=	
Geo-Technical Analysis					
Soil Bulk Density (ρ _b) ASTM D2937-94		X		=	
Ex-situ Hydraulic Conductivity / Permeability		X		=	
Moisture Content (w) ASTM D2216-92 / D4643-93		X		=	
Porosity		X		=	
Rock Hydraulic Conductivity Ex-situ		X		=	
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		X		=	
Soil Classification ASTM D2488-90 / D2487-90		X		=	
Soil Particle Density (ρ _s) ASTM D854-92		X		=	
		X		=	
		X		=	
		X		=	

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals TCLP Soil (one fee per soil sample)	1	X	107.03	=	\$107.03
Soil preparation fee for Metals Total Soil (one fee per soil sample)		X		=	
Water preparation fee for Metals Water (one fee per water sample)		X		=	
Arsenic TCLP Soil		X		=	
Arsenic Total Soil		X		=	
Arsenic Water		X		=	
Barium TCLP Soil		X		=	
Barium Total Soil		X		=	
Barium Water		X		=	
Cadmium TCLP Soil		X		=	
Cadmium Total Soil		X		=	
Cadmium Water		X		=	
Chromium TCLP Soil		X		=	
Chromium Total Soil		X		=	
Chromium Water		X		=	
Cyanide TCLP Soil		X		=	
Cyanide Total Soil		X		=	
Cyanide Water		X		=	
Iron TCLP Soil		X		=	
Iron Total Soil		X		=	
Iron Water		X		=	
Lead TCLP Soil	1	X	21.67	=	\$21.67
Lead Total Soil		X		=	
Lead Water		X		=	
Mercury TCLP Soil		X		=	
Mercury Total Soil		X		=	
Mercury Water		X		=	
Selenium TCLP Soil		X		=	
Selenium Total Soil		X		=	
Selenium Water		X		=	
Silver TCLP Soil		X		=	
Silver Total Soil		X		=	
Silver Water		X		=	
Metals TCLP Soil (a combination of all metals) RCRA		X		=	
Metals Total Soil (a combination of all metals) RCRA		X		=	
Metals Water (a combination of all metals) RCRA		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
Other					
EnCore® Sampler, purge-and-trap sampler, or equivalent sampling device	15	X	13.55	=	\$203.25
Sample Shipping per sampling event ¹	4	X	67.74	=	\$270.96

¹A sampling event, at a minimum, is all samples (soil and groundwater) collected in a calendar day.

Total Analytical Costs: \$ 5,971.79

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
967.66	77.23	\$74,732.38

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
967.66	27.10	\$26,223.59

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
	8.81	\$.00

B. Alternative Technology

Alternative Technology Selected:	
Number of Cubic Yards of Soil to Be Remediated	
Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)

E. Drum Disposal

Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
Total Drum Disposal Costs		.00

Total Remediation and Disposal Costs:	\$100,955.97
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Paving, Demolition, and Well Abandonment Costs Form

A. Concrete and Asphalt Placement/Replacement

Number of Square Feet	Asphalt or Concrete	Thickness (inches)	Cost (\$) per Square Foot	Replacement or Placement for an Engineered Barrier	Total Cost
1,708.00	Concrete	6.00	5.92	Replacement	\$10,111.36
1,794.00	Concrete	6.00	5.92	Replacement	\$10,620.48

Total Concrete and Asphalt Placement/Replacement Costs:	\$20,731.84
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B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantled, or Removed	Unit Cost (\$)	Total Cost (\$)
Existing Canopy on-site (over proposed excavation)	1.00	10,000.00

Total Building Destruction or Dismantling and Canopy Removal Costs:	\$10,000.00
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Paving, Demolition, and Well Abandonment Costs Form

C. Well Abandonment

Monitoring Well ID #	Type of Well (HSA / PUSH / Recovery)	Depth of Well (feet)	Cost (\$) per Foot	Total Cost

Total Monitoring Well Abandonment Costs:	
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Total Paving, Demolition, and Well Abandonment Costs:	\$30,731.84
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Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	34.00	135.48	\$4,606.32
CCAP	Corrective Action Design / Report Development / IEPA Correspondence			
	Senior Prof. Engineer	2.00	176.13	\$352.26
CCAP	Report Review and Certification			
	Senior Admin. Assistant	2.00	60.97	\$121.94
CCAP	Report Compilation, Assembly, and Distribution			
	Senior Draftperson/CAD	6.00	81.28	\$487.68
CCAP	Drafting and Editing Maps for Report			
	Senior Project Manager	10.00	135.48	\$1,354.80
CCAP-Budget	Budget Preparation			
	Senior Prof. Engineer	2.00	176.13	\$352.26
CCAP-Budget	Budget Review & Certification			
	Senior Project Manager	6.00	135.48	\$812.88
TACO 2 or 3	TACO Tier 2 Parameters/CUO Development / Re-assessment of TACO data post-excavation			
	Senior Project Manager	6.00	135.48	\$812.88
TACO 2 or 3	Contaminant Transport Modeling / Assessment of Contamination Levels/ Soil and GW Plume			

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task				
		Senior Project Manager	8.00	135.48	\$1,083.84
CCA-Field	Office Prep, Scheduling, Arrangements Excavation Activities				
		Senior Project Manager	8.00	135.48	\$1,083.84
CCA-Field	Agency Corr/Discussion/Document/Review/Tabulate Analytical Results				
		Senior Project Manager	12.00	135.48	\$1,625.76
CCA-Field	Drilling/Sampling for Soil Plume Delineation (1- Waste Char, 2 SBs) / Field Prep/ Drill Notif./ JULIEs				
		Senior Technician	10.00	88.06	\$880.60
CCA-Field	Drilling/Sampling for Soil Plume Delineation (1- Waste Characterization for excav, 2 SBs)				
		Engineer III	6.00	135.48	\$812.88
CCA-Field	Excavation Preparation / Landfill Authorization / Setup				
		Senior Project Manager	42.00	135.48	\$5,690.16
CCA-Field	On-site Excavation & Backfill Oversight/ Field Preparation / Sample Collection				
		Senior Project Manager	8.00	135.48	\$1,083.84
CCA-Field	Corrective Action Documentation, Excavation / Disposal / Manifest / Tickets				
		Senior Project Manager	5.00	135.48	\$677.40
CCA-Field	Boring Logs / Field Reports (Daily for excavation)				

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	16.00	135.48	\$2,167.68
CCA-Field	Drill/Sample Replace, MW & Soil Gas-Vapor Boring, and GW Sample (2 Round Trips), Field Prep			
	Senior Technician	14.00	88.06	\$1,232.84
CCA-Field	Drill/Sample Replace, MW & Soil Gas-Vapor Boring, and GW Sample (2 Round Trips),			
	Senior Project Manager	10.00	135.48	\$1,354.80
CCA-Field	Concrete Replacement / Contractor Layout / Documentation of Completion			
	Senior Prof. Engineer	6.00	176.13	\$1,056.78
CA-Pay	Reimbursement Review and Certifications (3)			
	Senior Acct. Technician	54.00	74.51	\$4,023.54
CA-Pay	Reimbursement Preparations (3)			
	Senior Admin. Assistant	6.00	60.97	\$365.82
CA-Pay	Reimbursement Compilation, Assembly, and Distributions (3)			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$32,040.80
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Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase	Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification			
Postage	2.00	9.20	/each	\$18.40
CCAP	Report/ Forms/ Distribution			
PID	5.00	75.00	/day	\$375.00
CCA-Field	Monitoring During Excavation Activities / Sampling activities (4 days-Excav, 1- day samp)			
Mileage	800.00	.56	/mile	\$448.00
CCA-Field	4 RT from Office (1-WC/SBs Samp, 2- Excavation, 3- RMW/Soil-Gas Vap, 4- GW Samp)			
Mileage	400.00	.56	/mile	\$224.00
CCA-Field	2 RT from Springfield Office (1 - Concrete layout, 2- Confirm concrete quality & layout)			
Per Diem - Incidentals/Meals	5.00	55.00	/day	\$275.00
CCA-Field	Ford County Per Diem Rates (Meals/Incidentals Rate)			
Per Diem - Hotel	5.00	96.00	/day	\$480.00
CCA-Field	Ford County Per Diem Rates (Lodging Rates)			
Postage	4.00	10.50	/each	\$42.00
CA-Pay	Reimbursement Distribution/ Forms			
Total of Consultant Materials Costs				\$1,862.40

APPENDIX E

**TACO VARIABLES AND EQUATIONS &
HYDRAULIC CONDUCTIVITY
CALCULATIONS**

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

R-26 Input/Summary Sheet

Version: 3/26/2018

IEMA Incident # (6 or 8 digit)	2018-0917		
IEPA LPC # (10 digit)	0530100002		
Site Name:	ABP Properties, LLC		
Site Address:	120 West 1st Street		
City:	Gibson City		
County:	Ford		
Zip Code:	60936		
SSL Equations Used:	S5,6,7,8,9,10,17,18,19,20,21,22,24		
RBCA Equations Used:	R-1, R-2, R3		
Contact Information for Individual who Performed Calculation			
Land Use:	Residential & Construction Worker		
Objective from S17 used in R26:	No		
Groundwater:	Class 1		
Standard or Mass Limit Equations:	Standard Equations		If Mass Limit, then Specify Acres:
Square Feet of Plume for Mass Limit Eq.:	0.00		
Date Data is Entered:	December 6, 2019		< use this # above

Entry	Description	Reference	Shelby Tube Location:
1.233	Hofcomb Bulk Density (pcf), or Dry Soil Bulk Density (g/cm ³ or kg/L): 1.5, or Gravel = 2.0, Sand = 1.8, Silt = 1.8, Clay = 1.7, or site specific		
2.634	ps - Soil Particle Density		
0.532	Total Soil Porosity	0.532	0.532
0.243	Water Filled Porosity	0.243	0.243
0.289	Air Filled Porosity	0.289	0.289
0.430	θ _T - Total Soil Porosity (RBCA)	0.43 or: Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36	
0.220	w - Average Soil Moisture Content	0.1, or: Subsurface Soil (top 1m) = 0.1; Subsurface Soil (below 1 m) = 0.2; or Site Specific	
	Sand	USDA Soil Classification (Pick from List)	

Entry	Description	Entry
0.03430	Fractional Organic Carbon (foc) in g/g	0.0343
		Organic Matter (%):
		Organic Matter (mg/kg):
		Total Organic Carbon (g/g):

Entry	Description	Well Name	Meters
2.77E-03	Average Hydraulic Conductivity (cm/sec)		
2.77E-03	Falling Hydraulic Conductivity (cm/sec)	MW-3	
	Rising Hydraulic Conductivity (cm/sec)		
0.00964	Hydraulic Gradient (0.02 for sites with no groundwater)		
10	d _a - Aquifer Thickness (ft)		3.048 m
10	d _s - Depth of Source (ft) (Vertical Thickness of Contamination)		3.048 m
	X - Distance along the centerline of the groundwater plume emanating to setback zone or surface water from the source in the direction of groundwater flow (ft) (RBCA)		0 cm
114	L - Source Length Parallel to Groundwater Flow (ft)		34.7472 m
175	Sw - Source Width -horizontal plane (ft) (RBCA)		5334 cm

Hydraulic Gradient Calculations

MW-2	93.92
MW-4	92.85
Distance:	111

C _M - Concentration of Contaminant in groundwater at distance X from the source (mg/L)	Surface Water
Benzene	MTBE
Toluene	
Ethylbenzene	
Total Xylenes	

Chemicals of Concern		
Benzene	Naphthalene	Chrysene
Toluene		Benzo(k)fluoranthene
Ethylbenzene		Indeno(1,2,3-cd)pyrene
Total Xylenes		
MTBE		

- Mass Limit Equations
- Inhalation Equations
- Groundwater Ingestion Equations
- Csat Equations
- Fugitive Dust Equations
- Ingestion Equations

SSL Equations Needed

Text discussion for I, L, d_a, d_s, S_w, S_d	
Hydraulic Gradient	The Hydraulic Gradient (I) was determined from an onsite survey of each of the groundwater monitoring wells. The riser elevations were determined and the depth to groundwater was noted in each well. This data was used to generate a potentiometric flow map with contour lines which show potentiometric head. A corresponding flow line, perpendicular to the contour lines, was determined between two known points of groundwater elevation. The hydraulic gradient was determined by the difference in elevation divided by the length of flow between the points.
Source Length	The Source Length Parallel to Groundwater Flow (L) was determined from the site map and analytical results. A value of 45.1104 m was used to encompass the length of contamination parallel to groundwater flow. This value is the distance between soil borings BH-1 and BH-2.
Aquifer Thickness	The Aquifer Thickness (d_a) is a site specific value determined by the length of the monitoring well screen. The Aquifer Thickness value used in the modeling equations was 3.048 meters.
Depth of Source	The Depth of Source (d_s) was determined from the analytical results and soil boring logs. A value of 3.048 m was used to encompass the vertical thickness of contamination based upon a clean soil sample at BH-1A, "hot" samples at BH-2B and BH-2C, and a clean soil sample at BH-2D. Thus the vertical thickness of soil contamination has been determined to be 3.048 m.
Source Width	The source width perpendicular to groundwater flow direction in the Horizontal Plane (S_w) was determined from the site map and analytical results. A value of 3566.16 cm was used to encompass the width of contamination in the horizontal plane. This value is the distance between clean wells MW-4 and MW-6.
Source Depth	The source width perpendicular to groundwater flow direction in the Vertical Plane (S_d) was determined from the soil boring logs and analytical results. A value of 304.8 cm was used to encompass the width of contamination in the vertical plane based on the depths of contamination present and the PID readings from the bore logs.

Distance (X)

BENZENE							
Soil Exceedances					Groundwater Exceedances		
Location	Soil Concentration (mg/kg)	X (ft)	Gw _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X (ft) C(x) (mg/L)
1	5.2	330	0.132	0.0050	MW-2	0.009	76 0.0050
3	32.5	565	0.827	0.0050	MW-5	1.180	620 0.0050
4	1.54	206	0.039	0.0050			
5	0.16	1	0.004	0.0040			
6	0.122	1	0.003	0.0031			
15	0.103	1	0.003	0.0026			
19	0.83	150	0.021	0.0050			
20	0.2	2	0.005	0.0050			
MW-4A	0.0891	1	0.002	0.0023			
SB-4B	0.0792	1	0.002	0.0020			

Toluene								
Soil Exceedances					Groundwater Exceedances			
Location	Soil Concentration (mg/kg)	X (ft)	Gw _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X (ft)	C(x) (mg/L)
1	68.7	1	0.6048	0.5683				
3	325	19	2.861	0.9791				
4	24.8	1	0.218	0.2062				

Ethylbenzene								
Soil Exceedances					Groundwater Exceedances			
Location	Soil Concentration (mg/kg)	X (ft)	Gw _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X (ft)	C(x) (mg/L)
1	13.5	1	0.06000522	0.0590	MW-5	2.690	75	0.6987
2	16.9	1	0.075	0.0739				
3	63.5	1	0.282	0.2775				

Naphthalene								
Soil Exceedances					Groundwater Exceedances			
Location	Soil Concentration (mg/kg)	X (ft)	GW _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X (ft)	C(x) (mg/L)
					MW-4	0.349	59	0.1378

Benzo[a]pyrene								
Soil Exceedances					Groundwater Exceedances			
Location	Soil Concentration (mg/kg)	X (ft)	GW _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X (ft)	C(x) (mg/L)

Benz[a]anthracene								
Soil Exceedances					Groundwater Exceedances			
Location	Soil Concentration (mg/kg)	X (ft)	Gw _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X (ft)	C(x) (mg/L)

Acenaphthene								
Soil Exceedances					Groundwater Exceedances			
Location	Soil Concentration (mg/kg)	X (ft)	Gw _{obj} (mg/L) R26 Csource	C(x) (mg/L)	Location	Groundwater Concentration (mg/L)	X (ft)	C(x) (mg/L)

ABP Properties, LLC				
GROUNDWATER CLEAN-UP OBJECTIVES				
(mg/L)				
Parameter	Most Stringent	Class I	Class II	ADLs
	CUO	GW	GW	(U)
Benzene	0.005	0.005	0.025	<0.002
Ethylbenzene	0.7	0.7	1	<0.002
MTBE	0.07	0.07	0.07	<0.005
Toluene	1.0	1.0	2.5	<0.002
Total Xylenes	10.0	10.0	10.0	<0.005
Acenaphthene	0.42	0.42	2.1	<0.018
Acenaphthylene [^]	0.21	0.21	1.05	<0.010
Anthracene	2.1	2.1	10.5	<0.0066
Benzo(a)anthracene	0.00013	0.00013	0.00065	<0.00013
Benzo(a)pyrene	0.0002	0.0002	0.002	<0.0002
Benzo(b)fluoranthene	0.00018	0.00018	0.0009	<0.00018
Benzo(g,h,i)perylene [^]	0.21	0.21	1.05	<0.00076
Benzo(k)fluoranthene	0.00017	0.00017	0.00085	<0.00017
Chrysene	0.0015	0.0015	0.0075	<0.0015
Dibenz(a,h)anthracene	0.0003	0.0003	0.0015	<0.0003
Fluoranthene	0.28	0.28	1.4	<0.0021
Fluorene	0.28	0.28	1.4	<0.0021
Indeno(1,2,3-cd)pyrene	0.00043	0.00043	0.00215	<0.00043
Naphthalene	0.14	0.14	0.22	<0.010
Phenanthrene [^]	0.21	0.21	1.05	<0.0064
Pyrene	0.21	0.21	1.05	<0.0027
[^] Temporary Objectives from additional tables -- 10/1/04				
Updated 12/20/04				


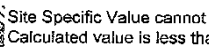
Summary of Tier 2 Calculations
ABP Properties, LLC
2016-0917
12/05/19

Table 3

Tier 1 Objectives													
		Benzene		Toluene		Ethylbenzene		Total Xylenes		Naphthalene		MTBE	
Residential	Ingestion	12	mg/kg	16,000	mg/kg	7,800	mg/kg	16,000	mg/kg	1,600	mg/kg	780	mg/kg
	Inhalation	0.8	mg/kg	650	mg/kg	400	mg/kg	320	mg/kg	170	mg/kg	8,800	mg/kg
	Migration Class 1	0.03	mg/kg	12	mg/kg	13	mg/kg	150	mg/kg	12	mg/kg	0.32	mg/kg
	Migration Class 2	0.17	mg/kg	29	mg/kg	19	mg/kg	150	mg/kg	18	mg/kg	0.32	mg/kg
Industrial/Commercial	Ingestion	100	mg/kg	410,000	mg/kg	200,000	mg/kg	410,000	mg/kg	41,000	mg/kg	20,000	mg/kg
	Inhalation	1.60	mg/kg	650	mg/kg	400	mg/kg	320	mg/kg	270	mg/kg	8,800	mg/kg
Construction Worker	Ingestion	2,300	mg/kg	410,000	mg/kg	20,000	mg/kg	41,000	mg/kg	4,100	mg/kg	2,000	mg/kg
	Inhalation	2.20	mg/kg	42	mg/kg	58	mg/kg	5.6	mg/kg	1.80	mg/kg	140	mg/kg
Soil Saturation		580	mg/kg	290	mg/kg	150	mg/kg	110	mg/kg	537.90	mg/kg	8,400	mg/kg

Tier 2 SSL Objectives													
		Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	Equation
Residential	Ingestion	11.64	S-2	6,257.14	S-1	7,821	S-1	15,643	S-1	1,564	S-1	782.1	S-1
	Inhalation	2.19	S-6	650	S-4	400	S-6	320	S-4	270.68	S-4	8,800	S-4
	Migration Mass-Limit Class 1	0.34	S-28	67.05	S-28	46.94	S-28	670.54	S-28	9.39	S-28	4.69	S-28
	Migration Class 1	0.197	S-17	113.60	S-17	157.49	S-17	782.46	S-17	48.58	S-17	0.84	S-17
Industrial-Commercial	Ingestion	104.06	S-2	1,635,200	S-1	204,400	S-1	408,800	S-1	40,880	S-1	20,440	S-1
	Inhalation	4.18	S-6	650	S-4	400	S-6	320	S-4	430.95	S-4	8,800	S-4
	Migration Mass-Limit Class 1	0.34	S-28	67.05	S-28	46.94	S-28	670.54	S-28	9.39	S-28	4.69	S-28
	Migration Class 1	0.197	S-17	113.60	S-17	157.49	S-17	782.46	S-17	48.58	S-17	0.84	S-17
Construction Worker	Ingestion	2,258.21	S-3	163,236	S-1	16,323.6	S-1	81,618	S-1	122,427	S-1	61,214	S-1
	Inhalation	5.87	S-7	592.77	S-5	40.01	S-7	80.74	S-5	2.79	S-5	297.28	S-5
Soil Saturation		3,536.78	S-29	3,010.40	S-29	1,912.33	S-29	1,530.32	S-29	537.90	S-29	30,456.13	S-29

all values are in mg/kg

 Site Specific Value cannot exceed Soil Saturation Limit, otherwise Tier 2 Inhalation or Tier 2 Migration objectives are the Soil Saturation objective
 Calculated value is less than Tier 1 Objective

Groundwater Contaminant Concentration Exceedances at Surface Water or Set Back Zone (mg/L)

Result	Benzene	Equation	Toluene	Equation	Ethylbenzene	Equation	Total Xylenes	Equation	Naphthalene	Equation	MTBE	Equation
	#DIV/0!	R-26	#DIV/0!	R-26	#DIV/0!	R-26	#DIV/0!	R-26	#DIV/0!	R-26	#DIV/0!	R-26
Surface Water Objective	0.86		0.6		0.014		0.36					

12/05/19

ABP Properties, LLC 2016-0917

Post Calculations
 BOCHEHE DATA FOR 0.25 BOGELS OF GROUNDWATER (Attachment A)

Sample Location	Concentration		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		R _{1/2} D _{1/2} = 0.15 X		
	S ₁	S ₂	S ₃	S ₄	S ₅	S ₆	S ₇	S ₈	S ₉	S ₁₀	S ₁₁	S ₁₂	S ₁₃	S ₁₄	S ₁₅	S ₁₆	S ₁₇	S ₁₈	S ₁₉	S ₂₀	S ₂₁	S ₂₂	S ₂₃
MMZ-2	0.029	0.1	2013.8	0.1	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8	2013.8
MMZ-3	0.1	0.1	1897.6	0.1	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6	1897.6

ABP Properties, LLC
 2016-0917
 TO HERB MATH FOR VERTICAL SOIL MODELING AND R-IN MODELING OF VERTICAL MODELED SOIL (Attachment A)

Survey Location	C _u = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _v = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _u = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _v = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _u = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _v = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _u = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _v = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _u = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)		C _v = 1000 (lb/ft ²) (lb/ft ²) (lb/ft ²)					
	S _u	H	S _u	H	S _u	H	S _u	H	S _u	H	S _u	H	S _u	H	S _u	H	S _u	H	S _u	H				
1	4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
2	4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
3	4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
4	4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

ABP Properties, LLC
 Math for R₂ Calculations
 2016-0917
 TOTAL AREAS MULTI FOR VERTICAL SOIL MODELING AND CON MICELING OF VERTICAL MODEL CD SOIL (Attachment A)

Sample Location	C ₁ C ₁ = C ₁ / (DP)			C ₂ C ₂ = C ₂ / (DP)			C ₃ C ₃ = C ₃ / (DP)			C ₄ C ₄ = C ₄ / (DP)			C ₅ C ₅ = C ₅ / (DP)			C ₆ C ₆ = C ₆ / (DP)			C ₇ C ₇ = C ₇ / (DP)					
Sample Location	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight			
1	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992
2	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492
3	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492
4	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492

Sample Location	C ₁			C ₂			C ₃			C ₄			C ₅			C ₆			C ₇					
Sample Location	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight	Area	Depth	Weight			
1	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992	74.7	19.812	5.992
2	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492	59.9	19.812	4.492
3	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492	25.1	19.812	2.492
4	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492	35.1	19.812	3.492

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
SSL Input Parameters for Use with Tier 2 Calculations**

A. Site Identification

IEMA Incident # (6- or 8-digit): 2016-0917 IEPA LPC # (10-digit): 0530100002
 Site Name: ABP Properties, LLC
 Site Address (not a P.O. Box): 120 West 1st Street
 City: Gibson City County: Ford Zip Code: 60936
 Leaking UST Technical File

B. Tier 2 Calculation Information

Equation(s) Used (ex: S12,S17,S28): S5,6,7,8,9,10,17,18,19,20,21,22,24
 Contact Information for Individual Who Performed Calculations:
0
 Land Use: Residential Soil Type: Sand
 Groundwater: Class I Class II
 Mass Limit: Yes No If Yes, then Specify Acreage: _____

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the UST Fund
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

AT (ingestion)	=	Residential = 6	yr
		Con. Worker = 0.115	yr
AT (inhalation)	=	Residential = 30	yr
		Con. Worker = 0.115	yr
AT _c	=	70	yr
BW	=	Res. (NonCarcinogen) = 15	kg
		Res. (Carcinogen) = 70	kg
		Con. Worker = 70	kg
C _{sat}	=	Benzene = 3538.781	mg/kg
		Toluene = 3010.399	mg/kg
		Ethylbenzene = 1912.333	mg/kg
		Total Xylenes = 1530.319	mg/kg
		MTBE = 30456.13	mg/kg
		Naphthalene = 537.903	mg/kg
			mg/kg
			mg/kg
			mg/kg

d _a	=	3.048	m
d _s	=	3.048	m
DA	=	Benzene = 0.000472885125498908	cm ² /s
		Toluene = 0.000190648177765709	cm ² /s
		Ethylbenzene = 9.92140644903489E-05	cm ² /s
		Xylenes = 0.000085783288726339	cm ² /s
		MTBE = 0.000189498612056847	cm ² /s
		Naphthalene = 3.10270609067088E-06	cm ² /s
			cm ² /s
			cm ² /s
			cm ² /s

Incident # 2016-0917

C_w	=	Benzene = 0.1 mg/L Toluene = 20 mg/L Ethylbenzene = 157.486 mg/L Total Xylenes = 2782.399 mg/L MTBE = 0.836 mg/L Naphthalene = 48.584 mg/L
d	=	4.694 m
ED (inhalation of carcinogens)	=	Residential = 30 yr Con. Worker = 1 yr
ED (ingestion of noncarcinogens)	=	Residential = 6 yr Con. Worker = 1 yr
ED (inhalation of noncarcinogens)	=	Residential = 30 yr Con. Worker = 1 yr
ED (ingestion of groundwater)	=	Residential = 30 yr Con. Worker = 1 yr
ED_{M-L}	=	70 yr
EF	=	Residential = 350 d/yr Con. Worker = 30 d/yr
$F(x)$	=	0.194 unitless
f_{oc}	=	0.0343 g/g
GW_{obj}	=	Benzene = 0.005 mg/L Toluene = 1 mg/L Ethylbenzene = 0.7 mg/L Total Xylenes = 10 mg/L MTBE = 0.07 mg/L Naphthalene = 0.14 mg/L
H'	=	Benzene = 0.23 unitless Toluene = 0.271 unitless Ethylbenzene = 0.324 unitless Total Xylenes = 0.271 unitless MTBE = 0.0241 unitless Naphthalene = 0.0198 unitless
i	=	0.00964 m/m
I	=	0.3 m/yr
I_{M-L}	=	0.18 m/yr
$IF_{soil-adj}$	=	114 (mg-yr)/(kg-d)
IR_{soil}	=	Residential = 200 mg/d Con. Worker = 480 mg/d

D_i	=	Benzene = 0.088 cm ² /s Toluene = 0.087 cm ² /s Ethylbenzene = 0.075 cm ² /s Total Xylenes = 0.0735 cm ² /s MTBE = 0.102 cm ² /s Naphthalene = 0.0000075 cm ² /s
D_w	=	Benzene = 0.0000102 cm ² /s Toluene = 0.0000086 cm ² /s Ethylbenzene = 0.0000078 cm ² /s Total Xylenes = 0.00000923 cm ² /s MTBE = 0.000011 cm ² /s Naphthalene = 0.0000075 cm ² /s
DF	=	4.792494985 unitless
ED (ingestion of carcinogens)	=	Con. Worker = 1 yr
K_{oc}	=	Benzene = 50 cm ³ /g or L/kg Toluene = 158 cm ³ /g or L/kg Ethylbenzene = 320 cm ³ /g or L/kg Total Xylenes = 398 cm ³ /g or L/kg MTBE = 11.5 cm ³ /g or L/kg Naphthalene = 500 cm ³ /g or L/kg
K_s	=	1830 m/yr
L	=	34.7472 m
PEF	=	m ³ /kg
PEF'	=	m ³ /kg
Q/C (VF equations)	=	Residential = 68.81 (g/m ² -s)/(kg/m ³) Con. Worker = 85.81 (g/m ² -s)/(kg/m ³)
Q/C (PEF equations)	=	(g/m ² -s)/(kg/m ³)
RfC (mg/m ³)		Chronic Subchronic
Benzene	=	0.03 0.08
Toluene	=	5 5
Ethylbenzene	=	1 9
Total Xylenes	=	0.1 0.4
MTBE	=	3 2.5
Naphthalene	=	0.003 0.003
	=	NA
	=	NA
	=	NA
	=	NA

Incident # 2016-0917

IR_w	=	Residential = 2	L/d
K	=	873.5472	m/yr
K_d (non-ionizing organics)	=	Benzene = 1.715	cm ² /g or L/kg
		Toluene = 5.4194	cm ² /g or L/kg
		Ethylbenzene = 10.976	cm ² /g or L/kg
		Total Xylenes = 13.6514	cm ² /g or L/kg
		MTBE = 0.39445	cm ² /g or L/kg
		Naphthalene = 17.15	cm ² /g or L/kg
K_d (ionizing organics)	=		cm ² /g or L/kg
K_d (inorganics)	=		cm ² /g or L/kg
VF'	=	Benzene = 538	m ³ /kg
		Toluene = 847.314	m ³ /kg
		Ethylbenzene = 1174.557	m ³ /kg
		Total Xylenes = 1442.677	m ³ /kg
		MTBE = 849.88	m ³ /kg
		Naphthalene = 6641.873	m ³ /kg
			m ³ /kg
VM _{M-L}	=	#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
VF _{M-L}	=	#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
		#VALUE!	m ³ /kg
η	=	0.532	L_{pore}/L_{soil}
θ_a	=	0.289	L_{air}/L_{soil}

RfD _o mg/(kg-d)	Chronic	Subchronic
Benzene	= 0.004	0.012
Toluene	= 0.08	0.8
Ethylbenzene	= 0.1	0.05
Total Xylenes	= 0.2	0.4
MTBE	= 0.01	0.3
Naphthalene	= 0.02	0.6
	=	0.2
	=	NA
	=	NA
	=	NA
S	=	Benzene = 1800 mg/L
		Toluene = 530 mg/L
		Ethylbenzene = 170 mg/L
		Total Xylenes = 110 mg/L
		MTBE = 51000 mg/L
		Naphthalene = 31 mg/L
		mg/L
		mg/L
		mg/L
		mg/L
		mg/L
SF _o	=	Benzene = 0.055 (mg/kg-d) ⁻¹
		Toluene = NA (mg/kg-d) ⁻¹
		Ethylbenzene = 0.011 (mg/kg-d) ⁻¹
		Total Xylenes = NA (mg/kg-d) ⁻¹
		MTBE = NA (mg/kg-d) ⁻¹
		Naphthalene = NA (mg/kg-d) ⁻¹
		(mg/kg-d) ⁻¹
		(mg/kg-d) ⁻¹
		(mg/kg-d) ⁻¹
		(mg/kg-d) ⁻¹
		(mg/kg-d) ⁻¹
		(mg/kg-d) ⁻¹
T	=	Residential = 9.5E08 s
		Con. Worker = 3.6 x 10 ⁶ s
T _{M-L}	=	30 yr
THQ	=	1 unitless
TR	=	1.00E-06 unitless
U _m	=	4.69 m/s
URF	=	Benzene = 7.8 x 10 ⁻⁶ (µg/m ³) ⁻¹
U _t	=	11.32 m/s
V	=	0.5 unitless
VF	=	Benzene = 7008.212 m ³ /kg
		Toluene = 11037.45 m ³ /kg
		Ethylbenzene = 15300.248 m ³ /kg
		Total Xylenes = 18792.88 m ³ /kg
		MTBE = 11070.881 m ³ /kg
		Naphthalene = 86519.657 m ³ /kg
		m ³ /kg
		m ³ /kg
		m ³ /kg

Incident # 2016-0917

θ_w	=	0.243	$L_{\text{water}}/L_{\text{soil}}$
ρ_b	=	1.233	kg/l or g/cm ³
ρ_s	=	2.634	g/cm ³
ρ_w	=	1	g/cm ³
$1/(2b+3)$	=	0.09	unitless

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
RBCA Input Parameters for Use with Tier 2 Calculations**

A. Site Identification

IEMA Incident # (6- or 8-digit): 2016-0917 IEPA LPC # (10-digit): 0530100002

Site Name: ABP Properties, LLC

Site Address (not a P.O. Box): 120 West 1st Street

City: Gibson City County: Ford Zip Code: 60936

Leaking UST Technical File

B. Tier 2 Calculation Information

Equation(s) Used (ex: R12,R14,R26): R16, R17, R18, R19, R21, R22, R23, R24, R26

Contact Information for Individual Who Performed Calculations:

0

Land Use: Residential Soil Type: Sand

Groundwater: Class I Class II

Mass Limit: Yes No If Yes, then Specify Acreage: _____

Objective from S17 used in R26? Yes No

If Yes, then Specify C_{source} from S17 See Attached mg/L.

- Mass Limit Acreage other than defaults must always be rounded up.
- Failure to use site-specific parameters where allowed could affect payment from the UST Fund
- Maps depicting source width, plume dimensions, distance, etc. must also be submitted.
- Inputs must be submitted in the designated unit.

AT _o	=	70	yr
AT _n	=	Residential = 30 Con. Worker = 0.115	yr
BW	=	70	yr
C _{source}	=	See Attached	mg/L
C _(x)	=	See Attached	mg/L
d	=	100	cm

D ^{air}	=	See Attached	cm ² /s
D ^{water}	=	See Attached	cm ² /s
D ₃ ^{off}	=	See Attached	cm ² /s
ED	=	Residential = 30 Con. Worker = 1	yr
EF	=	Residential = 350 Con. Worker = 30	d/yr

erf	=	See Attached	unitless
f _{cg}	=	0.0343	g/g
GW _{comp}	=	See Attached	mg/L
GW _{source}	=	See Attached	mg/L

RAF _d (PNAs)	=	0.05	unitless
RAF _d (Inorganics)	=	0	unitless
RAF _o	=	1	unitless
RBSL _{air} (carcinogenic)	=	See Attached	µg/m ³
RBSL _{air} (noncarcinogenic)	=	See Attached	µg/m ³
RfD _i	=	See Attached	mg/kg-d
SA	=	3,160	cm ² /d
S _d	=	200.0	cm
S _w	=	5,334.0	cm
SF _i	=	See Attached	(mg/kg-d) ⁻¹
SF _o	=	See Attached	(mg/kg-d) ⁻¹
THQ	=	1	unitless
TR	=	1.00E-06	unitless
U	=	6.3653	cm/d

H'	=	See Attached	cm ³ water/cm ³ soil
l	=	0.00964	cm/cm
l	=	30	cm/yr
IR _{air}	=	20	m ³ /d
IR _{soil}	=	Residential = 100 Con. Worker = 480	mg/d
IR _w	=	Residential = 2	L/d
K	=	239,328 87354.720	cm/d cm/yr
K _{oc}	=	See Attached	cm ³ /g or L/kg

U _{air}	=	225	cm/s
U _{gw}	=	87354.720	cm/y
VF _p	=	3.97133E-12	kg/m ³
VF _{ssmb}	=	See Attached	(mg/m ³ soil/mg/m ³ soil or kg/m ³)
VF _{ss}	=	See Attached	kg/m ³
W	=		cm
w	=	0.22	g _{water} /g _{soil}
δ _{air}	=	200	cm
δ _{gw}	=	200	cm
θ _{gs}	=	0.15874	cm ³ _{air} /cm ³ _{soil}
θ _{ws}	=	0.27126	cm ³ _{water} /cm ³ _{soil}
θ _r	=	0.43	cm ³ /cm ³ _{soil}
ρ _b	=	1.233	g/cm ³
ρ _w	=	1	g/cm ³

K _o (non-ionizing organics)	=	See Attached	cm ³ water/gsoil
K _o (ionizing organics)	=	Not Applicable	cm ³ water/gsoil
K _o (inorganics)	=	Not Applicable	cm ³ water/gsoil
L _s	=	100	cm
LF _{gw}	=	See Attached	(mg/Lsoil)/(mg/Lgw)
M	=	0.5	mg/cm ²
Pe	=	6.9 · 10 ⁻¹⁴	g/cm ² -s
RAF _d	=	0.5	unitless
α _x	=	See Attached	cm
α _y	=	See Attached	cm
α _z	=	See Attached	cm
λ	=	See Attached	d ⁻¹
π	=	3.1416	
τ	=	9.46 · 10 ⁸	s

Toluene R26 Modeled Groundwater from Vertical Modeled Soils								
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	α_x (cm)	α_y (cm)	α_z (cm)	erf: $s_w / (4 \cdot \sqrt{[\alpha_y \cdot X]})$	erf: $s_w / (2 \cdot \sqrt{[\alpha_z \cdot X]})$
1	0.8048	0.5683	30.48	3.048	1.016	0.1524	1	1
3	2.8609	0.9791	579.12	57.912	19.304	2.8956	1	0.99999986
4	0.2183	0.2052	30.48	3.048	1.016	0.1524	1	1

Toluene R26 Modeled Groundwater							
Location	C(x) (mg/L)	X (cm)	α_x (cm)	α_y (cm)	α_z (cm)	erf: $s_w / (4 \cdot \sqrt{[\alpha_y \cdot X]})$	erf: $s_w / (2 \cdot \sqrt{[\alpha_z \cdot X]})$

Naphthalene R26 Modeled Groundwater from Vertical Modeled Soils								
Location	C _{source} from S17 (mg/L)	C(x) (mg/L)	X (cm)	α_x (cm)	α_y (cm)	α_z (cm)	erf: $S_w / (4 \cdot \sqrt{[\alpha_x \cdot X]})$	erf: $S_w / (2 \cdot \sqrt{[\alpha_x \cdot X]})$

Naphthalene R26 Modeled Groundwater								
Location	C(x) (mg/L)	X (cm)	α_x (cm)	α_y (cm)	α_z (cm)	erf: $S_w / (4 \cdot \sqrt{[\alpha_x \cdot X]})$	erf: $S_w / (2 \cdot \sqrt{[\alpha_x \cdot X]})$	
MW-4	0.349	1798.32	179.832	59.944	8.9916	0.99999999	0.9099085	

Tier 2 Industrial/Commercial Calculations for Benzene

ABP Properties, LLC
2016-0917

Date Compiled: 12/05/19

SSL
IRIS/RECA

SSL & RBCA
IRIS/EAST

Input Values

Holcomb's Bulk Density	0	Converted Value to be used in calculation sheet	0	USDA Soil Classification	Sand
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000	Organic Matter (mg/kg)	0
FOC (mg/kg)	0.000	FOC conversion to g/g	0.000		
ρ_s - Dry Soil Bulk Density	1.233		1.5 or; Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific		
ρ_{ps} - Soil Particle Density	2.634		2.65 or; Site Specific		
θ_a - Air Filled Soil Porosity	0.289	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)		
θ_w - Water Filled Soil Porosity	0.243	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)		
η - SSL: Total Soil Porosity	0.532	Value from S-24	0.43 or; Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)		
i - Hydraulic Gradient	0.00964		Site Specific		
f_{oc} - Total Organic Carbon (g/g)	0.034		Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific		
DF - Dilution Factor	20.000	4.792	Value from S-22		
d - Mixing Zone (m)	4.695	4.695	Value from S-25		
d_s - Depth of source (m)	3.048		feet = 10		
K - Hydraulic Conductivity (m/yr)	873.55	cm/sec = 2.77E-03	Site Specific	2.39E+02	8.74E+04
L - Source Length Parallel to Groundwater Flow (m)	34.747		feet = 114		
d_a - Aquifer Thickness (m)	3.048		feet = 10		
I - Infiltration Rate (m/yr)	0.3		0.3 for Illinois		
K_s - Saturated Hydraulic Conductivity	1830		See Table K for Input Values		
GW_{obj} - Groundwater Remediation Objective Class 1	0.005		0.025		
GW_{obj} - Groundwater Remediation Objective Class 2	0.090		See Table K for Input Values		
BW - Body Weight	70		Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70		
IR_{soil} - Age Adjusted Soil Ingestion Factor for Carcinogens	114		114		
IR_{soil} - Soil Ingestion Rate	50		Residential = 200; Industrial/Commercial = 50; Construction Worker = 480		
SF_o - Oral Slope Factor	1		Residential = 2; Industrial/Commercial = 1		
IR_w - Daily Water Ingestion Rate	1800		Benzene = 1750		
S - Solubility in Water	1.0E-06		Residential = 10 ⁶ ; Industrial/Commercial = 10 ⁶ ; Construction Worker = 10 ⁶ at point of human exposure		
TR - Target Cancer Risk	70		70		
AT_c - Average Time for Carcinogens	250		Benzene = 7.5 x 10 ⁴		
URF - Inhalation Unit Risk Factor	25		Residential = 350; Industrial/Commercial = 250; Construction Worker = 30		
ED - Exposure Duration for Inhalation to Carcinogens	68.81		Residential = 30; Industrial/Commercial = 25; Construction Worker = 1		
Q/C - Inverse of the mean concentration at the center of a square source	7.90E+08		Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H		
T - Exposure Interval	30		Residential = 9.5 x 10 ⁵ ; Industrial/Commercial = 7.9 x 10 ⁶ ; Construction Worker = 3.6 x 10 ⁶		
T_{ML} - Exposure Interval for Malt Limit Volatilization Factor Equation S28	70		70		
ED_{ML} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28	0.18		0.18		
i_{ML} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28	0.088		Benzene = 0.088		
D_i - Diffusivity in Air	0.23		Benzene = 0.228		
H' - Henry's Law Constant	1.02E-05		Benzene = 9.8 x 10 ⁻⁶		
D_w - Diffusivity in Water	50		Benzene = 58.9		
K_{oc} - Organic Carbon Partition Coefficient					

Industrial/Commercial Ingestion Tier II Benzene Objective

$$S-3 = \frac{TR \times BW \times AT_c \times 365}{SF_o \times 10^{-6} \times EF \times ED \times IR_{soil}} = \frac{1.0E-06 \times 70 \times 70 \times 365}{0.055 \times 1.00E-06 \times 250 \times 25 \times 50} = \frac{1.8E+00}{1.72E-02} = 104.058 \text{ mg/kg}$$

Construction Worker Ingestion Tier II Benzene Objective

$$S-3 = \frac{TR \times BW \times AT_c \times 365}{SF_o \times 10^{-6} \times EF \times IR_{soil}} = \frac{1.0E-06 \times 70 \times 70 \times 365}{0.055 \times 1.00E-06 \times 30 \times 480} = \frac{1.8E+00}{7.92E-04} = 2258.21 \text{ mg/kg}$$

Tier 2 Industrial/Commercial Calculations for Benzene

ABP Properties, LLC
2016-0917

Industrial Commercial Inhalation Tier II Objective

$$S-6 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times 1/VF} = \frac{1.0E-06 \times 70 \times 365}{7.80E-06 \times 1000 \times 250 \times 25 \times (1/7.97E+03)} = \frac{0.02555}{6.12E-03} = 4.177 \text{ mg/kg}$$

Construction Worker Inhalation Tier II Objective

$$S-7 = \frac{TR \times ATc \times 365}{URF \times 1000 \times EF \times ED \times 1/VF} = \frac{1.0E-06 \times 70 \times 365}{7.80E-06 \times 1000 \times 30 \times 1 \times (1/5.38E+01)} = \frac{0.02555}{4.35E-03} = 5.874 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{(3.14 \times 4.73E-04 \times 7.90E+08)^{1/2} \times 0.0001}{(2 \times 1.233 \times 4.73E-04)} = \frac{9.2938}{0.0012} = 7969.7624$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{(3.14 \times 4.73E-04 \times 3.80E+06)^{1/2} \times 0.0001}{(2 \times 1.233 \times 4.73E-04)} = \frac{0.6274}{0.0012} = 538.0010$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{538.0010}{10} = 53.8001$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(0_w^{3.33} \times D_j \times H') + (0_w^{3.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + 0_w + (0_b \times H')}$$

$$= \frac{(1.60E-02 \times 0.088 \times 0.230) + (0.0090 \times 1.02E-05)}{0.2830} \times \frac{1}{(1.233 \times 1.715) + 0.24 + (0.289 \times 0.230)} = 4.73E-04$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(0_w + 0_b \times H')}{\rho_b} \right] = 0.1 \times \left[1.715 + \frac{0.243 + \frac{0.289 \times 0.230}{1.233}}{1.233} \right] = 0.197 \text{ mg/kg}$$

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Tier 2 Industrial/Commercial Calculations for Benzene

ABP Properties, LLC
2016-0917

Target Soil Leachate Concentration (Class 1)			
S-18 =	$C_w =$	$DF \times GW_{adj}$	$= 20.00 \times 0.005 = 0.1$
Soil-Water Partition Coefficient			
S-19 =	$K_d =$	$K_{oc} \times f_{oc}$	$= 50.00 \times 0.034 = 1.715$
Water-Filled Porosity			
S-20 =	$\Theta_w =$	$\eta \times \frac{1}{K_a^{1/(2n+1)}}$	$= 0.53 \times \left[\frac{0.300}{1830.000} \right]^{0.060} = 0.2428$
Air-Filled Porosity			
S-21 =	$\Theta_a =$	$\eta - \Theta_w$	$= 0.53 - 0.24 = 0.2890$
Dilution Factor			
S-22 =	$DF =$	$1 + \frac{K \times I \times d}{I \times L}$	$= 1 + \frac{873.55 \times 0.0096 \times 4.895}{0.300 \times 34.747} = 4.7925$
GW Ingestion			
S-23 =		$\frac{TR \times BW \times A_L \times 365}{SF_a \times IR_w \times EF \times ED}$	$= \frac{1.0E-06 \times 70 \times 70 \times 365}{0.055 \times 1.000 \times 250 \times 25} = \frac{1.8E+00}{343.75} = 0.0052 \text{ mg/L}$
Total Soil Porosity			
S-24 =	$\eta =$	$1 - \frac{\rho_b}{\rho_s}$	$= 1 - \frac{1.233}{2.634} = 0.5319$
Estimation of Mixing Zone Depth			
S-25 =	$d =$	$(0.0112 \times L^2)^{0.5} + d_e \left[1 - \exp \left(\frac{-(L \times I)}{(K \times I \times d_e)} \right) \right]$	$= (0.0112 \times 34.747^2)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-34.747 \times 0.3}{873.547 \times 0.0096 \times 3.048} \right) \right] = 4.895 \text{ m}$
Soil Saturation Limit			
S-29 =	$C_{sat} =$	$\frac{S}{\rho_w} \times [(K_d \times \rho_b) + \Theta_w + (H \times \theta_a)]$	$= \frac{1800}{1.233} \times [(1.715 \times 1.233) + 0.243 + (0.230 \times 0.289)] = 3,538.78 \text{ mg/kg}$
Soil Gas Outdoor Inhalation			
S-30 =	$ROs \text{ g} =$	$\frac{RC_{soil} \times H \times \rho_b \times 1000}{H \times \Theta_a + \Theta_w + K_d \times \rho_b}$	$= \frac{4.177 \times 0.230 \times 1.233 \times 1000}{2.300E-01 \times 0.289 + 0.243 + 1.715 \times 1.233} = 488.66 \text{ mg/m}^3$

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Tier 2 Industrial/Commercial Calculations for Toluene

ABP Properties, LLC
2016-0917

Date Compiled: 12/05/19

SSL
RBCA

SSL & RBCA
IR/S/HEAST

Input Values

Holcomb's Bulk Density	0	Converted Value to be used in calculation sheet ->	0	USDA Soil Classification: Sand
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000	Organic Matter (mg/kg)
			0	FOC mg/kg (0.58 conversion)
1.233	ρ_b - Dry Soil Bulk Density		1.5 or; Gravel = 2.0; Sand = 1.8; Silt = 1.8; Clay = 1.7; or Site Specific	
2.634	ρ_s - Soil Particle Density		2.65 or; Site Specific	
0.289	Φ_a - Air Filled Soil Porosity	0.289	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)
0.243	Φ_w - Water Filled Soil Porosity	0.243	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)
0.532	n - SSL: Total Soil Porosity	0.532	Value from S-24	0.43 or; Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24 or R23)
0.00964	I - Hydraulic Gradient		Site Specific	
0.034	f_{oc} - Total Organic Carbon (g/g)		Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific	
20.000	DF - Dilution Factor	4.792	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used
4.895	d - Mixing Zone (m)	4.895	Value from S-25	2; or calculated value
3.048	d_s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)
873.65	K - Hydraulic Conductivity (m/yr)	cm/sec = 2.77E-03		Site Specific 2.39E+02 cm/d 8.74E+04 m/yr Use cm/d for R15; R18; R26; and m/yr for R24
34.747	L - Source Length Parallel to Groundwater Flow (m)		feet = 114	Site Specific (m)
3.048	d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)
0.3	I - Infiltration Rate (m/yr)			0.3 for Illinois
1830	K_s - Saturated Hydraulic Conductivity			See Table K for Input Values
1.000	GW_{obj} - Groundwater Remediation Objective Class 1			2.5 GW_{obj} - Groundwater Remediation Objective Class 2
0.090	$1/(2b+3)$ - Exponent for S20			See Table K for Input Values
15	BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70
114	IR_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114
50	IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480
1	IR_w - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1
530	S - Solubility in Water			Toluene = 526
1.0E-06	TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-6} ; Construction Worker = 10^{-6} at point of human exposure
250	EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30
25	ED - Exposure Duration for Inhalation for Non-Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1
68.81	Q/C - Inverse of the mean concentration at the center of a square source			Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H
7.90E+08	T - Exposure Interval			Residential = 9.5×10^8 ; Industrial/Commercial = 7.9×10^8 ; Construction Worker = 3.6×10^8
30	T_{vol} - Exposure Interval for Mail Limit Volatilization Factor Equation S26			30
70	ED_{vol} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28			70
0.18	λ_{vol} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28			0.18
0.087	D_i - Diffusivity in Air			Toluene = 0.087
0.271	H' - Henry's Law Constant			Toluene = 0.272
8.60E-06	D_w - Diffusivity in Water			Toluene = 8.6×10^{-6}
25	AT - Average Time for Non-Carcinogens Ingestion Equation			Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115
25	AT - Average Time for Non-Carcinogens In Inhalation Equation			Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115
1	THQ - Target Hazard Quotient			1
0.3	RIC - Inhalation Reference Concentration			Chronic = 0.3; Subchronic = 0.3
0.8	RD ₃ - Oral Reference Dose			Chronic = 0.08; Subchronic = 0.8
158.00	K_{oc} - Organic Carbon Partition Coefficient			Toluene = 182

Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RI/D_s) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 25 \times 365}{0.000001 \times 1/1 \times 0.8 \times 250 \times 25 \times 50} = \frac{638750}{0.330625} = 1635200 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RI/D_s) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/1 \times 0.8 \times 30 \times 1 \times 480} = \frac{2938.25}{0.018} = 163236 \text{ mg/kg}$$

Industrial Commercial Inhalation

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RI/C \times 1/VF)} = \frac{1 \times 25 \times 365}{250 \times 25 \times 1/5 \times 1/12551.82484} = \frac{9125}{0.099587} = 91628.321 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RI/C \times 1/VF)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 1/5 \times 1/84.73143758} = \frac{41.975}{0.070812} = 592.767 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_s \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_s)} = 85.81 \times \left(\frac{3.14 \times 1.91E-04 \times 7.90E+08}{2 \times 1.233 \times 1.91E-04} \right)^{1/2} \times 0.0001 = \frac{5.9011}{4.70E-04} = 12551.8248$$

C (Toluene)

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Tier 2 Industrial/Commercial Calculations for Toluene

ABP Properties, LLC
2016-0917

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-1}}{(2 \times \rho_o \times D_A)} = 85.81 \times \frac{(3.14 \times 1.91E-04 \times 3.60E+06)^{1/2} \times 0.0001}{2 \times 1.233 \times 1.91E-04} = \frac{0.3984}{4.70E-04} = 847.3144$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{847.3144}{10} = 84.7314$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(\theta_w^{2.23} \times D_i \times H') + (\theta_w^{2.33} \times D_w)}{n^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_w \times H')}$$

$$= \frac{(1.80E-02 \times 0.087 \times 0.271) + (0.0090 \times 8.60E-06)}{0.2830} \times \frac{1}{(1.233 \times 5.4194) + 0.24 + (0.289 \times 0.271)} = 1.91E-04$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_w \times H')}{\rho_b} \right] = 20 \times \left[5.4194 + \frac{0.243 + 0.289 \times 0.271}{1.233} \right] = 113.600 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 1.000 = 20$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{ow} \times f_{oc} = 158.00 \times 0.034 = 5.4194$$

Water-Filled Porosity

$$S-20 = \theta_w = n \times \frac{1}{K_w}^{1/(2n-1)} = 0.53 \times \left[\frac{0.300}{1830.000} \right]^{0.002} = 0.2428$$

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Tier 2 Industrial/Commercial Calculations for Toluene
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Air-Filled Porosity

$$S-21 = \Theta_a = \eta \cdot \Theta_w = 0.53 \cdot 0.24 = 0.2890$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K \times l \times d}{l \times L} = \frac{873.55 \times 0.0098 \times 4.695}{0.300 \times 34.747} + 1 = 4.7925$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times At_c \times 365}{SF_o \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 15 \times 0 \times 365}{0.000 \times 1.000 \times 250 \times 25} = \frac{0.0E+00}{0} = \text{\#DIV/0!} \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.233}{2.634} = 0.5319$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L)^{0.5} + d_o \left[1 - \exp \left(\frac{-L \times l}{K \times l \times d_o} \right) \right]$$

$$= (0.0112 \times 34.747)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-34.747 \times 0.3}{873.547 \times 0.0098 \times 3.048} \right) \right] = 4.695 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{P_b} \times [(K_d \times \rho_b) + \Theta_w + (H' \times \Theta_a)] = \frac{530}{1.233} \times [(5.4194 \times 1.233) + 0.243 + (0.271 \times 0.289)] = 3,010.40 \text{ mg/kg}$$

Soil Gas Outdoor Inhalation

$$S-30 = RO_s \text{ g} = \frac{RO_{soil} \times H \times \rho_b \times 1000}{H' \times \Theta_a + \Theta_w + K_d \times \rho_b} = \frac{562.767 \times 0.271 \times 1.233 \times 1000}{2.710E-01 \times 0.289 + 0.243 + 5.419 \times 1.233} = 28,281.67 \text{ mg/m}^3$$

Tier 2 Industrial/Commercial Calculations for Ethylbenzene

ABP Properties, LLC
2016-0917

Date Compiled: 12/05/19

SSL
RBCA

SSL & RBCA
IRIS/HEAD

Input Values

Holcomb's Bulk Density	0	Converted Value to be used in calculation sheet	0	USDA Soil Classification	Sand
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000	FOC mg/kg (0.88 conversion)	0.000
1.233 ρ_d - Dry Soil Bulk Density	1.5	Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific		2.65	or Site Specific
2.634 ρ_s - Soil Particle Density					
0.289 θ_a - Air Filled Soil Porosity	0.289	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)		
0.243 θ_w - Water Filled Soil Porosity	0.243	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)		
0.532 n - SSL: Total Soil Porosity	0.532	Value from S-24	0.43 or Gravel - 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)		
0.00664 f_{oc} - Hydraulic Gradient			Site Specific		
0.034 f_{oc} - Total Organic Carbon (tdg)			Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific		
20.000 DF - Dilution Factor	4.792	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used		
4.695 d_m - Mixing Zone (m)	4.695	Value from S-25	2; or calculated value		
3.048 d_s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)		
873.55 K - Hydraulic Conductivity (m/yr)	cm/sec = 2.77E-03	Site Specific	2.39E+02 cm/d 8.74E+04 cm/yr Use default for R25, R19, R26; cm/yr for R24		
34.747 L - Source Length Parallel to Groundwater Flow (m)		feet = 114	Site Specific (m)		
3.048 d_a - Aquifer Thickness (m)		feet = 10	Site Specific (m)		
0.3 I - Infiltration Rate (m/yr)			0.3 for Illinois		
1830 K_s - Saturated Hydraulic Conductivity			See Table K for Input Values		
0.700 GW_{obj} - Groundwater Remediation Objective Class 1			1 GW_{obj} - Groundwater Remediation Objective Class 2		
0.090 $1/(2b+3)$ - Exponent for S20			See Table K for Input Values		
70 BW - Body Weight			Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70		
114 IF_{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens			114		
50 IR_{soil} - Soil Ingestion Rate			Residential = 200; Industrial/Commercial = 50; Construction Worker = 480		
1 IR_w - Daily Water Ingestion Rate			Residential = 2; Industrial/Commercial = 1		
170 S - Solubility in Water			Ethylbenzene = 169		
1.0E-06 TR - Target Cancer Risk			Residential = 10^{-6} ; Industrial/Commercial = 10^{-6} ; Construction Worker = 10^{-6} at point of human exposure		
250 EF - Exposure Frequency			Residential = 350; Industrial/Commercial = 250; Construction Worker = 30		
25 ED - Exposure Duration for Inhalation for Non-Carcinogens			Residential = 30; Industrial/Commercial = 25; Construction Worker = 1		
68.81 CI/C - Inverse of the mean concentration at the center of a square source			Residential = 68.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H		
7.90E+08 T - Exposure Interval			Residential = 9.5×10^8 ; Industrial/Commercial = 7.9×10^8 ; Construction Worker = 3.6×10^8		
30 T_{M1} - Exposure Interval for M1 Limit Volatilization Factor Equation S26			30		
70 T_{M2} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28			70		
0.18 i_{M1} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28			0.18		
0.075 D_a - Diffusivity in Air			Ethylbenzene = 0.075		
0.324 H' - Henry's Law Constant			Ethylbenzene = 0.323		
7.80E-06 D_w - Diffusivity in Water			Ethylbenzene = 7.8×10^{-6}		
25 AT - Average Time for Non-Carcinogens In Ingestion Equation			Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115		
25 AT - Average Time for Non-Carcinogens In Inhalation Equation			Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115		
1 THQ - Target Hazard Quotient			1		
100 $IRIC$ - Inhalation Reference Concentration			Chronic = 1 Subchronic = 100		
30.18 RD_50 - Oral Reference Dose			Chronic = 0.7 Subchronic = 0.05		
320.00 K_{oc} - Organic Carbon Partition Coefficient			Ethylbenzene = 363		

Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRIC) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 25 \times 365}{0.000001 \times 1/1 \times 0.1 \times 250 \times 25 \times 50} = \frac{638750}{3.125} = 204400 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IRIC) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 0.115 \times 365}{0.000001 \times 1/1 \times 0.05 \times 30 \times 1 \times 480} = \frac{2938.25}{0.288} = 10202 \text{ mg/kg}$$

Industrial Commercial Inhalation

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/IRIC) \times (1/VF)} = \frac{1 \times 25 \times 365}{250 \times 25 \times 1/1 \times 17399.49239} = \frac{9125}{0.359208} = 25403 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Industrial Commercial Inhalation Objective (Carcinogen)

$$S-6 = \frac{TR \times AT \times 365}{URF \times 1000 \times EF \times ED \times (1/VF)} = \frac{0.000001 \times 70 \times 365}{2.5E-06 \times 1000 \times 250 \times 25.0000 \times 1/17399.4924} = \frac{0.02555}{0.000898} = 28.452 \text{ mg/kg}$$

Tier 2 Inhalation Objective does not exceed Tier 1 Objective

Construction Worker Inhalation Objective (Carcinogen)

$$S-7 = \frac{TR \times AT \times 365}{URF \times 1000 \times EF \times ED \times (1/VF)} = \frac{0.000001 \times 70 \times 365}{2.5E-06 \times 1000 \times 30 \times 1.0000 \times 1/117.4558} = \frac{0.02555}{0.000639} = 40.013 \text{ mg/kg}$$

Tier 2 Inhalation Objective does not exceed Tier 1 Objective

C (Ethylbenzene)

Tier 2 Industrial/Commercial Calculations for Ethylbenzene

ABP Properties, LLC
2016-0917

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RC \times 1/VF)} = \frac{1 \times 0.115 \times 365}{30 \times 1 \times 1/9 \times 1/117.4557503} = \frac{41.975}{0.028379} = 1479.062 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{(3.14 \times 2 \times 9.92E-05 \times 7.90E+08)^{1/2} \times 0.0001}{2 \times 1.233 \times 9.92E-05} = \frac{4.2570}{2.45E-04} = 17399.4924$$

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{(3.14 \times 2 \times 9.92E-05 \times 3.60E+06)^{1/2} \times 0.0001}{2 \times 1.233 \times 9.92E-05} = \frac{0.2874}{2.45E-04} = 1174.5575$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF^* = \frac{VF}{10} = \frac{1174.5575}{10} = 117.4558$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(D_w^{3.33} \times D_s \times H^3) + (D_w^{3.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_w \times H)}$$

$$= \frac{(1.80E-02 \times 0.075 \times 0.324) + (0.0090 \times 7.80E-06)}{0.2830} \times \frac{1}{(1.233 \times 10.976) + 0.24 + (0.289 \times 0.324)} = 9.92E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_w \times H^3)}{\rho_b} \right] = 14 \times \left[10.976 + \frac{0.243 + (0.289 \times 0.324)}{1.233} \right] = 157.486 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 0.700 = 14$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 320.00 \times 0.034 = 10.976$$

Water-Filled Porosity

$$S-20 = \theta_w = \eta \times \frac{1}{K_u}^{1/(2b+3)} = 0.53 \times \left[\frac{0.300}{1830.000} \right]^{0.020} = 0.2428$$

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Tier 2 Industrial/Commercial Calculations for Ethylbenzene

ABP Properties, LLC
2016-0917

Air-Filled Porosity

$$S-21 = \Theta_a = \eta - \Theta_w = 0.53 - 0.24 = 0.2890$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K \times i \times d}{I \times L} = \frac{873.55 \times 0.0096 \times 4.695}{0.300 \times 34.747} + 1 = 4.7925$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times A_t \times 365}{SF_o \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 70 \times 0 \times 365}{0.000 \times 1.000 \times 250 \times 25} = \frac{0.0E+00}{0} = \text{\#DIV/0!} \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.233}{2.634} = 0.5319$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L^2)^{0.66} + d_o \left[1 - \exp \left(\frac{-L \times I}{K \times i \times d_o} \right) \right]$$

$$= (0.0112 \times 34.747^2)^{0.66} + 3.048 \times \left[1 - \exp \left(\frac{-34.747 \times 0.3}{873.547 \times 0.0096 \times 3.048} \right) \right] = 4.695 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{\rho_b} \times [(K_d \times \rho_b) + \Theta_w + (H' \times \rho_a)] = \frac{170}{1.233} \times [(10.976 \times 1.233) + 0.243 + (0.324 \times 0.289)] = 1,912.33 \text{ mg/kg}$$

Soil Gas Outdoor Inhalation

$$S-30 = RO_s \text{ g} = \frac{RO_{soil} \times H \times \rho_b \times 1000}{H' \times \Theta_a + \Theta_w + K_d \times \rho_b} = \frac{1479.062 \times 0.324 \times 1.233 \times 1000}{3.240E-01 \times 0.289 + 0.243 + 10.976 \times 1.233} = 42,600.68 \text{ mg/m}^3$$

Tier 2 Industrial/Commercial Calculations for Total Xylenes

ABP Properties, LLC
2016-0917

Date Compiled: 12/05/19

SSL RBCA
SSL & RBCA
RIS/HEAST

Input Values

1.233	ρ_b - Dry Soil Bulk Density	0	Converted Value to be used in calculation sheet ->	-	USDA Soil Classification: Sand
0.243	Organic Matter (%)	0	FOC % (0.88 conversion) ->	0.000	Organic Matter (mg/kg) 0
0.000	FOC (mg/kg)	0.000	FOC mg/kg (0.68 conversion)	0.000	foe conversion to g/g: 0.000
1.233	ρ_b - Dry Soil Bulk Density	1.5	or: Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific	2.65	or: Site Specific
2.634	ρ_s - Soil Particle Density				
0.289	θ_a - Air Filled Soil Porosity	0.289	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)	
0.243	θ_w - Water Filled Soil Porosity	0.243	Value from S-20	Top 1 meter = 0.16; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.16; Clay = 0.17; or Calculated Value (S20)	
0.532	n - SSL: Total Soil Porosity	0.532	Value from S-24	0.43 or: Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)	
0.00964	i - Hydraulic Gradient				Site Specific
0.034	foc - Total Organic Carbon (g/g)				Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific
20.000	DF - Dilution Factor	4.792	Value from S-22	If calculated value for DF is less than 20, then 20 default is used, else calculated value is used	
4.695	d - Mixing Zone (m)	4.695	Value from S-25	2; or calculated value	
3.048	d _s - Depth of source (m)		feet = 10	Depth of Source (Vertical thickness of contamination)	
873.55	K - Hydraulic Conductivity (m/yr)	cm/sec = 2.77E-03	Site Specific	2.39E+02 cm/d	6.74E+04 cm/yr [Use cm/d for R18, R19, & R26; cm/yr for R24]
34.747	L - Source Length Parallel to Groundwater Flow (m)		feet = 114	Site Specific (m)	
3.048	d _a - Aquifer Thickness (m)		feet = 10	Site Specific (m)	
0.3	i - Infiltration Rate (m/yr)				0.3 for Illinois
1830	K _s - Saturated Hydraulic Conductivity				See Table K for Input Values
10.000	GW _{obj} - Groundwater Remediation Objective Class 1				10 GW _{obj} - Groundwater Remediation Objective Class 2
0.090	1/(2b+3) - Exponent for S20				See Table K for Input Values
70	BW - Body Weight				Residential = 70 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70
114	IR _{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens				114
50	IR _{soil} - Soil Ingestion Rate				Residential = 200; Industrial/Commercial = 50; Construction Worker = 480
1	IR _w - Daily Water Ingestion Rate				Residential = 2; Industrial/Commercial = 1
110	S - Solubility in Water				Total Xylenes = 186
1.0E-06	TR - Target Cancer Risk				Residential = 10 ⁻⁶ ; Industrial/Commercial = 10 ⁻⁶ ; Construction Worker = 10 ⁻⁶ at point of human exposure
250	EF - Exposure Frequency				Residential = 350; Industrial/Commercial = 250; Construction Worker = 30
25	ED - Exposure Duration for Inhalation for Non-Carcinogens				Residential = 30; Industrial/Commercial = 25; Construction Worker = 1
68.81	Q/C - Inverse of the mean concentration at the center of a square source				Residential = 68.81; Industrial/Commercial = 68.81; Construction Worker = 85.81; or Table H
7.90E+08	T - Exposure Interval				Residential = 9.5 x 10 ⁸ ; Industrial/Commercial = 7.9 x 10 ⁸ ; Construction Worker = 3.6 x 10 ⁸
30	T _{MLL} - Exposure Interval for MLL Limit Volatilization Factor Equation S26				30
70	ED _{MLL} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28				70
0.18	i _{MLL} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28				0.18
0.074	D _i - Diffusivity in Air				Total Xylenes = 0.072
0.271	H' - Henry's Law Constant				Total Xylenes = 0.25
9.23E-06	D _w - Diffusivity in Water				Total Xylenes = 9.34 x 10 ⁻⁶
25	AT - Average Time for Non-Carcinogens In Ingestion Equation				Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115
25	AT - Average Time for Non-Carcinogens In Inhalation Equation				Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115
1	THQ - Target Hazard Quotient				1
0.1	RIC - Inhalation Reference Concentration				Chronic = 0.1; Subchronic = 0.4
0.2	RD ₅₀ - Oral Reference Dose				Chronic = 0.2; Subchronic = 0.4
398.00	K _{oc} - Organic Carbon Partition Coefficient				Total Xylenes = 260

Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IR) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 25 \times 365}{0.000001 \times 1/1 \times 0.2 \times 250 \times 25 \times 365} = \frac{636750}{1.5625} = 408800 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/IR) \times EF \times ED \times IR_{soil}} = \frac{1 \times 70 \times 25 \times 365}{0.000001 \times 1/1 \times 0.4 \times 30 \times 1 \times 480} = \frac{2938.25}{0.036} = 81618 \text{ mg/kg}$$

Industrial Commercial Inhalation

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RIC \times 1/VF)} = \frac{1 \times 25 \times 365}{250 \times 25 \times 1/1 \times 0.1 \times 1/1} = \frac{9125}{2.924479489} = 3120.213 \text{ mg/kg}$$

Tier 2 Inhalation Objective cannot exceed Soil Saturation Limit

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RIC \times 1/VF)} = \frac{1 \times 30 \times 365}{30 \times 1 \times 1/1 \times 0.4 \times 1/1} = \frac{41.975}{0.519866845} = 80.742 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_s \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_s)} = 85.81 \times \left(\frac{3.14 \times 6.58E-05 \times 7.90E+08}{2 \times 1.233 \times 6.58E-05} \right)^{1/2} \times 0.0001 = \frac{3.4658}{1.62E-04} = 21371.3245$$

Tier 2 Industrial/Commercial Calculations for Total Xylenes

ABP Properties, LLC
2016-0917

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_w \times D_A)} = 85.81 \times \left(\frac{3.14 \times 6.58E-05 \times 9.80E+06}{2 \times 1.233 \times 6.58E-05} \right)^{1/2} \times 0.0001 = \frac{0.2340}{1.62E-04} = 1442.6771$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{1442.6771}{10} = 144.2677$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(0_w^{3.33} \times D_s \times H') + (0_w^{3.33} \times D_w)}{\eta^2} \times \frac{1}{(\rho_w \times K_d) + \theta_w + (\theta_w \times H')}$$

$$= \frac{(1.60E-02 \times 0.074 \times 0.271) + (0.0090 \times 9.23E-08)}{0.2850} \times \frac{1}{(1.233 \times 13.6514) + 0.24 + (0.289 \times 0.271)} = 6.58E-05$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_s \times H')}{\rho_b} \right] = 200 \times \left[13.6514 + \left(\frac{0.243 + 0.289 \times 0.271}{1.233} \right) \right] = 2782.400 \text{ mg/kg}$$

Tier 2 Soil Component of GW Ingestion Objective cannot exceed Soil Saturation Limit

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = \frac{DF \times GW_{obj}}{DF \times GW_{obj}} = 20.00 \times 10.000 = 200$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 398.00 \times 0.034 = 13.6514$$

Water-Filled Porosity

$$S-20 = \Theta_w = \eta \times \frac{l}{K_c}^{1/(2n+3)} = 0.53 \times \left[\frac{0.300}{1830.000} \right]^{0.0360} = 0.2428$$

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Tier 2 Industrial/Commercial Calculations for Total Xylenes
 ABP Properties, LLC
 2016-0917

Air-Filled Porosity

$$S-21 = \Theta_a = \eta - \Theta_w = 0.53 - 0.24 = 0.2890$$

Dilution Factor

$$S-22 = DF = 1 + \frac{K \times I \times d}{I \times L} = \frac{873.55 \times 0.0096 \times 4.695}{0.300 \times 34.747} + 1 = 4.7925$$

GW Ingestion

$$S-23 = \frac{TR \times BW \times At_c \times 365}{SF_o \times IR_w \times EF \times ED} = \frac{1.0E-06 \times 70 \times 0 \times 365}{0.000 \times 1.000 \times 250 \times 25} = \frac{0.0E+00}{0} = \text{\#DIV/0!} \text{ mg/L}$$

Total Soil Porosity

$$S-24 = \eta_t = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.233}{2.634} = 0.5319$$

Estimation of Mixing Zone Depth

$$S-25 = d = (0.0112 \times L^2)^{0.5} + d_o \left[1 - \exp \left(\frac{-L \times I}{(K \times I \times d_o)} \right) \right]$$

$$= (0.0112 \times 34.747^2)^{0.5} + 3.048 \times \left[1 - \exp \left(\frac{-34.747 \times 0.3}{873.547 \times 0.0096 \times 3.048} \right) \right] = 4.695 \text{ m}$$

Soil Saturation Limit

$$S-29 = C_{sat} = \frac{S}{\rho_b} \times [(K_d \times \rho_b) + \Theta_w + (H' \times \Theta_a)] = \frac{110}{1.233} \times [(13.6514 \times 1.233) + 0.249 + (0.271 \times 0.289)] = 1,530.32 \text{ mg/kg}$$

Soil Gas Outdoor Inhalation

$$S-30 = RO_s g = \frac{RO_{soil} \times H \times \rho_b \times 1000}{H' \times \Theta_a + \Theta_w + K_d \times \rho_b} = \frac{80.742 \times 0.271 \times 1.233 \times 1000}{2.710E-01 \times 0.289 + 0.249 + 13.651 \times 1.233} = 1,572.82 \text{ mg/m}^3$$

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Tier 2 Industrial/Commercial Calculations for Naphthalene

ABP Properties, LLC
2016-0917

Date Compiled: 12/05/19

SSL
IRIS/HEAST

Input Values

Holcomb's Bulk Density	0	Converted Value to be used in calculation sheet ->	0	USDA Soil Classification:	Sand
Organic Matter (%)	0	FOC % (0.58 conversion)	0.000	Organic Matter (mg/kg)	0
1.233 ρ _s - Dry Soil Bulk Density		1.5 or: Gravel = 2.0; Sand = 1.8; Silt = 1.6; Clay = 1.7; or Site Specific		FOC mg/kg (0.58 conversion)	0.000
2.634 ρ _s - Soil Particle Density		2.65 or: Site Specific		for conversion to g/g:	0.000
0.289 ϕ _a - Air Filled Soil Porosity	0.289	Value from S-21	Top 1 meter = 0.28; below 1 meter = 0.13; Gravel = 0.05; Sand = 0.14; Silt = 0.24; Clay = 0.19; or Calculated Value (S21)		
0.243 ϕ _w - Water Filled Soil Porosity	0.243	Value from S-20	Top 1 meter = 0.15; below 1 meter = 0.30; Gravel = 0.20; Sand = 0.18; Silt = 0.18; Clay = 0.17; or Calculated Value (S20)		
0.632 η - SSL: Total Soil Porosity	0.632	Value from S-24	0.43 or: Gravel = 0.25; Sand = 0.32; Silt = 0.40; Clay = 0.36; or Calculated Value (S24)		
0.0094 I ₀ - Hydraulic Gradient		Site Specific			
0.034 f _{oc} - Total Organic Carbon (d/g)		Surface Soil = 0.006; Subsurface Soil = 0.002; or Site Specific			
20.000 DF - Dilution Factor		If calculated value for DF is less than 20, then 20 default is used, else calculated value is used			
4.695 z - Mixing Zone (m)		2; or calculated value			
3.048 d _s - Depth of source (m)		Depth of Source (Vertical thickness of contamination)			
873.55 K - Hydraulic Conductivity (m/yr)	cm/sec = 2.77E-03	Site Specific	2.39E+02 /cm/yr	8.74E+04 /cm/yr	Use cm/yr for R15, R19, & R26; cm/yr for R24
34.747 L - Source Length Parallel to Groundwater Flow (m)	feet = 114	Site Specific (m)			
3.048 d _a - Aquifer Thickness (m)	feet = 10	Site Specific (m)			
0.3 I - Infiltration Rate (m/yr)		0.3 for Illinois			
1830 K _s - Saturated Hydraulic Conductivity		See Table K for Input Values			
0.140 GW _{obj} - Groundwater Remediation Objective Class 1		0.22 GW _{obj} - Groundwater Remediation Objective Class 2			
0.090 1/(2b+3) - Exponent for S20		See Table K for input Values			
70 BW - Body Weight		Residential = 70 (carcinogenic); 15 (non-carcinogenic); Industrial/Commercial = 70; Construction Worker = 70; RBCA = 70			
114 iF _{adj} - Age Adjusted Soil Ingestion Factor for Carcinogens		114			
50 iR _{soil} - Soil Ingestion Rate		Residential = 200; Industrial/Commercial = 50; Construction Worker = 480			
1 iR _w - Daily Water Ingestion Rate		Residential = 2; Industrial/Commercial = 1			
31 S - Solubility in Water		Naphthalene = 31			
1.0E-06 TR - Target Cancer Risk		Residential = 10 ⁻⁶ ; Industrial/Commercial = 10 ⁻⁶ ; Construction Worker = 10 ⁻⁶ at point of human exposure			
250 EF - Exposure Frequency		Residential = 350; Industrial/Commercial = 250; Construction Worker = 30			
25 ED - Exposure Duration for Inhalation for Non-Carcinogens		Residential = 30; Industrial/Commercial = 25; Construction Worker = 1			
88.81 Q/C - Inverse of the mean concentration at the center of a square source		Residential = 88.81; Industrial/Commercial = 85.81; Construction Worker = 85.81; or Table H			
7.90E+08 T - Exposure Interval		Residential = 9.5 x 10 ⁸ ; Industrial/Commercial = 7.9 x 10 ⁸ ; Construction Worker = 3.6 x 10 ⁸			
30 T _{ML} - Exposure Interval for MLL Limit Volatilization Factor Equation S28		30			
70 ED _{ML} - Exposure Duration for Migration to Groundwater Mass-Limit Equation S28		70			
0.18 i _{ML} - Infiltration Rate for Migration to Groundwater Mass-Limit Equation S28		0.18			
0.059 D _i - Diffusivity in Air		Naphthalene = 0.059			
0.0198 H' - Henry's Law Constant		Naphthalene = 0.0198			
7.50E-06 D _w - Diffusivity in Water		Naphthalene = 7.5 x 10 ⁻⁶			
25 AT - Average Time for Non-Carcinogens In Ingestion Equation		Residential = 6; Industrial/Commercial = 25; Construction Worker = 0.115			
25 AT - Average Time for Non-Carcinogens In Inhalation Equation		Residential = 30; Industrial/Commercial = 25; Construction Worker = 0.115			
1 THQ - Target Hazard Quotient		1			
0.0033 RfC - Inhalation Reference Concentration		Chronic = 0.0033; Subchronic = 0.003			
0.0203 RfD _o - Oral Reference Dose		Chronic = 0.02; Subchronic = 0.02			
500.00 K _{oc} - Organic Carbon Partition Coefficient		Naphthalene = 2,000			

Industrial/Commercial Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RfD_o) \times EF \times ED \times iR_{soil}} = \frac{1 \times 70 \times 365}{0.000001 \times 1/0.02 \times 250 \times 25 \times 50} = \frac{638750}{15.625} = 40880 \text{ mg/kg}$$

Construction Worker Ingestion Remediation Objectives for Non-Carcinogenic Contaminants

$$S-1 = \frac{THQ \times BW \times AT \times 365}{10^{-6} \times (1/RfD_o) \times EF \times ED \times iR_{soil}} = \frac{1 \times 70 \times 365}{0.000001 \times 1/0.6 \times 30 \times 1 \times 480} = \frac{2938.25}{0.024} = 122427 \text{ mg/kg}$$

Industrial Commercial Inhalation

$$S-4 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RfC \times 1/VF)} = \frac{1 \times 365}{250 \times 25 \times 1/0.003 \times 1/98390.43481} = \frac{9125}{21.17414} = 430.950 \text{ mg/kg}$$

Inhalation Non-Carcinogenic Construction Worker

$$S-5 = \frac{THQ \times AT \times 365}{EF \times ED \times (1/RfC \times 1/VF)} = \frac{1 \times 365}{30 \times 1 \times 1/0.003 \times 1/664.1673273} = \frac{41.975}{15.06599} = 2.788 \text{ mg/kg}$$

RESIDENTIAL OR COMMERCIAL

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_s \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_s \times D_s)} = 85.81 \times \left(\frac{3.14 \times 3.10E-06 \times 7.90E+08}{2 \times 1.233 \times 3.10E-06} \right)^{1/2} \times 0.0001 = \frac{0.7528}{7.65E-06} = 98390.4349$$

Tier 2 Industrial/Commercial Calculations for Naphthalene

ABP Properties, LLC
2018-0917

Construction Worker

$$S-8 = VF = \frac{Q}{C} \times \frac{(3.14 \times D_A \times T)^{1/2} \times 10^{-4}}{(2 \times \rho_b \times D_A)} = 85.81 \times \frac{\left(\frac{3.14 \times 3.10E-06 \times 3.60E+08}{2 \times 1.233 \times 3.10E-06} \right)^{1/2} \times 0.0001}{7.65E-06} = \frac{0.0508}{7.65E-06} = 6641.8733$$

Equation for Derivation of Volatilization Factor - Construction Worker

$$S-9 = VF' = \frac{VF}{10} = \frac{6641.8733}{10} = 664.1873$$

Equation for Derivation of Apparent Diffusivity

$$S-10 = D_A = \frac{(D_{e,SO_2} \times D_i \times H') + (D_{e,SO_2} \times D_w)}{\eta^2} \times \frac{1}{(\rho_b \times K_d) + \theta_w + (\theta_a \times H')}$$

$$= \frac{\left(\frac{1.60E-02 \times 0.059 \times 0.020}{0.2830} \right) + \left(\frac{0.0090 \times 7.50E-06}{0.2830} \right)}{\left(\frac{1.233 \times 17.15}{0.24} \right) + \left(\frac{0.289 \times 0.020}{1.233} \right)} = 3.10E-06$$

Soil Component of the Migration to Groundwater Cleanup Objective (Class 1)

$$S-17 = C_w \times \left[K_d + \frac{(\theta_w + \theta_a \times H')}{\rho_b} \right] = 2.8 \times \left[17.15 + \left(\frac{0.243 + \frac{0.289 \times 0.020}{1.233}}{1.233} \right) \right] = 48.585 \text{ mg/kg}$$

Target Soil Leachate Concentration (Class 1)

$$S-18 = C_w = DF \times GW_{obj} = 20.00 \times 0.140 = 2.8$$

Soil-Water Partition Coefficient

$$S-19 = K_d = K_{oc} \times f_{oc} = 500.00 \times 0.034 = 17.15$$

Water-Filled Porosity

$$S-20 = \Theta_w = \eta \times \frac{1}{K_s}^{1/(2n+1)} = 0.53 \times \left[\frac{0.300}{1830.000} \right]^{0.600} = 0.2428$$

Tier 2 Industrial/Commercial Calculations for Naphthalene

ABP Properties, LLC
2016-0917

Air-Filled Porosity	
S-21 = $\theta_a = \eta - \theta_w$	= 0.53 - 0.24 = 0.2890
Dilution Factor	
S-22 = $DF = 1 + \frac{K_d \times I \times d}{I \times L}$	= $\frac{873.55 \times 0.0096 \times 4.695}{0.300 \times 34.747} + 1 = 4.7925$
GW Ingestion	
S-23 = $\frac{TR \times BW \times A_L \times 365}{SF_a \times IR_w \times EF \times ED}$	= $\frac{1.0E-06 \times 70 \times 0 \times 365}{0.000 \times 1.000 \times 250 \times 26} = \frac{0.0E+00}{0} = \text{\#DIV/0!} \text{ mg/L}$
Total Soil Porosity	
S-24 = $\eta = 1 - \frac{\rho_b}{\rho_s}$	= $1 - \frac{1.233}{2.634} = 0.5319$
Estimation of Mixing Zone Depth	
S-25 = $d = (0.0112 \times L^{0.65} + d_a) \left[1 - \exp\left(-\frac{(L \times I)}{(K_d \times I \times d_a)}\right) \right]$	= $(0.0112 \times 34.747^{0.65} + 3.048) \times \left[1 - \exp\left(-\frac{34.747 \times 0.3}{873.547 \times 0.0096 \times 3.048}\right) \right] = 4.695 \text{ m}$
Soil Saturation Limit	
S-29 = $C_{sat} = \frac{S}{\rho_b} \times [(K_d \times \rho_b) + \theta_w + (H' \times \theta_a)]$	= $\frac{31}{1.233} \times [(17.15 \times 1.233) + 0.243 + (0.020 \times 0.289)] = 537.90 \text{ mg/kg}$
Soil Gas Outdoor Inhalation	
S-30 = $RO_s \text{ g} = \frac{RO_{soil} \times H \times \rho_b \times 1000}{H' \times \theta_a + \theta_w + K_d \times \rho_b}$	= $\frac{2.788 \times 0.020 \times 1.233 \times 1000}{1.980E-02 \times 0.289 + 0.243 + 17.150 \times 1.233} = 3.18 \text{ mg/m}^3$

Electronic Filing: Received, Clerk's Office 07/24/2024

000110

ABP Properties, LLC
2016-0917

Appendix C - Table K
Parameter Estimates for Calculating Water - Filled Soil Porosity (Ow)

Soil Texture	Saturated Hydraulic Conductivity (Ks)	1 / (2b+3)
	(m/yr)	
Sand	1830	0.09
Loamy Sand	540	0.085
Sandy Loam	230	0.08
Silt Loam	120	0.074
Loam	60	0.073
Sandy Clay Loam	40	0.058
Silt Clay Loam	13	0.054
Clay Loam	20	0.05
Sandy Clay	10	0.042
Silt Clay	8	0.042
Clay	5	0.039

Version: 3/26/2018



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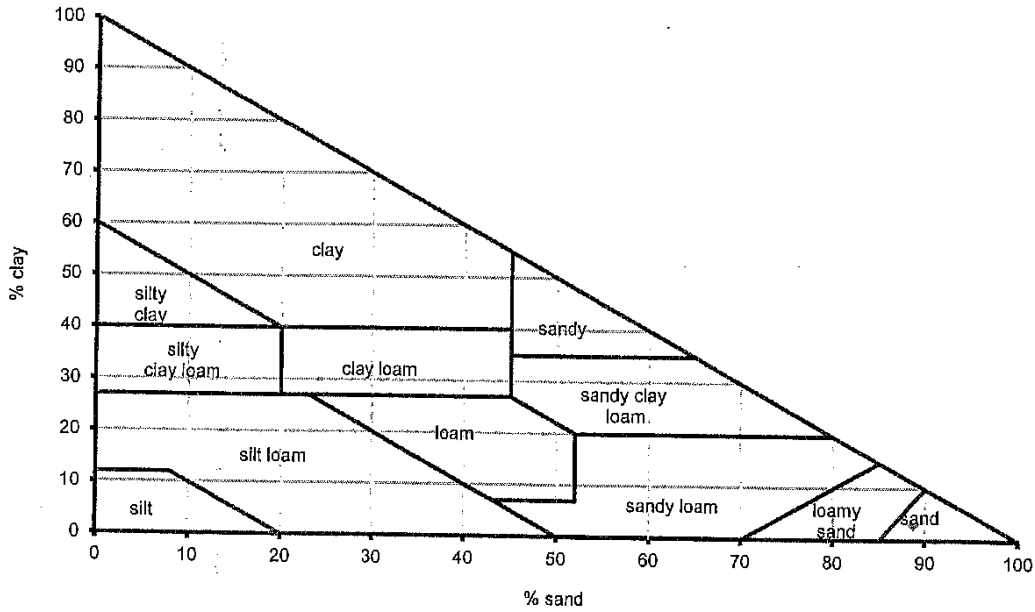


SLI Work Order: 1808A27
SLI Sample ID: 1808A27-001A

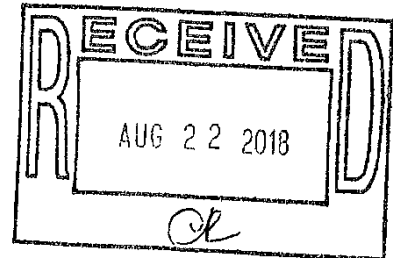
Analysis Date: 8/17/2018

% SAND	% CLAY	% SILT
88.8	3.3	7.20

Soil Classification: Sand



Textural triangle by A. Gerakis and B. Baer, 26 July 2000.



Bouwer & Rice Method
Version 2.00
6/18/1995

Notice to users: Each user will determine the accuracy of this program and its suitability to a particular purpose before basing any decisions upon program results. All risks of such decisions will be borne by the user. Please notify CSA of any suspected errors in the program.

©Creative Scientific Applications Calculation Status

Automatic Calculation

Bouwer & Rice Method for Calculating Hydraulic Conductivity

Project Name: ABP Properties, LLC

Project No.: 2016-0917

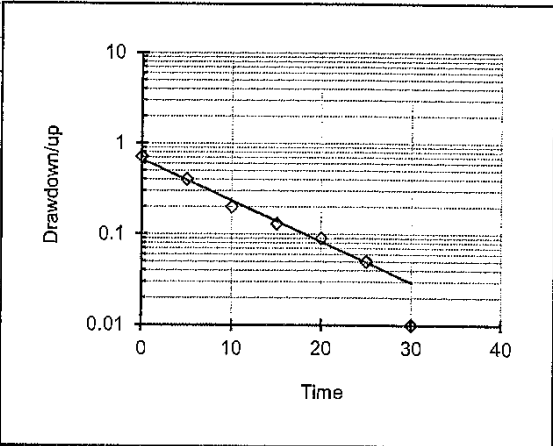
Client Name: ABP Properties, LLC

Identification: MW-3

Analysis By: JKK/KTR

Run Date: 2/5/2019

Riser Pipe Diameter:	0.1667 feet
Intake Diameter:	0.604 feet
Intake Length:	10 feet
Saturated Column Length:	9.58 feet
Water Table Depth:	5.5 feet
Aquifer Thickness:	10 feet
Line Fit Starting No.:	1 Min 1 to
Line Fit Ending No.:	6 Max 7
Specify Output Units:	7 1 to 9
Hyd. Cond., K(h):	2.77E-03 cm./sec.
Error of Fit:	0.042



Meas. #	Time seconds	Field Meas. feet	Drawdown/up feet	Line Fit To LN(Yt)	Regression On LN(Yt)
1)	0.00	4.79	0.71	-0.342	-0.421
2)	5.00	5.10	0.40	-0.916	-0.940
3)	10.00	5.30	0.20	-1.609	-1.459
4)	15.00	5.37	0.13	-2.040	-1.978
5)	20.00	5.41	0.09	-2.408	-2.497
6)	25.00	5.45	0.05	-2.996	-3.017
7)	30.00	5.49	0.01	-4.605	-3.536

APPENDIX F

**BORE LOGS AND WELL COMPLETION
REPORTS**

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

 Illinois Environmental Protection Agency	CW²M COMPANY, INC. DRILLING BOREHOLE LOG
--	--

LAST INCIDENT #: 2016-0917	BOREHOLE NUMBER: WC-1
SITE NAME: ABP Properties, LLC	BORING LOCATION: 20' S & 28' E of the SE corner of building
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 10/5/16 10:30 AM	DRILLING/SAMPLE METHOD: Push
DATE/TIME FINISHED: 10/5/16 10:45 AM	BACKFILL: Cuttings/Grout

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Subbase			0			
2	Brown Silty Clay	CL	95%	0	Grab	WC-1 2.5'	
3							
4							
5				0			
6	Dark Brown Silty Clay W/ Trace Fine Grain Sand	CL	100%	132			Odor and Discoloration
7				1178	Grab	WC-1 7.5'	BETX, MTBE, WC Parameters
8				1178			Wet
9							
10	End of Boring - 10'						↓
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at location of highest PID reading above water table

Manway / Surface Elevation:			
Groundwater Depth While Drilling:	~9'	Auger Depth:	10' Driller: AEDC
Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MDR

 Illinois Environmental Protection Agency	CW²M COMPANY, INC. DRILLING BOREHOLE LOG
--	--

LUST INCIDENT #: 2016-0917	BOREHOLE NUMBER: SB-1
SITE NAME: ABP Properties, LLC	BORING LOCATION: 54' S & 27' E of the SE corner of building
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 3/7/17 1:00 PM	DRILLING/SAMPLE METHOD: Push
DATE/TIME FINISHED: 3/7/17 1:15 PM	BACKFILL: Cuttings/Grout

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No odor or discoloration
2	Brown Silty Clay	CL	85%	0	Grab	SB-1A 2.5'	BETX, MTBE
3							
4							
5	Brown Mottled Gray Silty Clay	CL	95%	0	Grab	SB-1B 7.5'	BETX, MTBE
6							
7							
8	Fine-Grained Sand			0			Wet
9							
10							
11	End of Boring - 10'						
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

OTES: Sampled at 2.5' and 7.5' since zero PID throughout

Manway / Surface Elevation:			
<input checked="" type="checkbox"/> Groundwater Depth While Drilling:	9-10'	Auger Depth:	10' Driller: AEDC
<input type="checkbox"/> Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MDR/MJS

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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JUST INCIDENT #: 2016-0917 SITE NAME: ABP Properties, LLC SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	BOREHOLE NUMBER: SB-2 BORING LOCATION: 48' S & 21' W of the SW corner of building RIG TYPE: Truck mounted drill rig DRILLING/SAMPLE METHOD: Push BACKFILL: Cuttings/Grout
DATE/TIME STARTED: 3/7/17 1:15 PM DATE/TIME FINISHED: 3/7/17 1:30 PM	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No Odor or Discoloration
2	Brown Clayey Silt	CL	85%	0	Grab	SB-2A 2.5'	BETX, MTBE
3							
4							
5				0			
6	Brown Mottled Gray Silty Clay	CL	90%	0	Grab	SB-2B 7.5'	BETX, MTBE
7							
8	Fine-Grained Sand			0			Wet
9							
10							
11	End of Boring - 10'						
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

OTES: Sampled at 2.5' and 7.5' since zero PID throughout

Manway / Surface Elevation:			
Groundwater Depth While Drilling:	~10'	Auger Depth: 10'	Driller: AEDC
Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MDR/MJS

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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PLUST INCIDENT #: 2016-0917	BOREHOLE NUMBER: SB-3
SITE NAME: ABP Properties, LLC	BORING LOCATION: 33' S & 22' W of the SW corner of building
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 3/7/17 1:30 PM	DRILLING/SAMPLE METHOD: Push
DATE/TIME FINISHED: 3/7/17 1:45 PM	BACKFILL: Cuttings/Grout

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No Odor or Discoloration
2	Black Clayey Silt	CL	90%	0	Grab	SB-3A 2.5'	BETX, MTBE
3				0			
4							
5				0			
6							
7	Brown Mottled Gray Silty Clay	CL	95%	0	Grab	SB-3B 7.5'	BETX, MTBE
8				0			
9	Fine-Grained Sand						Wet
10				0			
11	End of Boring - 10'						
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at 2.5' and 7.5' since zero PID throughout

Manway / Surface Elevation:			
<input checked="" type="checkbox"/> Groundwater Depth While Drilling:	~10'	Auger Depth: 10'	Driller: AEDC
<input type="checkbox"/> Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MDR/MJS

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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LUST INCIDENT #: 2016-0917	BOREHOLE NUMBER: MW-1
SITE NAME: ABP Properties, LLC	BORING LOCATION: 26' S & 65' E of the SE corner of building
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 3/7/17 9:30 AM	DRILLING/SAMPLE METHOD: HSA
DATE/TIME FINISHED: 3/7/17 10:15 AM	BACKFILL: N/A - Well Set

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No Odor or Discoloration
2	Black Silty Clay	CL	85%	0	Grab	MW-1A 2.5'	BETX, MTBE
3							
4	Brown Silty Clay			0			
5							
6	Brown Mottled Gray Silty Clay	CL		0			
7							
8			95%	0	Grab	MW-1B 7.5'	BETX, MTBE
9	Fine-Grained Sand						Wet
10				0			
11							
12							
13			100%				
14							
15	End of Boring - 15'						

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at 2.5' and 7.5' since zero PID throughout

Manway / Surface Elevation:	100.36			
Groundwater Depth While Drilling:	9-10'	Auger Depth:	15'	Driller: AEDC
Groundwater Depth After Drilling:	94.08	Rotary Depth:		Geologist: MDR/MJS

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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PLAST INCIDENT #: 2016-0917 SITE NAME: ABP Properties, LLC SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	BOREHOLE NUMBER: MW-2 BORING LOCATION: 76' S & 19' W of the SE corner of building RIG TYPE: Truck mounted drill rig DRILLING/SAMPLE METHOD: HSA BACKFILL: N/A - Well Set
--	---

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No Odor or Discoloration
2	Black Clayey Silt	CL	85%	0	Grab	MW-2A 2.5'	BETX, MTBE
3							
4							
5	Brown Mottled Gray Clay	CL		11			Strong Odor and Discoloration
6							
7							
8	Fine-Grained Sand		95%	36	Grab	MW-2B 7.5'	BETX, MTBE Wet
9							
10							
11			100%	15			
12							
13							
14	End of Boring - 15'						
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

OTES: Sampled at 2.5' and 7.5' (highest PID reading)

Manway / Surface Elevation:	99.98	Auger Depth:	15'	Driller:	AEDC
Groundwater Depth While Drilling:	9-10'	Rotary Depth:		Geologist:	MDR/MJS
Groundwater Depth After Drilling:	93.88				



 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
--	---

PLUST INCIDENT #: 2016-0917 SITE NAME: ABP Properties, LLC SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	BOREHOLE NUMBER: MW-3 BORING LOCATION: 37' S & 70' W of the SW corner of building RIG TYPE: Truck mounted drill rig DRILLING/SAMPLE METHOD: HSA BACKFILL: N/A - Well Set
DATE/TIME STARTED: 3/7/17 11:00 AM DATE/TIME FINISHED: 3/7/17 11:45 AM	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No Odor or Discoloration
2	Black Clayey Silt	CL	95%	0	Grab	MW-3A 2.5'	BETX, MTBE
3							
4							
5	Brown Clayey Silt	CL		0			
6							
7							
8	Fine-Grained Sand		90%	6	Grab	MW-3B 7.5'	BETX, MTBE - Slight Odor Wet
9							
10							
11			95%				
12							
13							
14	End of Boring - 15'						
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

OTES: Sampled at 2.5' and 7.5' (highest PID reading)

Manway / Surface Elevation:	100.49		
 Groundwater Depth While Drilling:	9-10'	Auger Depth: 15'	Driller: AEDC
 Groundwater Depth After Drilling:	94.18	Rotary Depth:	Geologist: MDR/MJS

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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LUST INCIDENT #: 2016-0917	BOREHOLE NUMBER: MW-4
SITE NAME: ABP Properties, LLC	BORING LOCATION: 22' N & 22' E of the SE corner of building
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	RIG TYPE: Truck mounted drill rig
DATE/TIME STARTED: 3/7/17 11:45 AM	DRILLING/SAMPLE METHOD: HSA
DATE/TIME FINISHED: 3/7/17 12:30 AM	BACKFILL: N/A - Well Set

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No Odor or Discoloration
2	Brown Clayey Silt	CL	85%	0	Grab	MW-4A 2.5'	BETX, MTBE
3				0			
4							
5	Black Clayey Silt						
6				0			
7	Black Mottled Gray Silty Clay	CL	90%	0	Grab	MW-4B 7.5'	BETX, MTBE
8							
9	Fine-Grained Sand						Wet
10				0			
11							
12							
13			100%				
14							
15	End of Boring - 15'						

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at 2.5' and 7.5' since zero PIDs found

Manway / Surface Elevation:	99.98		
▼ Groundwater Depth While Drilling:	9-10'	Auger Depth:	15' Driller: AEDC
▽ Groundwater Depth After Drilling:	92.81	Rotary Depth:	Geologist: MDR/MJS

 **Illinois Environmental Protection Agency** **CW-M COMPANY, INC.**
DRILLING BOREHOLE LOG

WT INCIDENT #: 2016-0917

SITE NAME: ABP Properties, LLC **BOREHOLE NUMBER:** MW-5

SITE ADDRESS: 120 W. 1st Street **BORING LOCATION:** 35' N & 23' E of the SE corner of building

Gibson City, IL 60936

DATE/TIME STARTED: 3/7/17 12:30 PM **RIG TYPE:** Truck mounted drill rig

DATE/TIME FINISHED: 3/7/17 1:00 PM **DRILLING/SAMPLE METHOD:** HSA

BACKFILL: N/A - Well Set


DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
	Subbase						
1	Brown Clayey Silt	CL	90%	0	Grab	MW-5A 2.5'	No Odor or Discoloration
2							
3				0			
4							
5				0			
6		CL	95%	0	Grab	MW-5B 7.5'	Wet
7							
8	Fine-Grained Sand			0			
9							
10							
11							
12							
13			95%				
14							
15	End of Boring - 15'						

Stratification lines are approximate, in-situ transition between soil types may be gradual.
 NOTES: No Samples taken per Regs - Well set only

Manway / Surface Elevation: 100

Groundwater Depth While Drilling: 9-10' Auger Depth: 15' Driller: AEDC

Groundwater Depth After Drilling: 93.55 Rotary Depth: Geologist: MDR/MJS

 Illinois Environmental Protection Agency	CW M COMPANY, INC. DRILLING BOREHOLE LOG
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LAST INCIDENT #: 2016-0917 SITE NAME: ABP Properties, LLC SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	BOREHOLE NUMBER: TACO-1 BORING LOCATION: 37' S & 70' W of the SW corner of building RIG TYPE: Truck mounted drill rig DRILLING/SAMPLE METHOD: Push BACKFILL: Cuttings/Grout
DATE/TIME STARTED: 8/8/2018 10:00 AM DATE/TIME FINISHED: 8/8/2018 10:10 AM	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt						
1	Subbase						No Odor or Discoloration
2	Black Clayey Silt	CL	90%	0			
3				0			
4				0			
5	Brown Clayey Silt	CL	90%	0			TACO parameters
6				0			
7				0			
8	Fine-Grained Sand			0	Grab	TACO	
9				0			
10	End of Boring - 10'						
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

OTES: Sample taken from 7.5'-8

Manway / Surface Elevation:			
<input checked="" type="checkbox"/> Groundwater Depth While Drilling:	~9.5-10'	Auger Depth: 10'	Driller: AEDC
<input type="checkbox"/> Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MJS/GTR

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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JUST INCIDENT #: 2016-0917 SITE NAME: ABP Properties, LLC SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	BOREHOLE NUMBER: SB-4 BORING LOCATION: 6' S & 22' W of the SE corner of building RIG TYPE: Truck mounted drill rig DRILLING/SAMPLE METHOD: Push BACKFILL: Cuttings/Grout
DATE/TIME STARTED: 8/8/2018 10:10 AM DATE/TIME FINISHED: 8/8/2018 10:20 AM	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete						
1	Subbase						No Odor or Discoloration
2	Black Clayey Silt	CL	80%	0	Grab	SB-4A	BETX, MTBE
3				0			
4				0			
5	Brown mottled gray clayey silt	CL	80%	0	Grab	SB-4B	Odor and discoloration BETX, MTBE Wet
6				0			
7				65			
8	End of Boring - 10'			0			
9				0			
10				0			
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Only sampled to 10' due to higher groundwater

Sampled at center of each 5' interval due to 0 PID or highest PID level per 5' interval

Manway / Surface Elevation:

Groundwater Depth While Drilling: ~9.5-10'	Auger Depth: 10'	Driller: AEDC	
Groundwater Depth After Drilling:	Rotary Depth:	Geologist: MJS/GTR	

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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INCIDENT #: 2016-0917	BOREHOLE NUMBER: SV-1
SITE NAME: ABP Properties, LLC	BORING LOCATION: 1' W of Sample 3 Station Building
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	RIG TYPE: Truck mounted geoprobe
DATE/TIME STARTED: 2/12/20 10:05 A.M.	DRILLING/SAMPLE METHOD: Push
DATE/TIME FINISHED: 2/12/20 10:15 A.M.	BACKFILL: Cuttings/Grout

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete / Subbase						
1	Black Silty Clay	CL	90%		G	SV-1	Strong Odor throughout
2							Soil Vapor Parameters
3							
4	End of Boring - 4'						
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

DTES:

Manway / Surface Elevation:			
Groundwater Depth While Drilling:	N/A	Auger Depth: 4'	Driller: AEDC
Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MJS/JKK

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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PLUST INCIDENT #: 2016-0917 SITE NAME: ABP Properties, LLC SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	BOREHOLE NUMBER: CA-1 BORING LOCATION: 56' S & 9' E of the SW Corner of the Station Building RIG TYPE: Truck mounted geoprobe DRILLING/SAMPLE METHOD: Push BACKFILL: Cuttings/Grout
DATE/TIME STARTED: 2/12/20 10:15 A.M. DATE/TIME FINISHED: 2/12/20 10:25 A.M.	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt / Subbase						
1	Black Silty Clay	CL		375			Odor Throughout
2			80%				
3				1040	Grab	CA-1	Benzene
4				563			
5	Black Mottled Grey Silty Clay	CL					
6	End of Boring - 5'						
7							
8							
9							
10							
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at 3' due to highest PID in 0-5' interval

Manway / Surface Elevation:			
Groundwater Depth While Drilling:	N/A	Auger Depth: 5'	Driller: AEDC
Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MJS/JKK



Illinois Environmental Protection Agency

**CW-M COMPANY, INC.
DRILLING BOREHOLE LOG**

Page 1 of 1

LUST INCIDENT #: 2016-0917		BOREHOLE NUMBER: CA-2	
SITE NAME: ABP Properties, LLC		BORING LOCATION: 42' S & 6' W of the SW Corner of the Station Building	
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936		RIG TYPE: Truck mounted geoprobe	
DATE/TIME STARTED: 2/12/20 10:25 A.M.		DRILLING/SAMPLE METHOD: Push	
DATE/TIME FINISHED: 2/12/20 10:35 A.M.		BACKFILL: Cuttings/Grout	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Asphalt / Subbase						
1	Black Silty Clay	CL					Odor Throughout
2			80%	2700	Grab	CA-2	Benzene
3				1809			
4	Black Mottled Grey Silty Clay	CL		1643			
5	End of Boring - 5'						
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

NOTES: Sampled at 2.5' due to highest PID in 0-5' interval

Manway / Surface Elevation:

Groundwater Depth While Drilling:	N/A	Auger Depth:	5'	Driller:	AEDC
Groundwater Depth After Drilling:		Rotary Depth:		Geologist:	MJS/JKK

 Illinois Environmental Protection Agency	CW-M COMPANY, INC. DRILLING BOREHOLE LOG
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PLAST INCIDENT #: 2016-0917	BOREHOLE NUMBER: CA-3
SITE NAME: ABP Properties, LLC	BORING LOCATION: 9' S & 7' E of the SW Corner of the Station Building
SITE ADDRESS: 120 W. 1st Street Gibson City, IL 60936	
DATE/TIME STARTED: 2/12/20 10:35 A.M.	RIG TYPE: Truck mounted geoprobe
DATE/TIME FINISHED: 2/12/20 10:45 A.M.	DRILLING/SAMPLE METHOD: Push
BACKFILL: Cuttings/Grout	

DEPTH (FEET)	SOIL AND ROCK DESCRIPTION	USCS CLASS	Sample Recovery	PID (ppm)	Sample Type	SAMPLE NUMBER	REMARKS: (Odor, Color, Moisture, Penetrometer, etc.)
0	Concrete / Subbase						
1	Light Brown Silty Clay	CL		0			No Odor or Discoloration Throughout
2			80%	0	Grab	CA-3	Benzene
3					0		
4							
5	End of Boring - 5'						
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Stratification lines are approximate, in-situ transition between soil types may be gradual.

OTES: Sampled at the center of 0-5' interval due to 0 PID

Manway / Surface Elevation:			
Groundwater Depth While Drilling:	N/A	Auger Depth: 5'	Driller: AEDC
Groundwater Depth After Drilling:		Rotary Depth:	Geologist: MJS/JKK

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2016-0917
 Site Name ABP Gibson City
 Drilling Contractor AEDC
 Driller AEDC
 Drilling Method Hollow Stem Auger

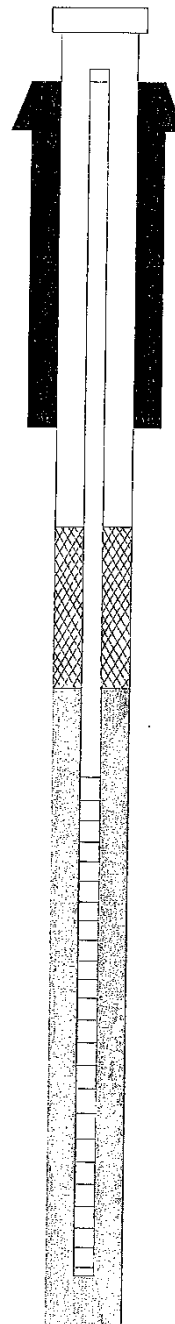
Well No. MW-1
 Date Drilled 3/7/2017
 Date Completed 3/7/2017
 Geologist MDR/MJS
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 100.36 ft.
 Top of riser pipe 100.11 ft.
 Ground surface 100.36 ft.
 Top of Annular Sealant 99.86 ft.
 Casing Stickup N/A

Top of Seal 99.86 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.86 ft.
 Top of Screen 95.86 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.86 ft.
 Bottom of Borehole 85.36 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	9-10' ft. while drilling
Depth to Water	94.08 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	Approximately 1 gallon
Gallons removed (purge)	Approximately 1 gallon
Other	

Completed by: MTK

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2016-0917
 Site Name ABP Gibson City
 Drilling Contractor AEDC
 Driller AEDC
 Drilling Method Hollow Stem Auger

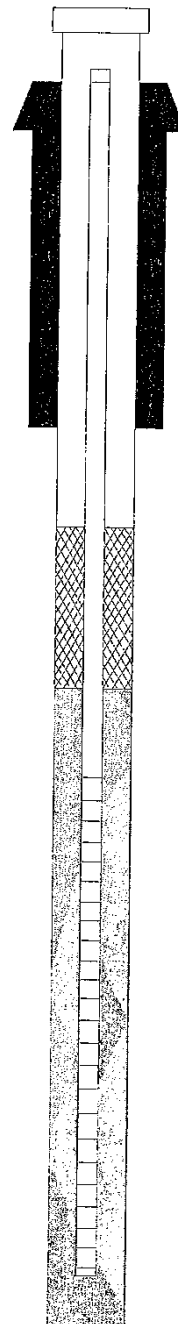
Well No. MW-2
 Date Drilled 3/7/2017
 Date Completed 3/7/2017
 Geologist MDR/MJS
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 99.98 ft.
 Top of riser pipe 99.73 ft.
 Ground surface 99.98 ft.
 Top of Annular Sealant 99.48 ft.
 Casing Stickup N/A

Top of Seal 99.48 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.48 ft.
 Top of Screen 95.48 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.48 ft.
 Bottom of Borehole 84.98 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	9-10' ft. while drilling
Depth to Water	93.88 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	Approximately 1 gallon
Gallons removed (purge)	Approximately 1 gallon
Other	

Completed by: MTK

Illinois Environmental Protection Agency

LUST Well Completion Report

Incident No. 2016-0917
 Site Name ABP Gibson City
 Drilling Contractor AEDC
 Driller AEDC
 Drilling Method Hollow Stem Auger

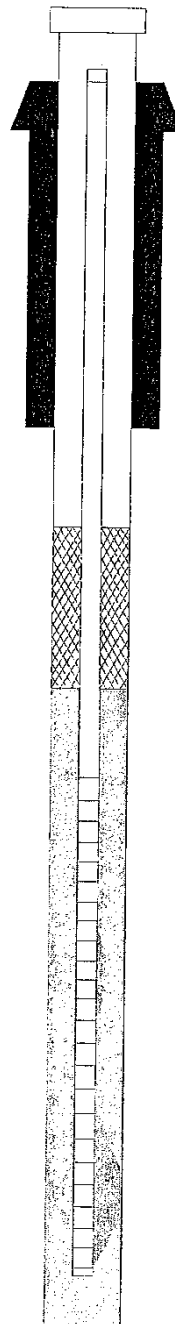
Well No. MW-3
 Date Drilled 3/7/2017
 Date Completed 3/7/2017
 Geologist MDR/MJS
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel



Top of Protective Casing 100.49 ft.
 Top of riser pipe 100.24 ft.
 Ground surface 100.49 ft.
 Top of Annular Sealant 99.99 ft.
 Casing Stickup N/A

Top of Seal 99.99 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.99 ft.
 Top of Screen 95.99 ft.

Total Screen Interval 10.0 ft.

Bottom of Screen 85.99 ft.
 Bottom of Borehole 85.49 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	9-10' ft. while drilling
Depth to Water	94.18 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	Approximately 1 gallon
Gallons removed (purge)	Approximately 1 gallon
Other	

Completed by: MTK

Illinois Environmental Protection Agency

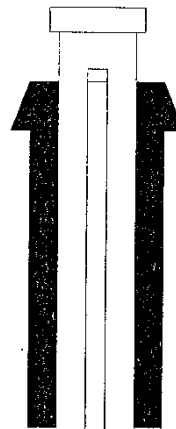
LUST Well Completion Report

Incident No. 2016-0917
 Site Name ABP Gibson City
 Drilling Contractor AEDC
 Driller AEDC
 Drilling Method Hollow Stem Auger

Well No. MW-4
 Date Drilled 3/7/2017
 Date Completed 3/7/2017
 Geologist MDR/MJS
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20



Top of Protective Casing 99.98 ft.
 Top of riser pipe 99.73 ft.
 Ground surface 99.98 ft.
 Top of Annular Sealant 99.48 ft.
 Casing Stickup N/A

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint		Sched.-40	
Screen to Riser			
Protective Casing			Steel

Top of Seal 99.48 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.48 ft.
 Top of Screen 95.48 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	9-10' ft. while drilling
Depth to Water	92.81 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	Approximately 1 gallon
Gallons removed (purge)	Approximately 1 gallon
Other	

Total Screen Interval 10.0 ft.

Completed by: MTK

Bottom of Screen 85.48 ft.
 Bottom of Borehole 84.98 ft.

Illinois Environmental Protection Agency

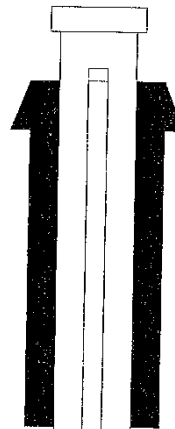
LUST Well Completion Report

Incident No. 2016-0917
 Site Name ABP Gibson City
 Drilling Contractor AEDC
 Driller AEDC
 Drilling Method Hollow Stem Auger

Well No. MW-5
 Date Drilled 3/7/2017
 Date Completed 3/7/2017
 Geologist MDR/MJS
 Drilling Fluids N/A

Annular Space Details

Type of Surface Seal Concrete
 Type of Annular Sealant Bentonite
 Type of Bentonite High-Yield
 Type of Sand Pack Coarse 20-20



Top of Protective Casing 100.00 ft.
 Top of riser pipe 99.75 ft.
 Ground surface 100.00 ft.
 Top of Annular Sealant 99.50 ft.
 Casing Stickup N/A

Well Construction Materials

	Stainless Steel Type	PVC Specify Type	Other Specify Type
Riser Coupling Joint			
Riser Pipe Above w.t.		Sched.-40	
Riser Pipe Below w.t.			
Screen		Sched.-40	
Coupling Joint			
Screen to Riser		Sched.-40	
Protective Casing			Steel

Top of Seal 99.50 ft.
 Total Seal interval 3.00 ft.
 Top of Sand 96.50 ft.
 Top of Screen 95.50 ft.

Measurements

Riser Pipe Length	4.25 ft.
Screen Length	10.0 ft.
Screen Slot Size	10-slot
Protective Casing Length	N/A
Depth to Water	9-10' ft. while drilling
Depth to Water	93.55 ft. static
Free Product Thickness	N/A
Gallons removed (develop)	Approximately 1 gallon
Gallons removed (purge)	Approximately 1 gallon
Other	

Total Screen Interval 10.0 ft.

Completed by: MTK

Bottom of Screen 85.50 ft.
 Bottom of Borehole 85.00 ft.

APPENDIX G
ANALYTICAL RESULTS

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

ABP Properties - Gibson City
Site Assessment Data

Release Confirmation/Waste Characterization

Parameter	Location	WC-1
	Date	10/5/2016
	Depth	
Tier I CUO		
Benzene	0.03	9.46
Ethylbenzene	13.0	25.9
Toluene	12.0	103.
Total Xylenes	5.6	137.
MTBE	0.32	ND

Results in mg/kg

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.

BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.

ND -- Not Detected

ABP - Gibson City
Site Assessment Data

Early Action Release Confirmation - Soil

	Location	RC-1	RC-2
	Date	11/15/2016	11/16/2016
	Depth	13'	13'
Parameter	Tier I CUO		
Benzene	0.03	12.	15.
Ethylbenzene	13.0	39.8	49.7
Toluene	12.0	154.	201.
Total Xylenes	5.6	208.	273.
MTBE	0.32	ND	ND

Results in mg/kg

Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.

BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.

ND -- Not Detected

ABP - Gibson City
Site Assessment Data

Early Action - Soil

	Location	1	2	3	4	5	6	7	8
	Date	11/16/2016	11/16/2017	11/16/2016	11/16/2017	11/17/2016	11/17/2016	11/17/2016	11/17/2016
	Depth	3'	3'	3'	3'	13'	13'	13'	7'
Parameter	Tier I CUO								
Benzene	0.03	5.2	ND	32.5	1.54	0.16	0.122	ND	ND
Ethylbenzene	13.0	13.5	16.9	63.5	9.26	0.272	0.1	ND	ND
Toluene	12.0	68.7	ND	325.	24.8	1.57	0.0959	0.063	ND
Total Xylenes	5.6	74.7	83.4	343.	49.1	1.48	0.201	0.0942	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	570								ND
Acenaphthylene	30								ND
Anthracene	12,000								ND
Benzo(a)anthracene	0.9								ND
Benzo(a)pyrene	0.09								ND
Benzo(b)fluoranthene	0.9								ND
Benzo(g,h,i)perylene	160								ND
Benzo(k)fluoranthene	9								ND
Chrysene	88								ND
Dibenzo(a,h)anthracene	0.09								ND
Fluoranthene	3,100								ND
Fluorene	560								ND
Indeno(1,2,3-c,d)pyrene	0.9								ND
Napthalene	1.8								ND
Phenanthrene	280								ND
Pyrene	2,300								ND
Results in mg/kg									
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.									
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.									
ND – Not Detected									

Electronic Filing: Received, Clerk's Office 07/24/2024

ABP - Gibson City
Site Assessment Data

Early Action - Soil

Location	9	10	11	12	13	14	15	16
Date	11/17/2016	11/17/2016	11/17/2016	11/18/2016	11/18/2016	11/18/2016	11/18/2016	11/21/2016
Depth	7'	13'	7'	7'	7'	7'	7'	13'
Parameter	Tier I CUO							
Benzene	0.03	ND	ND	ND	ND	ND	0.103	0.0172
Ethylbenzene	13.0	ND	ND	ND	ND	ND	0.423	ND
Toluene	12.0	ND	0.0549	ND	ND	ND	ND	0.109
Total Xylenes	5.6	ND	0.133	ND	ND	ND	ND	0.0766
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	570	ND	ND	ND	ND	ND	ND	
Acenaphthylene	30	ND	ND	ND	ND	ND	ND	
Anthracene	12,000	ND	ND	ND	ND	ND	ND	
Benzo(a)anthracene	0.9	ND	ND	ND	ND	ND	ND	
Benzo(a)pyrene	0.09	ND	ND	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.9	ND	ND	ND	ND	ND	ND	
Benzo(g,h,i)perylene	160	ND	ND	ND	ND	ND	ND	
Benzo(k)fluoranthene	9	ND	ND	ND	ND	ND	ND	
Chrysene	88	ND	ND	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.09	ND	ND	ND	ND	ND	ND	
Fluoranthene	3,100	ND	ND	ND	ND	ND	ND	
Fluorene	560	ND	ND	ND	ND	ND	ND	
Indeno(1,2,3-c,d)pyrene	0.9	ND	ND	ND	ND	ND	ND	
Napthalene	1.8	ND	ND	ND	ND	ND	0.587	
Phenanthrene	280	ND	ND	ND	ND	ND	ND	
Pyrene	2,300	ND	ND	ND	ND	ND	ND	
Results in mg/kg								
Numbers not bold indicate actual quantities								
BOLD & SHADING -- Exceeds the TAC								
ND - Not Detected								

Electronic Filing: Received, Clerk's Office 07/24/2024

ABP - Gibson City
Site Assessment Data

Early Action - Soil

	Location	17	18	19	20	21
	Date	11/22/2016	11/22/2016	11/22/2016	11/23/2016	11/23/2016
	Depth	7'	13'	13'	7'	7'
Parameter	Tier I CUO					
Benzene	0.03	ND	ND	0.83	0.2	ND
Ethylbenzene	13.0	ND	ND	ND	0.707	ND
Toluene	12.0	ND	ND	ND	1.79	ND
Total Xylenes	5.6	ND	ND	ND	0.39	ND
MTBE	0.32	ND	ND	ND	ND	ND
Acenaphthene	570					
Acenaphthylene	30					
Anthracene	12,000					
Benzo(a)anthracene	0.9					
Benzo(a)pyrene	0.09					
Benzo(b)fluoranthene	0.9					
Benzo(g,h,i)perylene	160					
Benzo(k)fluoranthene	9					
Chrysene	88					
Dibenzo(a,h)anthracene	0.09					
Flouranthene	3,100					
Fluorene	560					
Indeno(1,2,3-c,d)pyrene	0.9					
Napthalene	1.8					
Phenanthrene	280					
Pyrene	2,300					
Results in mg/kg						
Numbers not bold indicate actual quantity:						
BOLD & SHADING -- Exceeds the TAC						
ND -- Not Detected						

Electronic Filing: Received, Clerk's Office 07/24/2024

**ABP - Gibson City
Site Assessment Data**

Stage 1 - Soil

	Location	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-4B
	Date	3/7/2017	3/7/2017	3/7/2017	3/7/2017	3/7/2017	3/7/2017	3/7/2017	3/7/2017
	Depth	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Tier I CUO								
Benzene	0.03	ND	ND	0.0219	ND	0.0159	ND	0.0891	ND
Ethylbenzene	13.0	ND	ND	ND	ND	ND	ND	0.199	ND
Toluene	12.0	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	5.6	ND	ND	0.304	ND	ND	ND	0.784	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND	ND	ND
Results in mg/kg									
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.									
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.									
ND -- Not Detected									

Electronic Filing: Received, Clerk's Office 07/24/2024

**ABP - Gibson City
Site Assessment Data**

Stage 1 - Soil

	Location	SB-1A	SB-1B	SB-2A	SB-2B	SB-3A	SB-3B
	Date	3/7/2017	3/7/2017	3/7/2017	3/7/2017	3/7/2017	3/7/2017
	Depth	2.5'	7.5'	2.5'	7.5'	2.5'	7.5'
Parameter	Tier I CUO						
Benzene	0.03	ND	ND	ND	ND	ND	ND
Ethylbenzene	13.0	ND	ND	ND	ND	ND	ND
Toluene	12.0	ND	ND	ND	ND	ND	ND
Total Xylenes	5.6	ND	ND	ND	ND	ND	ND
MTBE	0.32	ND	ND	ND	ND	ND	ND
Results in mg/kg							
Numbers not bold indicate actual quantities							
BOLD & SHADING -- Exceeds the TAC							
ND -- Not Detected							

**ABP - Gibson City
Site Assessment Data**

Stage 1 Groundwater

Parameter	Location	MW-1	MW-2	MW-3	MW-4	MW-5
	Date	3/9/2017*	3/9/2017*	3/9/2017*	3/9/2017*	3/9/2017*
Class I CUO						
Benzene	0.005	ND	0.009	ND	ND	1.18
Ethylbenzene	0.7	ND	0.064	ND	ND	2.69
Toluene	1.0	ND	0.001	ND	ND	0.038
Total Xylenes	10.0	ND	0.008	ND	ND	0.893
MTBE	0.07	ND	ND	ND	ND	ND
Acenaphthene	0.42	ND	ND	ND	0.0004	0.0002
Acenaphthylene	0.010	ND	ND	ND	0.0001	ND
Anthracene	2.1	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.00013	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.0002	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.00018	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.00076	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.00017	ND	ND	ND	ND	ND
Chrysene	0.0015	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.0003	ND	ND	ND	ND	ND
Fluoranthene	0.28	ND	ND	ND	ND	ND
Fluorene	0.28	ND	ND	ND	0.0002	0.0001
Indeno(1,2,3-cd)pyrene	0.00043	ND	ND	ND	ND	ND
Naphthalene	0.14	ND	0.001	ND	0.349	0.004
Phenanthrene	0.0064	ND	ND	ND	0.0002	0.0001
Pyrene	0.21	ND	ND	ND	ND	ND
Exceeds Tier 1 Class I COUs						
values in mg/L						
*BETX/MTBE Samples Taken 3/9/17 - PNA Samples Taken 10/13/17						

ABP - Gibson City
Site Assessment Data
Stage 3 Soil

	Location	SB-4A	SB-4B				
	Date	8/8/2018	8/8/2018				
	Depth	2.5'	7.5'				
Parameter	Tier I CUO						
Benzene	0.03	ND	0.0792				
Ethylbenzene	13.0	ND	ND				
Toluene	12.0	ND	ND				
Total Xylenes	5.6	ND	ND				
MTBE	0.32	ND	ND				
Results in mg/kg							
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent Soil Clean-up Objective.							
BOLD & SHADING Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective.							
ND -- Not Detected							

Site	ABP Properties, LLC
Sample ID	TACO-1
Date	8/8/2018
FOC	0.0343%
Gravel	8.5%
Sand	81.2%
Silt	7.2%
Clay	0.6%
Bulk Density	1.233 g/cm ³
Percent Moisture	22.00%
Specific Gravity	2.634 g/cm ³

ABP - Gibson City
Site Assessment Data

Corrective Action Soil

	Location	CA-1	CA-2	CA-3
	Date	2/12/2020	2/12/2020	2/12/2020
	Depth	3'	2.5'	2.5'
Parameter	Tier I CUO			
Benzene	0.03	ND	ND	ND
Results in mg/kg				
Numbers not bold indicate actual quantities, but are below the TACO Tier 1 Most Stringent				
BOLD & SHADING -- Exceeds the TACO Tier 1 Most Stringent Soil Clean-up Objective				
ND -- Not Detected				

SUBURBAN LABORATORIES, Inc.



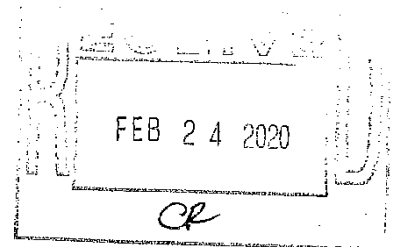
1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

February 24, 2020

Carol Rowe
CWM Company, Inc
701 West South Grand
Springfield, IL 62704

Workorder: 2002824

TEL: (217) 522-8001
FAX: (217) 522-8009
RE: ABP Gibson



Dear Carol Rowe:

Suburban Laboratories, Inc. received 3 sample(s) on 2/17/2020 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon
Project Manager
708-544-3260 ext 212
keith@suburbanlabs.com





Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: CWM Company, Inc

Date: February 24, 2020

Project: ABP Gibson

PO #:

WorkOrder: 2002B24

QC Level:

Temperature of samples upon receipt at SLI: 1 C

Chain of Custody #:

General Comments:

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

Abbreviations:

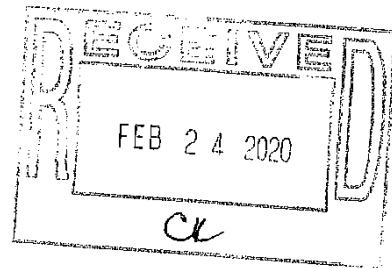
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- FJ: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:





Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc
Project Name: ABP Gibson

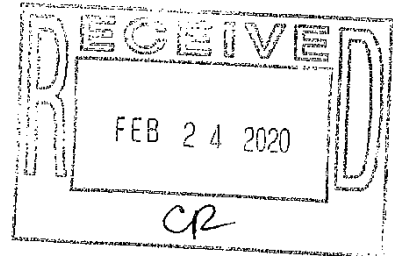
Report Date: February 24, 2020
Workorder: 2002B24

Client Sample ID: CA-1 Matrix: SOIL
Lab ID: 2002B24-001 Date Received: 02/17/2020 11:15 AM Collection Date: 02/12/2020 10:25 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS							
				Method: EPA-8260B-Rev 2, Dec-96		Analyst: RWM	
Benzene	ND	0.0133		mg/Kg-dry	41.83	02/18/2020 5:04 PM	R117024
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	138	80-130	S	%Rec	41.83	02/18/2020 5:04 PM	R117024
SS: Dibromofluoromethane	107	76.1-120		%Rec	41.83	02/18/2020 5:04 PM	R117024
SS: Toluene-d8	111	85-115		%Rec	41.83	02/18/2020 5:04 PM	R117024
PERCENT MOISTURE							
				Method: ASTM-D2216-Rev 2005		Analyst: LT	
Percent Moisture	21	1.0	c	wt%	1	02/20/2020 2:38 PM	R117079

Client Sample ID: CA-2 Matrix: SOIL
Lab ID: 2002B24-002 Date Received: 02/17/2020 11:15 AM Collection Date: 02/12/2020 10:35 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS							
				Method: EPA-8260B-Rev 2, Dec-96		Analyst: RWM	
Benzene	ND	0.0132		mg/Kg-dry	42.05	02/18/2020 5:30 PM	R117024
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	135	80-130	S	%Rec	42.05	02/18/2020 5:30 PM	R117024
SS: Dibromofluoromethane	109	76.1-120		%Rec	42.05	02/18/2020 5:30 PM	R117024
SS: Toluene-d8	99.0	85-115		%Rec	42.05	02/18/2020 5:30 PM	R117024
PERCENT MOISTURE							
				Method: ASTM-D2216-Rev 2005		Analyst: LT	
Percent Moisture	20	1.0	c	wt%	1	02/20/2020 2:38 PM	R117079





Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: CWM Company, Inc
Project Name: ABP Gibson

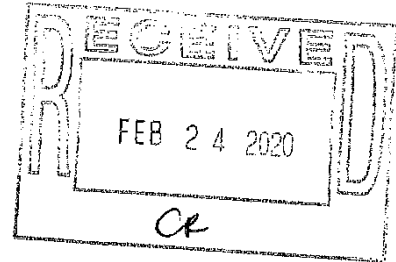
Report Date: February 24, 2020
Workorder: 2002B24

Client Sample ID: CA-3
Lab ID: 2002B24-003

Date Received: 02/17/2020 11:15 AM

Matrix: SOIL
Collection Date: 02/12/2020 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96			Analyst: RWM		
Benzene	ND	0.0148		mg/Kg-dry	46.31	02/18/2020 5:55 PM	R117024
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	103	80-130		%Rec	46.31	02/18/2020 5:55 PM	R117024
SS: Dibromofluoromethane	107	76.1-120		%Rec	46.31	02/18/2020 5:55 PM	R117024
SS: Toluene-d8	98.7	85-115		%Rec	46.31	02/18/2020 5:55 PM	R117024
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005			Analyst: LT		
Percent Moisture	22	1.0	c	wt%	1	02/20/2020 2:38 PM	R117079





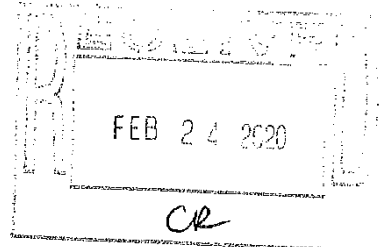
Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: CWM Company, Inc
Project: ABP Gibson

Report Date: February 24, 2020
Lab Order: 2002B24

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2002B24-001A	2/12/2020 10:25:00 AM	64615	CLOSED SYSTEM P&T VOC Prep		2/18/2020
2002B24-002A	2/12/2020 10:35:00 AM	64615	CLOSED SYSTEM P&T VOC Prep		2/18/2020
2002B24-003A	2/12/2020 10:45:00 AM	64615	CLOSED SYSTEM P&T VOC Prep		2/18/2020





Suburban Laboratories, Inc.

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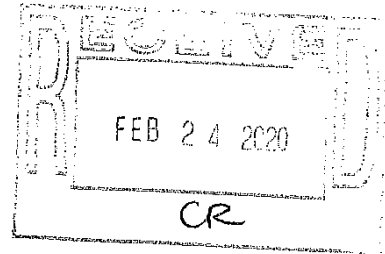
Qualifier Definitions

WO#: 2002B24

Date: 2/24/2020

Qualifiers:

- */x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- C Value is below Minimum Concentration Limit
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- Q Accreditation is not available from Wisconsin
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- T Analyte detected in sample trip blank
- V EPA requires field analysis/filtration. Lab analysis would be considered past hold time.





SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave. Ste. 150 Geneva, IL 60134

Tel. 708.544.3260

CHAIN OF CUSTODY RECORD

login@suburbanlabs.com

www.suburbanlabs.com

Company Name: CWM Company Inc.
 Company Address: 101 W. South Grand Ave.
 City: Springfield State: IL Zip: 62704
 Office: (217) 522-8001 / 8009 Mobile: Fax:
 Email Address: cwm@cwmlabs.com
 Project ID / Location: ABP-Gibson
 Project Manager (Report to): Carol V. Rowe
 Sample Collector(s): MJS / JKK

TURNAROUND TIME REQUESTED
 Normal RUSH*
 * Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.
 Date and Time Report Needed:
 Specify Regulatory Program: None/info Only
 LUST SRP SDWA
 503 Sludge NPDES MWRDGC
 Disposal CCDD OTHER - Specify Below

ANALYSIS & METHOD REQUESTED
 Enter an "X" in box below for request

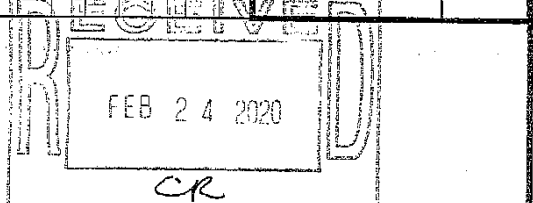
Page 1 of 1
 PO #
 Report Type: Normal Special*
 * Additional charges apply for QC reports and raw data. Specify in comments section
 Shipping Method
 LAB USE ONLY
 Work Order # 2002824
 Temperature of Received Samples: 1 °C
 Received within 24 hours of collection? No Yes

	SAMPLE IDENTIFICATION (Use 1 line per container type)		COLLECTION		MATRIX	GRAB/ COMP.	CONTAINERS		PRESERVATIVE						
	DATE	TIME	DATE	TIME			Qty	SIZE & TYPE							
1	CA-1	2-12-20	10:25	Soil	G	7	40ml/4oz	Meth/NA			X				
2	CA-2		10:35								X				
3	CA-3		10:45								X				
4															
5															
6															
7															
8															
9															
10															
11															
12															

Lab Comment: _____ LAB #: 1AB
 _____ LAB #: 3AB

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Uter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:



1. Relinquished By: <u>[Signature]</u> Date: <u>2-17-20</u>	2. Relinquished By: <u>[Signature]</u> Date: <u>2-17-20</u>	3. Relinquished By: _____ Date: _____	4. Relinquished By: _____ Date: _____
Received By: <u>[Signature]</u> Time: <u>8:03</u>	Received By: <u>[Signature]</u> Time: <u>11:5</u>	Received By: _____ Time: _____	Received By: _____ Time: _____

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES. Rev 2/17

Electronic Filing: Received, Clerk's Office 07/24/2024

000153



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 – 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

A. Site Identification

IEMA Incident # (6- or 8-digit): 20160917 IEPA LPC# (10-digit): 0530100002
Site Name: ABP Gibson City
Site Address (Not a P.O. Box): 120 West 1st Street
City: Gibson City County: Ford ZIP Code: 60936

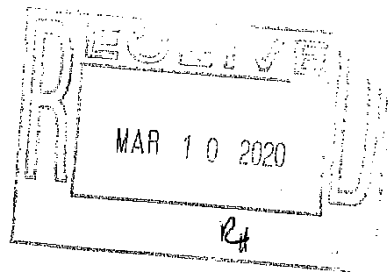
Leaking UST Technical File

B. Sample Collector

I certify that:

1. Appropriate sampling equipment/methods were utilized to obtain representative samples.
2. Chain-of-custody procedures were followed in the field.
3. Sample integrity was maintained by proper preservation.
4. All samples were properly labeled.

JJK
(Initial)
JJK
(Initial)
JJK
(Initial)
JJK
(Initial)



C. Laboratory Representative

I certify that:

1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms
2. Sample integrity was maintained by proper preservation.
3. All samples were properly labeled.
4. Quality assurance/quality control procedures were established and carried out.
5. Sample holding times were not exceeded.

258
(Initial)
258
(Initial)
258
(Initial)
258
(Initial)
258
(Initial)

- 6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.
- 7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

JS
(Initial)
JS
(Initial)

D. Signatures

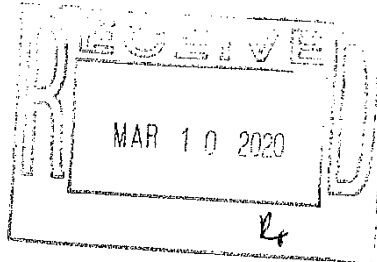
I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name John Kveton
Title Scientist
Company CWM Company, Inc.
Address 701 South Grand Ave. West
City Springfield
State IL
Zip Code 62704
Phone 217-522-8001
Signature [Signature]
Date 2-12-20

Laboratory Representative

Name Keith Simon
Title Project Manager
Company Suburban Laboratories, Inc.
Address 1950 S. Batavia Ave Ste 150
City Geneva
State IL
Zip Code 60134
Phone 708-544-3260
Signature [Signature]
Date 3/4/20





<http://www.teklabinc.com/>

Client Project: ABP-Gibson City

Work Order: 20020904

Report to: CW3M Co. Inc.
 Attn: Carol Rowe
 701 W. South Grand Ave.
 Springfield
 IL 62704

Invoice to: CW3M Company Inc.
 Attn: Accounts Payable
 701 W. South Grand Ave.
 Springfield
 IL 62704

Date Received: 2/17/2020 8:25:00 AM Date Due: Standard TAT QCLevel: LVL2
 Project Manager: Marvin L. Darling Tel: (618)344-1004 ex 41 Email: mdarling@teklabinc.com

NOTICE Teklab will proceed with analysis as reported below unless otherwise notified. Call your Project Manager with questions.

Shipping container in good condition?	Yes
Ice present?	No
Chain of custody present?	Yes
Chain of custody signed when relinquished?	Yes
Chain of custody agrees with sample labels?	Yes
Samples in proper container/bottle?	Yes
Sample container intact?	Yes
Sufficient sample volume for indicated tests?	Yes
All samples received within holding time?	Yes
Container/Temp Blank temperature compliant?	Yes n/a Celcius

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Field parameters measured in Lab?	N/A
Water - TOX containers have zero headspace?	No TOX containers
Water - VOA vials have zero headspace?	No VOA Vials submitted
Water - pH acceptable upon receipt?	N/A
NPDES/CWA TCN interference checked/treated in field?	N/A

Comments

Sample was transferred to Collinsville Air Lab on 2/18/20 at 0930. - ehurley - 2/18/2020 10:37:43 AM

Clients sample id, canister id and clients final pressure readings followed by readings taken upon arrival at the laboratory. - HRiley -
 2/18/2020 1:22:17 PM
 SV-1 5094 -10/-9

20020904-001	SV-1	Collected: 2/17/2020 10:45:00 AM	AIR CANISTER		
Test		Hold	MS/MSD	Rush	Sub
TO-15, Air		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AIR SAMPLING FIELD FORM AND CHAIN OF CUSTODY

Client Name: CWM Company, Inc.
 Address: 701 W. South Grand Ave
 Phone: (317) 522-
 Email: CWM@CWMCompany.com
 Project ID: ABP-Gibson City
 Project Manager: Carol L. Rowe
 Sampler: MJS/JKJ
 PO Number:

Results Requested (check one) <input checked="" type="checkbox"/> Standard (7-10 day) <input type="checkbox"/> 1 Day (200% surcharge) <input type="checkbox"/> 2-3 Day (100% surcharge) <input type="checkbox"/> 4-5 Day (50% surcharge)	Sample Type (check one) <input type="checkbox"/> Ambient Air <input checked="" type="checkbox"/> Soil Gas/Vapor <input type="checkbox"/> Indoor Air <input type="checkbox"/> Landfill Gas <input type="checkbox"/> Indoor Sub-Slab <input type="checkbox"/> Other (specify) <input type="checkbox"/> Stack
---	--

Lab Use Only: Sample pick up Y N Samples on: Ice/Blue No Ice Temp. °C
 Comments:

Lab Use Only	Laboratory ID	Sample Identification	Canister Number	Controller Number	Sample Start Parameters		Sample Stop Parameters		Requested Analysis (list metals/other below in comments)									
					Vacuum		Vacuum		TO-15 Lists (select) Standard Extended	TO-15 select BLEX MBTE Naphthalene (isopropanol) TPH-GRO	TO-13	TO-4	PM10/ TSP	Metals	Other			
					Date	Time	(in. Hg)	Date								Time	(in. Hg)	
		SV-1	5094	40	2-12-20	10:10	29	2-12-20	10:45	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

Are these samples known to be involved in litigation? If yes, a level IV data package will be generated and a surcharge will apply. Yes No
 Are these samples known to be hazardous? Yes No
 Special QC Requirements/Special Instructions/Comments:

Shipping Company and Tracking Number:

Relinquished By: <u>[Signature]</u>	Date/Time: <u>2/14/20 13:43</u>	Received By: <u>[Signature]</u>	Date/Time: <u>2/14/20 13:43</u>
<u>[Signature]</u>	<u>2/17/20 8:25</u>	<u>[Signature]</u>	<u>2/17/20 08:25</u>
<u>[Signature]</u>	<u>2/18/20 09:30</u>	<u>[Signature]</u>	<u>2/18/20 09:30</u>

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

White & Yellow Copy - Laboratory Pink Copy - Sampler

000157

Electronic Filing: Received, Clerk's Office 07/24/2024

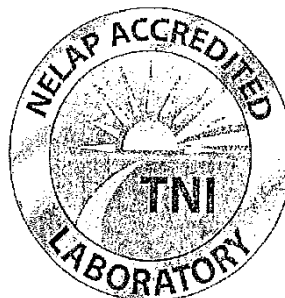
2/17/20



<http://www.teklabinc.com/>

February 24, 2020

Carol Rowe
CW3M Co. Inc.
701 W. South Grand Ave.
Springfield, IL 62704
TEL: (217) 522-8001
FAX: (217) 522-8009



WorkOrder: 20020904

RE: ABP-Gibson City

Dear Carol Rowe:

TEKLAB, INC received 1 sample on 2/17/2020 8:25:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in cursive script that reads "Marvin L. Darling II".

Marvin L. Darling
Project Manager
(618)344-1004 ex 41
mdarling@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

This reporting package includes the following:

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Chain of Custody	Appended



Definitions

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
- DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

Cooler Receipt Temp: n/a °C

TO15 analysis was performed at the North Bluff Road facility in Collinsville Illinois, Agency Interest No. 166578.

Locations

Collinsville
Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield
Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City
Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air
Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago
Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	3/3/2020	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2020	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2020	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2020	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2020	Collinsville
Arkansas	ADEQ	88-0966		3/14/2021	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		1/31/2020	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville
Tennessee	TDEC	04905		3/3/2020	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.
 Client Project: ABP-Gibson City
 Lab ID: 20020904-001
 Matrix: AIR CANISTER

Work Order: 20020904
 Report Date: 24-Feb-2020

Client Sample ID: SV-1

Collection Date: 02/12/2020 10:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS								
1,1,1-Trichloroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,1,2,2-Tetrachloroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,1,2-Trichloroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,1,2-Trichlorotrifluoroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,1-Dichloroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,1-Dichloroethene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,2,4-Trichlorobenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,2,4-Trimethylbenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,2-Dibromoethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,2-Dichlorobenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,2-Dichloroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,2-Dichloropropane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,3,5-Trimethylbenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,3-Butadiene	NELAP	20000		ND	ppbv	20000	02/20/2020 18:49	162440
1,3-Dichlorobenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
1,4-Dichlorobenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
2-Butanone	NELAP	20000		ND	ppbv	20000	02/20/2020 18:49	162440
2-Hexanone	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
4-Methyl-2-pentanone	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Acetone	NELAP	40000		ND	ppbv	20000	02/20/2020 18:49	162440
Benzene	NELAP	10000		50600	ppbv	20000	02/20/2020 18:49	162440
Bromodichloromethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Bromoform	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Bromomethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Carbon disulfide	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Carbon tetrachloride	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Chlorobenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Chloroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Chloroform	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Chloromethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
cis-1,2-Dichloroethene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
cis-1,3-dichloropropene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Cyclohexane	NELAP	10000		240000	ppbv	20000	02/20/2020 18:49	162440
Dibromochloromethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Dichlorodifluoromethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Dichlorotetrafluoroethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Ethyl acetate	NELAP	20000		ND	ppbv	20000	02/20/2020 18:49	162440
Ethylbenzene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Hexachlorobutadiene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Isopropanol	NELAP	80000		ND	ppbv	20000	02/20/2020 18:49	162440
m,p-Xylene	NELAP	20000		ND	ppbv	20000	02/20/2020 18:49	162440
Methyl tert-butyl ether	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Methylene chloride	NELAP	20000		ND	ppbv	20000	02/20/2020 18:49	162440
n-Heptane	NELAP	10000		176000	ppbv	20000	02/20/2020 18:49	162440
n-Hexane	NELAP	500000		2510000	ppbv	1E+06	02/22/2020 13:38	162484
o-Xylene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
p-Ethyltoluene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440



Laboratory Results

<http://www.teklabinc.com/>

Client: CW3M Co, Inc.
 Client Project: ABP-Gibson City
 Lab ID: 20020904-001
 Matrix: AIR CANISTER

Work Order: 20020904
 Report Date: 24-Feb-2020

Client Sample ID: SV-1

Collection Date: 02/12/2020 10:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS								
Propylene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Styrene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Tetrachloroethene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Tetrahydrofuran	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Toluene	NELAP	10000		87200	ppbv	20000	02/20/2020 18:49	162440
trans-1,2-Dichloroethene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
trans-1,3-dichloropropene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Trichloroethene	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Trichlorofluoromethane	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Vinyl acetate	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Vinyl chloride	NELAP	10000		ND	ppbv	20000	02/20/2020 18:49	162440
Xylenes, Total	NELAP	30000		ND	ppbv	20000	02/20/2020 18:49	162440
Surr: 4-Bromofluorobenzene	*	46.9-145		95.6	%REC	20000	02/20/2020 18:49	162440

Elevated reporting limit due to high levels of target and/or non-target analytes.



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162400 SampType: MBLK Units ppbv
 SampID: MBLK-AG200219-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		ND						02/19/2020
1,1,2,2-Tetrachloroethane	0.50		ND						02/19/2020
1,1,2-Trichloroethane	0.50		ND						02/19/2020
1,1,2-Trichlorotrifluoroethane	0.50		ND						02/19/2020
1,1-Dichloroethane	0.50		ND						02/19/2020
1,1-Dichloroethene	0.50		ND						02/19/2020
1,2,4-Trichlorobenzene	0.50		ND						02/19/2020
1,2,4-Trimethylbenzene	0.50		ND						02/19/2020
1,2-Dibromoethane	0.50		ND						02/19/2020
1,2-Dichlorobenzene	0.50		ND						02/19/2020
1,2-Dichloroethane	0.50		ND						02/19/2020
1,2-Dichloropropane	0.50		ND						02/19/2020
1,3,5-Trimethylbenzene	0.50		ND						02/19/2020
1,3-Butadiene	1.00		ND						02/19/2020
1,3-Dichlorobenzene	0.50		ND						02/19/2020
1,4-Dichlorobenzene	0.50		ND						02/19/2020
2-Butanone	1.00		ND						02/19/2020
2-Hexanone	0.50		ND						02/19/2020
4-Methyl-2-pentanone	0.50		ND						02/19/2020
Acetone	2.00		ND						02/19/2020
Benzene	0.50		ND						02/19/2020
Bromodichloromethane	0.50		ND						02/19/2020
Bromoform	0.50		ND						02/19/2020
Bromomethane	0.50		ND						02/19/2020
Carbon disulfide	0.50		ND						02/19/2020
Carbon tetrachloride	0.50		ND						02/19/2020
Chlorobenzene	0.50		ND						02/19/2020
Chloroethane	0.50		ND						02/19/2020
Chloroform	0.50		ND						02/19/2020
Chloromethane	0.50		ND						02/19/2020
cis-1,2-Dichloroethene	0.50		ND						02/19/2020
cis-1,3-dichloropropene	0.50		ND						02/19/2020
Cyclohexane	0.50		ND						02/19/2020
Dibromochloromethane	0.50		ND						02/19/2020
Dichlorodifluoromethane	0.50		ND						02/19/2020
Dichlorotetrafluoroethane	0.50		ND						02/19/2020
Ethyl acetate	1.00		ND						02/19/2020
Ethylbenzene	0.50		ND						02/19/2020
Hexachlorobutadiene	0.50		ND						02/19/2020
Isopropanol	3.00		ND						02/19/2020
m,p-Xylene	1.00		ND						02/19/2020
Methyl tert-butyl ether	0.50		ND						02/19/2020
Methylene chloride	1.00		ND						02/19/2020
n-Heptane	0.50		ND						02/19/2020
n-Hexane	0.50		ND						02/19/2020
o-Xylene	0.50		ND						02/19/2020
p-Ethyltoluene	0.50		ND						02/19/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.
 Client Project: ABP-Gibson City

Work Order: 20020904
 Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162400 SampType: MBLK Units ppbv
 SampID: MBLK-AG200219-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		ND						02/19/2020
Styrene	0.50		ND						02/19/2020
Tetrachloroethene	0.50		ND						02/19/2020
Tetrahydrofuran	0.50		ND						02/19/2020
Toluene	0.50		ND						02/19/2020
trans-1,2-Dichloroethene	0.50		ND						02/19/2020
trans-1,3-dichloropropene	0.50		ND						02/19/2020
Trichloroethene	0.50		ND						02/19/2020
Trichlorofluoromethane	0.50		ND						02/19/2020
Vinyl acetate	0.50		ND						02/19/2020
Vinyl chloride	0.50		ND						02/19/2020
Xylenes, Total	1.50		ND						02/19/2020
Surr: 4-Bromofluorobenzene			9.40	10.00		94.0	46.9	145	02/19/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162400 SampType: LCS Units ppbv
SampID: LCS-AG200219-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		10.6	10.70	0	99.3	51.4	141	02/19/2020
1,1,2,2-Tetrachloroethane	0.50		11.0	10.10	0	109.2	57.6	163	02/19/2020
1,1,2-Trichloroethane	0.50		10.8	10.50	0	103.3	60.1	159	02/19/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.3	10.80	0	95.4	56	145	02/19/2020
1,1-Dichloroethane	0.50		9.88	9.900	0	99.8	51.6	150	02/19/2020
1,1-Dichloroethene	0.50		10.8	10.70	0	100.8	48.5	139	02/19/2020
1,2,4-Trichlorobenzene	0.50		7.44	9.500	0	78.3	33	262	02/19/2020
1,2,4-Trimethylbenzene	0.50		10.9	10.00	0	109.4	62.7	174	02/19/2020
1,2-Dibromoethane	0.50		11.2	10.40	0	107.4	61.6	160	02/19/2020
1,2-Dichlorobenzene	0.50		10.6	9.800	0	108.0	59.8	169	02/19/2020
1,2-Dichloroethane	0.50		10.3	10.20	0	101.4	52	149	02/19/2020
1,2-Dichloropropane	0.50		10.2	10.30	0	99.2	53.2	155	02/19/2020
1,3,5-Trimethylbenzene	0.50		10.9	10.10	0	107.7	64.6	176	02/19/2020
1,3-Butadiene	1.00		10.5	10.30	0	102.1	58.6	131	02/19/2020
1,3-Dichlorobenzene	0.50		10.6	10.00	0	105.9	59.7	167	02/19/2020
1,4-Dichlorobenzene	0.50		10.4	9.600	0	107.8	58.8	165	02/19/2020
2-Butanone	1.00		10.9	10.60	0	102.9	41.7	159	02/19/2020
2-Hexanone	0.50		12.8	10.30	0	124.3	49	159	02/19/2020
4-Methyl-2-pentanone	0.50		10.7	10.20	0	105.2	42.4	152	02/19/2020
Acetone	2.00		10.8	10.50	0	102.6	42.1	163	02/19/2020
Benzene	0.50		10.2	10.50	0	97.6	83	125	02/19/2020
Bromodichloromethane	0.50		10.5	10.50	0	99.9	54.1	144	02/19/2020
Bromoform	0.50		11.1	10.50	0	105.3	57.6	154	02/19/2020
Bromomethane	0.50		9.73	10.30	0	94.5	48.1	147	02/19/2020
Carbon disulfide	0.50		9.98	10.40	0	96.0	48.5	133	02/19/2020
Carbon tetrachloride	0.50		10.2	10.20	0	100.2	54.7	142	02/19/2020
Chlorobenzene	0.50		11.1	10.40	0	106.7	62.1	163	02/19/2020
Chloroethane	0.50		10.3	10.30	0	100.1	47.3	146	02/19/2020
Chloroform	0.50		10.4	10.60	0	98.5	52.9	143	02/19/2020
Chloromethane	0.50		9.67	10.00	0	96.7	40.2	143	02/19/2020
cis-1,2-Dichloroethene	0.50		10.7	10.40	0	102.5	56.6	145	02/19/2020
cis-1,3-dichloropropene	0.50		11.7	10.40	0	112.1	57.2	162	02/19/2020
Cyclohexane	0.50		11.0	10.70	0	102.8	49.7	146	02/19/2020
Dibromochloromethane	0.50		10.7	10.40	0	102.8	58.3	152	02/19/2020
Dichlorodifluoromethane	0.50		9.37	9.800	0	95.6	55.4	149	02/19/2020
Dichlorotetrafluoroethane	0.50		9.39	9.800	0	95.8	53.7	155	02/19/2020
Ethyl acetate	1.00		11.1	10.50	0	105.6	49.6	163	02/19/2020
Ethylbenzene	0.50		11.3	10.40	0	108.6	85.9	143	02/19/2020
Hexachlorobutadiene	0.50		6.75	10.10	0	66.8	46	208	02/19/2020
Isopropanol	3.00		13.7	10.90	0	125.3	32.8	147	02/19/2020
m,p-Xylene	1.00		21.7	20.40	0	106.5	88.5	141	02/19/2020
Methyl tert-butyl ether	0.50		11.0	10.50	0	105.1	52.1	152	02/19/2020
Methylene chloride	1.00		10.3	10.40	0	99.3	45.6	147	02/19/2020
n-Heptane	0.50		10.8	10.50	0	103.0	43.4	149	02/19/2020
n-Hexane	0.50		10.7	10.50	0	101.5	48.1	146	02/19/2020
o-Xylene	0.50		10.8	10.10	0	106.6	88.7	142	02/19/2020
p-Ethyltoluene	0.50		10.8	10.40	0	103.7	55.1	146	02/19/2020



Quality Control Results

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Client: CW3M Co. Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162400 SampType: LCS Units ppbv
SampID: LCS-AG200219-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		9.82	10.00	0	98.2	40.4	143	02/19/2020
Styrene	0.50		11.1	10.10	0	110.0	61.4	165	02/19/2020
Tetrachloroethene	0.50		10.5	10.30	0	102.0	63.3	160	02/19/2020
Tetrahydrofuran	0.50		9.88	9.900	0	99.8	42.9	166	02/19/2020
Toluene	0.50		10.4	10.30	0	100.8	87.4	133	02/19/2020
trans-1,2-Dichloroethene	0.50		10.3	10.20	0	101.4	45.7	129	02/19/2020
trans-1,3-dichloropropene	0.50		9.94	9.100	0	109.2	60	140	02/19/2020
Trichloroethene	0.50		10.7	10.90	0	98.0	59.1	148	02/19/2020
Trichlorofluoromethane	0.50		9.07	9.700	0	93.5	59.9	166	02/19/2020
Vinyl acetate	0.50		11.6	11.00	0	105.0	38.4	132	02/19/2020
Vinyl chloride	0.50		10.5	10.70	0	98.4	44.7	146	02/19/2020
Xylenes, Total	1.50		32.5	30.50	0	106.6	88.6	141	02/19/2020
Surr: 4-Bromofluorobenzene			10.2	10.00		102.2	46.9	145	02/19/2020



Quality Control Results

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Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 152400 SampType: LCSD Units ppbv

RPD Limit 30

SampleID: LCSD-AG200219-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1,1-Trichloroethane	0.50		10.8	10.70	0	101.2	10.63	1.86	02/19/2020
1,1,1,2-Tetrachloroethane	0.50		11.1	10.10	0	109.8	11.03	0.54	02/19/2020
1,1,2-Trichloroethane	0.50		11.0	10.50	0	105.0	10.85	1.55	02/19/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.4	10.80	0	96.1	10.30	0.77	02/19/2020
1,1-Dichloroethane	0.50		9.98	9.900	0	100.8	9.880	1.01	02/19/2020
1,1-Dichloroethene	0.50		10.9	10.70	0	101.5	10.79	0.65	02/19/2020
1,2,4-Trichlorobenzene	0.50		7.50	9.500	0	78.9	7.440	0.80	02/19/2020
1,2,4-Trimethylbenzene	0.50		11.0	10.00	0	110.3	10.94	0.82	02/19/2020
1,2-Dibromoethane	0.50		11.3	10.40	0	108.4	11.17	0.89	02/19/2020
1,2-Dichlorobenzene	0.50		10.7	9.800	0	109.0	10.58	0.94	02/19/2020
1,2-Dichloroethane	0.50		10.4	10.20	0	102.1	10.34	0.67	02/19/2020
1,2-Dichloropropane	0.50		10.5	10.30	0	101.6	10.22	2.32	02/19/2020
1,3,5-Trimethylbenzene	0.50		10.9	10.10	0	108.1	10.88	0.37	02/19/2020
1,3-Butadiene	1.00		10.6	10.30	0	102.9	10.52	0.76	02/19/2020
1,3-Dichlorobenzene	0.50		10.6	10.00	0	106.2	10.59	0.28	02/19/2020
1,4-Dichlorobenzene	0.50		10.4	9.600	0	108.6	10.35	0.77	02/19/2020
2-Butanone	1.00		10.9	10.60	0	103.0	10.91	0.09	02/19/2020
2-Hexanone	0.50		13.0	10.30	0	125.7	12.80	1.17	02/19/2020
4-Methyl-2-pentanone	0.50		10.9	10.20	0	106.5	10.73	1.20	02/19/2020
Acetone	2.00		11.0	10.50	0	104.6	10.77	1.93	02/19/2020
Benzene	0.50		10.4	10.50	0	99.0	10.25	1.45	02/19/2020
Bromodichloromethane	0.50		10.5	10.50	0	100.7	10.49	0.76	02/19/2020
Bromoform	0.50		11.1	10.50	0	106.0	11.06	0.63	02/19/2020
Bromomethane	0.50		10.4	10.30	0	101.4	9.730	7.04	02/19/2020
Carbon disulfide	0.50		10.1	10.40	0	97.2	9.980	1.29	02/19/2020
Carbon tetrachloride	0.50		10.3	10.20	0	101.0	10.22	0.78	02/19/2020
Chlorobenzene	0.50		11.2	10.40	0	108.1	11.10	1.25	02/19/2020
Chloroethane	0.50		10.6	10.30	0	102.4	10.31	2.30	02/19/2020
Chloroform	0.50		10.5	10.60	0	99.2	10.44	0.76	02/19/2020
Chloromethane	0.50		9.85	10.00	0	98.5	9.670	1.84	02/19/2020
cis-1,2-Dichloroethene	0.50		10.7	10.40	0	103.1	10.66	0.56	02/19/2020
cis-1,3-dichloropropene	0.50		11.9	10.40	0	114.2	11.66	1.87	02/19/2020
Cyclohexane	0.50		11.2	10.70	0	104.4	11.00	1.53	02/19/2020
Dibromochloromethane	0.50		10.8	10.40	0	104.1	10.69	1.30	02/19/2020
Dichlorodifluoromethane	0.50		9.48	9.800	0	96.7	9.370	1.17	02/19/2020
Dichlorotetrafluoroethane	0.50		9.48	9.800	0	96.7	9.390	0.95	02/19/2020
Ethyl acetate	1.00		11.1	10.50	0	105.4	11.09	0.18	02/19/2020
Ethylbenzene	0.50		11.4	10.40	0	109.6	11.29	0.97	02/19/2020
Hexachlorobutadiene	0.50		6.71	10.10	0	66.4	6.750	0.59	02/19/2020
Isopropanol	3.00		13.9	10.90	0	127.6	13.66	1.81	02/19/2020
m,p-Xylene	1.00		21.9	20.40	0	107.5	21.73	0.92	02/19/2020
Methyl tert-butyl ether	0.50		11.2	10.50	0	106.6	11.04	1.35	02/19/2020
Methylene chloride	1.00		10.4	10.40	0	99.5	10.33	0.19	02/19/2020
n-Heptane	0.50		10.9	10.50	0	104.2	10.82	1.10	02/19/2020
n-Hexane	0.50		10.7	10.50	0	101.8	10.66	0.28	02/19/2020
o-Xylene	0.50		10.9	10.10	0	107.8	10.77	1.11	02/19/2020
p-Ethyltoluene	0.50		10.9	10.40	0	104.9	10.78	1.20	02/19/2020



Quality Control Results

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Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162400 SampType: LCSD Units ppbv
 SampID: LCSD-AG200219-1

RPD Limit 30

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Propylene	0.50		10.1	10.00	0	100.9	9.820	2.71	02/19/2020
Styrene	0.50		11.2	10.10	0	111.2	11.11	1.07	02/19/2020
Tetrachloroethene	0.50		10.7	10.30	0	103.6	10.51	1.51	02/19/2020
Tetrahydrofuran	0.50		9.94	9.900	0	100.4	9.880	0.61	02/19/2020
Toluene	0.50		10.5	10.30	0	101.7	10.38	0.86	02/19/2020
trans-1,2-Dichloroethene	0.50		10.4	10.20	0	102.2	10.34	0.77	02/19/2020
trans-1,3-dichloropropene	0.50		10.1	9.100	0	111.2	9.940	1.79	02/19/2020
Trichloroethene	0.50		10.8	10.90	0	99.0	10.68	1.02	02/19/2020
Trichlorofluoromethane	0.50		9.09	9.700	0	93.7	9.070	0.22	02/19/2020
Vinyl acetate	0.50		11.5	11.00	0	104.6	11.55	-0.35	02/19/2020
Vinyl chloride	0.50		10.7	10.70	0	99.6	10.53	1.23	02/19/2020
Xylenes, Total	1.50		32.8	30.50	0	107.6	32.50	0.98	02/19/2020
Surr: 4-Bromofluorobenzene			10.2	10.00		101.9			02/19/2020



Quality Control Results

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Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162440 SampType: MBLK Units ppbv
 SampID: MBLK-AG200220-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		ND						02/20/2020
1,1,2,2-Tetrachloroethane	0.50		ND						02/20/2020
1,1,2-Trichloroethane	0.50		ND						02/20/2020
1,1,2-Trichlorotrifluoroethane	0.50		ND						02/20/2020
1,1-Dichloroethane	0.50		ND						02/20/2020
1,1-Dichloroethene	0.50		ND						02/20/2020
1,2,4-Trichlorobenzene	0.50		ND						02/20/2020
1,2,4-Trimethylbenzene	0.50		ND						02/20/2020
1,2-Dibromoethane	0.50		ND						02/20/2020
1,2-Dichlorobenzene	0.50		ND						02/20/2020
1,2-Dichloroethane	0.50		ND						02/20/2020
1,2-Dichloropropane	0.50		ND						02/20/2020
1,3,5-Trimethylbenzene	0.50		ND						02/20/2020
1,3-Butadiene	1.00		ND						02/20/2020
1,3-Dichlorobenzene	0.50		ND						02/20/2020
1,4-Dichlorobenzene	0.50		ND						02/20/2020
2-Butanone	1.00		ND						02/20/2020
2-Hexanone	0.50		ND						02/20/2020
4-Methyl-2-pentanone	0.50		ND						02/20/2020
Acetone	2.00		ND						02/20/2020
Benzene	0.50		ND						02/20/2020
Bromodichloromethane	0.50		ND						02/20/2020
Bromoform	0.50		ND						02/20/2020
Bromomethane	0.50		ND						02/20/2020
Carbon disulfide	0.50		ND						02/20/2020
Carbon tetrachloride	0.50		ND						02/20/2020
Chlorobenzene	0.50		ND						02/20/2020
Chloroethane	0.50		ND						02/20/2020
Chloroform	0.50		ND						02/20/2020
Chloromethane	0.50		ND						02/20/2020
cis-1,2-Dichloroethene	0.50		ND						02/20/2020
cis-1,3-dichloropropene	0.50		ND						02/20/2020
Cyclohexane	0.50		ND						02/20/2020
Dibromochloromethane	0.50		ND						02/20/2020
Dichlorodifluoromethane	0.50		ND						02/20/2020
Dichlorotetrafluoroethane	0.50		ND						02/20/2020
Ethyl acetate	1.00		ND						02/20/2020
Ethylbenzene	0.50		ND						02/20/2020
Hexachlorobutadiene	0.50		ND						02/20/2020
Isopropanol	3.00		ND						02/20/2020
m,p-Xylene	1.00		ND						02/20/2020
Methyl tert-butyl ether	0.50		ND						02/20/2020
Methylene chloride	1.00		ND						02/20/2020
n-Heptane	0.50		ND						02/20/2020
n-Hexane	0.50		ND						02/20/2020
o-Xylene	0.50		ND						02/20/2020
p-Ethyltoluene	0.50		ND						02/20/2020



Quality Control Results

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Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162440 SampType: MBLK Units ppbv
 SampID: MBLK-AG200220-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		ND						02/20/2020
Styrene	0.50		ND						02/20/2020
Tetrachloroethene	0.50		ND						02/20/2020
Tetrahydrofuran	0.50		ND						02/20/2020
Toluene	0.50		ND						02/20/2020
trans-1,2-Dichloroethene	0.50		ND						02/20/2020
trans-1,3-dichloropropene	0.50		ND						02/20/2020
Trichloroethene	0.50		ND						02/20/2020
Trichlorofluoromethane	0.50		ND						02/20/2020
Vinyl acetate	0.50		ND						02/20/2020
Vinyl chloride	0.50		ND						02/20/2020
Xylenes, Total	1.50		ND						02/20/2020
Surr: 4-Bromofluorobenzene			9.46	10.00		94.6	46.9	145	02/20/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

 Batch 162440 SampType: LCS Units ppbv
 SampID: LCS-AG200220-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		11.0	10.70	0	102.9	51.4	141	02/20/2020
1,1,2,2-Tetrachloroethane	0.50		10.8	10.10	0	107.0	57.6	163	02/20/2020
1,1,2-Trichloroethane	0.50		10.8	10.50	0	103.0	60.1	159	02/20/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.4	10.80	0	96.2	56	145	02/20/2020
1,1-Dichloroethane	0.50		9.91	9.900	0	100.1	51.6	150	02/20/2020
1,1-Dichloroethene	0.50		10.8	10.70	0	101.3	48.5	139	02/20/2020
1,2,4-Trichlorobenzene	0.50		7.71	9.500	0	81.2	33	262	02/20/2020
1,2,4-Trimethylbenzene	0.50		11.2	10.00	0	111.5	62.7	174	02/20/2020
1,2-Dibromoethane	0.50		11.4	10.40	0	109.3	61.6	160	02/20/2020
1,2-Dichlorobenzene	0.50		10.9	9.800	0	111.0	59.8	169	02/20/2020
1,2-Dichloroethane	0.50		10.6	10.20	0	103.8	52	149	02/20/2020
1,2-Dichloropropane	0.50		10.1	10.30	0	98.0	53.2	155	02/20/2020
1,3,5-Trimethylbenzene	0.50		11.1	10.10	0	109.9	64.6	176	02/20/2020
1,3-Butadiene	1.00		10.1	10.30	0	98.0	58.6	131	02/20/2020
1,3-Dichlorobenzene	0.50		10.9	10.00	0	109.0	59.7	167	02/20/2020
1,4-Dichlorobenzene	0.50		10.5	9.600	0	109.6	58.8	165	02/20/2020
2-Butanone	1.00		10.6	10.60	0	99.5	41.7	159	02/20/2020
2-Hexanone	0.50		12.6	10.30	0	121.8	49	159	02/20/2020
4-Methyl-2-pentanone	0.50		10.6	10.20	0	103.7	42.4	152	02/20/2020
Acetone	2.00		10.8	10.50	0	102.5	42.1	163	02/20/2020
Benzene	0.50		10.2	10.50	0	97.2	83	125	02/20/2020
Bromodichloromethane	0.50		10.5	10.50	0	100.1	54.1	144	02/20/2020
Bromoform	0.50		11.2	10.50	0	107.1	57.6	154	02/20/2020
Bromomethane	0.50		9.91	10.30	0	96.2	48.1	147	02/20/2020
Carbon disulfide	0.50		9.78	10.40	0	94.0	48.5	133	02/20/2020
Carbon tetrachloride	0.50		10.6	10.20	0	103.5	54.7	142	02/20/2020
Chlorobenzene	0.50		11.4	10.40	0	109.2	62.1	163	02/20/2020
Chloroethane	0.50		10.0	10.30	0	97.4	47.3	146	02/20/2020
Chloroform	0.50		10.5	10.60	0	99.1	52.9	143	02/20/2020
Chloromethane	0.50		8.99	10.00	0	89.9	40.2	143	02/20/2020
cis-1,2-Dichloroethene	0.50		10.5	10.40	0	101.3	56.6	145	02/20/2020
cis-1,3-dichloropropene	0.50		11.8	10.40	0	113.0	57.2	162	02/20/2020
Cyclohexane	0.50		10.7	10.70	0	100.0	49.7	146	02/20/2020
Dibromochloromethane	0.50		10.9	10.40	0	104.6	58.3	152	02/20/2020
Dichlorodifluoromethane	0.50		9.51	9.800	0	97.0	55.4	149	02/20/2020
Dichlorotetrafluoroethane	0.50		9.27	9.800	0	94.6	53.7	155	02/20/2020
Ethyl acetate	1.00		10.5	10.50	0	99.9	49.6	163	02/20/2020
Ethylbenzene	0.50		11.4	10.40	0	109.3	85.9	143	02/20/2020
Hexachlorobutadiene	0.50		7.14	10.10	0	70.7	46	208	02/20/2020
Isopropanol	3.00		13.7	10.90	0	126.0	32.8	147	02/20/2020
m,p-Xylene	1.00		22.1	20.40	0	108.4	88.5	141	02/20/2020
Methyl tert-butyl ether	0.50		11.3	10.50	0	108.0	52.1	152	02/20/2020
Methylene chloride	1.00		10.1	10.40	0	97.0	45.6	147	02/20/2020
n-Heptane	0.50		10.5	10.50	0	99.6	43.4	149	02/20/2020
n-Hexane	0.50		10.4	10.50	0	98.6	48.1	146	02/20/2020
o-Xylene	0.50		10.9	10.10	0	107.8	88.7	142	02/20/2020
p-Ethyltoluene	0.50		11.0	10.40	0	105.5	55.1	146	02/20/2020



Quality Control Results

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Client: CW3M Co, Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162440 SampType: LCS Units ppbv
SampleID: LCS-AG200220-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		9.45	10.00	0	94.5	40.4	143	02/20/2020
Styrene	0.50		11.2	10.10	0	110.7	61.4	165	02/20/2020
Tetrachloroethene	0.50		11.0	10.30	0	107.1	63.3	160	02/20/2020
Tetrahydrofuran	0.50		9.50	9.900	0	96.0	42.9	166	02/20/2020
Toluene	0.50		10.5	10.30	0	101.7	87.4	133	02/20/2020
trans-1,2-Dichloroethene	0.50		10.3	10.20	0	101.1	45.7	129	02/20/2020
trans-1,3-dichloropropene	0.50		10.0	9.100	0	110.0	60	140	02/20/2020
Trichloroethene	0.50		10.9	10.90	0	99.9	59.1	148	02/20/2020
Trichlorofluoromethane	0.50		9.38	9.700	0	96.7	59.9	166	02/20/2020
Vinyl acetate	0.50		11.1	11.00	0	101.3	38.4	132	02/20/2020
Vinyl chloride	0.50		10.1	10.70	0	94.2	44.7	146	02/20/2020
Xylenes, Total	1.50		33.0	30.50	0	108.2	88.6	141	02/20/2020
Surr: 4-Bromofluorobenzene			10.4	10.00		103.5	46.9	145	02/20/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162440 SampType: LCSD Units ppbv

RPD Limit 30

SampleID: LCSD-AG200220-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1,1-Trichloroethane	0.50		11.4	10.70	0	106.4	11.01	3.39	02/20/2020
1,1,2,2-Tetrachloroethane	0.50		11.2	10.10	0	110.8	10.81	3.45	02/20/2020
1,1,2-Trichloroethane	0.50		11.2	10.50	0	107.0	10.81	3.81	02/20/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.7	10.80	0	98.7	10.39	2.57	02/20/2020
1,1-Dichloroethane	0.50		10.2	9.900	0	102.9	9.910	2.79	02/20/2020
1,1-Dichloroethene	0.50		11.2	10.70	0	104.4	10.84	3.00	02/20/2020
1,2,4-Trichlorobenzene	0.50		7.94	9.500	0	83.6	7.710	2.94	02/20/2020
1,2,4-Trimethylbenzene	0.50		11.5	10.00	0	115.4	11.15	3.44	02/20/2020
1,2-Dibromoethane	0.50		11.6	10.40	0	111.8	11.37	2.26	02/20/2020
1,2-Dichlorobenzene	0.50		11.2	9.800	0	114.1	10.88	2.72	02/20/2020
1,2-Dichloroethane	0.50		10.9	10.20	0	106.5	10.59	2.52	02/20/2020
1,2-Dichloropropane	0.50		10.3	10.30	0	100.2	10.09	2.25	02/20/2020
1,3,5-Trimethylbenzene	0.50		11.4	10.10	0	113.3	11.10	3.02	02/20/2020
1,3-Butadiene	1.00		10.7	10.30	0	104.1	10.09	6.05	02/20/2020
1,3-Dichlorobenzene	0.50		11.1	10.00	0	111.4	10.90	2.18	02/20/2020
1,4-Dichlorobenzene	0.50		11.0	9.600	0	114.2	10.52	4.10	02/20/2020
2-Butanone	1.00		11.0	10.60	0	103.6	10.55	3.99	02/20/2020
2-Hexanone	0.50		13.0	10.30	0	125.8	12.55	3.21	02/20/2020
4-Methyl-2-pentanone	0.50		10.8	10.20	0	106.3	10.58	2.43	02/20/2020
Acetone	2.00		11.2	10.50	0	106.4	10.76	3.74	02/20/2020
Benzene	0.50		10.5	10.50	0	99.8	10.21	2.61	02/20/2020
Bromodichloromethane	0.50		10.8	10.50	0	102.6	10.51	2.44	02/20/2020
Bromoform	0.50		11.6	10.50	0	110.6	11.25	3.15	02/20/2020
Bromomethane	0.50		10.2	10.30	0	99.4	9.910	3.28	02/20/2020
Carbon disulfide	0.50		10.1	10.40	0	97.0	9.780	3.12	02/20/2020
Carbon tetrachloride	0.50		10.8	10.20	0	106.2	10.56	2.52	02/20/2020
Chlorobenzene	0.50		11.6	10.40	0	111.7	11.36	2.26	02/20/2020
Chloroethane	0.50		10.4	10.30	0	101.0	10.03	3.62	02/20/2020
Chloroform	0.50		10.7	10.60	0	101.3	10.50	2.26	02/20/2020
Chloromethane	0.50		9.93	10.00	0	99.3	8.990	9.94	02/20/2020
cis-1,2-Dichloroethene	0.50		10.9	10.40	0	104.7	10.54	3.27	02/20/2020
cis-1,3-dichloropropene	0.50		12.1	10.40	0	116.3	11.75	2.94	02/20/2020
Cyclohexane	0.50		11.1	10.70	0	103.6	10.70	3.58	02/20/2020
Dibromochloromethane	0.50		11.1	10.40	0	107.0	10.88	2.27	02/20/2020
Dichlorodifluoromethane	0.50		9.79	9.800	0	99.9	9.510	2.90	02/20/2020
Dichlorotetrafluoroethane	0.50		9.83	9.800	0	100.3	9.270	5.86	02/20/2020
Ethyl acetate	1.00		11.0	10.50	0	104.7	10.49	4.66	02/20/2020
Ethylbenzene	0.50		11.7	10.40	0	112.6	11.37	2.95	02/20/2020
Hexachlorobutadiene	0.50		7.32	10.10	0	72.5	7.140	2.49	02/20/2020
Isopropanol	3.00		14.2	10.90	0	130.1	13.73	3.22	02/20/2020
m,p-Xylene	1.00		22.7	20.40	0	111.2	22.12	2.50	02/20/2020
Methyl tert-butyl ether	0.50		11.7	10.50	0	111.5	11.34	3.21	02/20/2020
Methylene chloride	1.00		10.3	10.40	0	99.4	10.09	2.45	02/20/2020
n-Heptane	0.50		10.8	10.50	0	103.2	10.46	3.57	02/20/2020
n-Hexane	0.50		10.6	10.50	0	100.5	10.35	1.91	02/20/2020
o-Xylene	0.50		11.2	10.10	0	111.3	10.89	3.16	02/20/2020
p-Ethyltoluene	0.50		11.3	10.40	0	108.6	10.97	2.88	02/20/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162440 SampType: LCSD Units ppbv
 SampleID: LCSD-AG200220-1

RPD Limit 30

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Propylene	0.50		9.86	10.00	0	98.6	9.450	4.25	02/20/2020
Styrene	0.50		11.6	10.10	0	114.8	11.18	3.60	02/20/2020
Tetrachloroethene	0.50		11.2	10.30	0	109.1	11.03	1.89	02/20/2020
Tetrahydrofuran	0.50		9.78	9.900	0	98.8	9.500	2.90	02/20/2020
Toluene	0.50		10.8	10.30	0	104.4	10.48	2.54	02/20/2020
trans-1,2-Dichloroethene	0.50		10.6	10.20	0	103.7	10.31	2.58	02/20/2020
trans-1,3-dichloropropene	0.50		10.3	9.100	0	113.5	10.01	3.15	02/20/2020
Trichloroethene	0.50		11.2	10.90	0	102.6	10.89	2.63	02/20/2020
Trichlorofluoromethane	0.50		9.60	9.700	0	99.0	9.380	2.32	02/20/2020
Vinyl acetate	0.50		11.7	11.00	0	106.0	11.14	4.56	02/20/2020
Vinyl chloride	0.50		10.8	10.70	0	100.7	10.08	6.62	02/20/2020
Xylenes, Total	1.50		33.9	30.50	0	111.2	33.01	2.72	02/20/2020
Surr: 4-Bromofluorobenzene			10.3	10.00		102.7			02/20/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162476 SampType: MBLK Units ppbv
SampID: MBLK-AG200221-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		ND						02/21/2020
1,1,2,2-Tetrachloroethane	0.50		ND						02/21/2020
1,1,2-Trichloroethane	0.50		ND						02/21/2020
1,1,2-Trichlorotrifluoroethane	0.50		ND						02/21/2020
1,1-Dichloroethane	0.50		ND						02/21/2020
1,1-Dichloroethene	0.50		ND						02/21/2020
1,2,4-Trichlorobenzene	0.50		ND						02/21/2020
1,2,4-Trimethylbenzene	0.50		ND						02/21/2020
1,2-Dibromoethane	0.50		ND						02/21/2020
1,2-Dichlorobenzene	0.50		ND						02/21/2020
1,2-Dichloroethane	0.50		ND						02/21/2020
1,2-Dichloropropane	0.50		ND						02/21/2020
1,3,5-Trimethylbenzene	0.50		ND						02/21/2020
1,3-Butadiene	1.00		ND						02/21/2020
1,3-Dichlorobenzene	0.50		ND						02/21/2020
1,4-Dichlorobenzene	0.50		ND						02/21/2020
1-Butanone	1.00		ND						02/21/2020
2-Hexanone	0.50		ND						02/21/2020
4-Methyl-2-pentanone	0.50		ND						02/21/2020
Acetone	2.00		ND						02/21/2020
Benzene	0.50		ND						02/21/2020
Bromodichloromethane	0.50		ND						02/21/2020
Bromoform	0.50		ND						02/21/2020
Bromomethane	0.50		ND						02/21/2020
Carbon disulfide	0.50		ND						02/21/2020
Carbon tetrachloride	0.50		ND						02/21/2020
Chlorobenzene	0.50		ND						02/21/2020
Chloroethane	0.50		ND						02/21/2020
Chloroform	0.50		ND						02/21/2020
Chloromethane	0.50		ND						02/21/2020
cis-1,2-Dichloroethene	0.50		ND						02/21/2020
cis-1,3-dichloropropene	0.50		ND						02/21/2020
Cyclohexane	0.50		ND						02/21/2020
Dibromochloromethane	0.50		ND						02/21/2020
Dichlorodifluoromethane	0.50		ND						02/21/2020
Dichlorotetrafluoroethane	0.50		ND						02/21/2020
Ethyl acetate	1.00		ND						02/21/2020
Ethylbenzene	0.50		ND						02/21/2020
Hexachlorobutadiene	0.50		ND						02/21/2020
Isopropanol	3.00		ND						02/21/2020
m,p-Xylene	1.00		ND						02/21/2020
Methyl tert-butyl ether	0.50		ND						02/21/2020
ethylene chloride	1.00		ND						02/21/2020
n-Heptane	0.50		ND						02/21/2020
n-Hexane	0.50		ND						02/21/2020
o-Xylene	0.50		ND						02/21/2020
o-Ethyltoluene	0.50		ND						02/21/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162476 SampType: MBLK Units ppbv
 SampleID: MBLK-AG200221-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		ND						02/21/2020
Styrene	0.50		ND						02/21/2020
Tetrachloroethene	0.50		ND						02/21/2020
Tetrahydrofuran	0.50		ND						02/21/2020
Toluene	0.50		ND						02/21/2020
trans-1,2-Dichloroethene	0.50		ND						02/21/2020
trans-1,3-dichloropropene	0.50		ND						02/21/2020
Trichloroethene	0.50		ND						02/21/2020
Trichlorofluoromethane	0.50		ND						02/21/2020
Vinyl acetate	0.50		ND						02/21/2020
Vinyl chloride	0.50		ND						02/21/2020
Xylenes, Total	1.50		ND						02/21/2020
Surr: 4-Bromofluorobenzene			9.45	10.00		94.5	46.9	145	02/21/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co, Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162476 SampType: LCS Units ppbv
SampID: LCS-AG200221-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		11.0	10.70	0	102.5	51.4	141	02/21/2020
1,1,2,2-Tetrachloroethane	0.50		11.0	10.10	0	109.2	57.6	163	02/21/2020
1,1,2-Trichloroethane	0.50		11.0	10.50	0	104.7	60.1	159	02/21/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.4	10.80	0	95.9	56	145	02/21/2020
1,1-Dichloroethane	0.50		9.93	9.900	0	100.3	51.6	150	02/21/2020
1,1-Dichloroethene	0.50		10.8	10.70	0	101.2	48.5	139	02/21/2020
1,2,4-Trichlorobenzene	0.50		7.51	9.500	0	79.1	33	262	02/21/2020
1,2,4-Trimethylbenzene	0.50		11.2	10.00	0	111.9	62.7	174	02/21/2020
1,2-Dibromoethane	0.50		11.3	10.40	0	108.9	61.6	160	02/21/2020
1,2-Dichlorobenzene	0.50		10.8	9.800	0	110.4	59.8	169	02/21/2020
1,2-Dichloroethane	0.50		10.6	10.20	0	103.8	52	149	02/21/2020
1,2-Dichloropropane	0.50		10.3	10.30	0	100.0	53.2	155	02/21/2020
1,3,5-Trimethylbenzene	0.50		11.2	10.10	0	110.5	64.6	176	02/21/2020
1,3-Butadiene	1.00		10.8	10.30	0	105.0	58.6	131	02/21/2020
1,3-Dichlorobenzene	0.50		10.7	10.00	0	107.4	59.7	167	02/21/2020
1,4-Dichlorobenzene	0.50		10.5	9.600	0	109.7	58.8	165	02/21/2020
2-Butanone	1.00		10.9	10.60	0	103.0	41.7	159	02/21/2020
2-Hexanone	0.50		12.9	10.30	0	125.3	49	159	02/21/2020
4-Methyl-2-pentanone	0.50		10.8	10.20	0	106.4	42.4	152	02/21/2020
Acetone	2.00		10.9	10.50	0	103.7	42.1	163	02/21/2020
Benzene	0.50		10.4	10.50	0	98.6	83	125	02/21/2020
Bromodichloromethane	0.50		10.6	10.50	0	100.8	54.1	144	02/21/2020
Bromoform	0.50		11.2	10.50	0	107.0	57.6	154	02/21/2020
Bromomethane	0.50		10.0	10.30	0	97.6	48.1	147	02/21/2020
Carbon disulfide	0.50		9.99	10.40	0	96.1	48.5	133	02/21/2020
Carbon tetrachloride	0.50		10.4	10.20	0	102.4	54.7	142	02/21/2020
Chlorobenzene	0.50		11.3	10.40	0	108.6	62.1	163	02/21/2020
Chloroethane	0.50		10.2	10.30	0	99.5	47.3	146	02/21/2020
Chloroform	0.50		10.6	10.60	0	99.5	52.9	143	02/21/2020
Chloromethane	0.50		9.93	10.00	0	99.3	40.2	143	02/21/2020
cis-1,2-Dichloroethene	0.50		10.7	10.40	0	102.9	56.6	145	02/21/2020
cis-1,3-dichloropropene	0.50		11.9	10.40	0	114.6	57.2	162	02/21/2020
Cyclohexane	0.50		11.0	10.70	0	102.8	49.7	146	02/21/2020
Dibromochloromethane	0.50		10.9	10.40	0	104.6	58.3	152	02/21/2020
Dichlorodifluoromethane	0.50		9.52	9.800	0	97.1	55.4	149	02/21/2020
Dichlorotetrafluoroethane	0.50		9.64	9.800	0	98.4	53.7	155	02/21/2020
Ethyl acetate	1.00		10.8	10.50	0	102.9	49.6	163	02/21/2020
Ethylbenzene	0.50		11.5	10.40	0	110.5	85.9	143	02/21/2020
Hexachlorobutadiene	0.50		7.03	10.10	0	69.6	46	208	02/21/2020
Isopropanol	3.00		13.7	10.90	0	126.1	32.8	147	02/21/2020
m,p-Xylene	1.00		22.2	20.40	0	109.1	88.5	141	02/21/2020
Methyl tert-butyl ether	0.50		11.3	10.50	0	107.6	52.1	152	02/21/2020
Methylene chloride	1.00		10.3	10.40	0	99.0	45.6	147	02/21/2020
n-Heptane	0.50		10.9	10.50	0	103.6	43.4	149	02/21/2020
n-Hexane	0.50		10.6	10.50	0	101.3	48.1	146	02/21/2020
o-Xylene	0.50		11.0	10.10	0	109.1	88.7	142	02/21/2020
p-Ethyltoluene	0.50		11.0	10.40	0	106.0	55.1	146	02/21/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162476 SampType: LCS Units ppbv
 SampleID: LCS-AG200221-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		9.55	10.00	0	95.5	40.4	143	02/21/2020
Styrene	0.50		11.3	10.10	0	112.0	61.4	165	02/21/2020
Tetrachloroethene	0.50		10.9	10.30	0	106.0	63.3	180	02/21/2020
Tetrahydrofuran	0.50		9.83	9.900	0	99.3	42.9	166	02/21/2020
Toluene	0.50		10.6	10.30	0	102.6	87.4	133	02/21/2020
trans-1,2-Dichloroethene	0.50		10.4	10.20	0	102.1	45.7	129	02/21/2020
trans-1,3-dichloropropene	0.50		10.1	9.100	0	111.1	60	140	02/21/2020
Trichloroethene	0.50		10.9	10.90	0	99.8	59.1	148	02/21/2020
Trichlorofluoromethane	0.50		9.21	9.700	0	94.9	59.9	166	02/21/2020
Vinyl acetate	0.50		11.8	11.00	0	107.6	38.4	132	02/21/2020
Vinyl chloride	0.50		10.9	10.70	0	102.1	44.7	146	02/21/2020
Xylenes, Total	1.50		33.3	30.50	0	109.1	88.6	141	02/21/2020
Surr: 4-Bromofluorobenzene			10.3	10.00		102.6	46.9	145	02/21/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162476	SampType: LCSD	Units ppbv	RPD Limit 30						
SampID: LCSD-AG200221-1									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1,1-Trichloroethane	0.50		11.0	10.70	0	102.5	10.97	0.00	02/21/2020
1,1,2,2-Tetrachloroethane	0.50		11.1	10.10	0	110.3	11.03	0.99	02/21/2020
1,1,2-Trichloroethane	0.50		11.0	10.50	0	104.9	10.99	0.18	02/21/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.4	10.80	0	96.1	10.36	0.19	02/21/2020
1,1-Dichloroethane	0.50		9.95	9.900	0	100.5	9.930	0.20	02/21/2020
1,1-Dichloroethene	0.50		10.9	10.70	0	101.5	10.83	0.28	02/21/2020
1,2,4-Trichlorobenzene	0.50		7.60	9.500	0	80.0	7.510	1.19	02/21/2020
1,2,4-Trimethylbenzene	0.50		11.3	10.00	0	113.3	11.19	1.24	02/21/2020
1,2-Dibromoethane	0.50		11.4	10.40	0	110.1	11.33	1.05	02/21/2020
1,2-Dichlorobenzene	0.50		10.9	9.800	0	111.0	10.82	0.55	02/21/2020
1,2-Dichloroethane	0.50		10.6	10.20	0	103.6	10.59	0.19	02/21/2020
1,2-Dichloropropane	0.50		10.2	10.30	0	99.2	10.30	0.78	02/21/2020
1,3,5-Trimethylbenzene	0.50		11.2	10.10	0	110.9	11.16	0.36	02/21/2020
1,3-Butadiene	1.00		10.8	10.30	0	104.7	10.82	0.37	02/21/2020
1,3-Dichlorobenzene	0.50		10.8	10.00	0	108.4	10.74	0.93	02/21/2020
1,4-Dichlorobenzene	0.50		10.6	9.600	0	109.9	10.53	0.19	02/21/2020
2-Butanone	1.00		10.9	10.60	0	102.9	10.92	0.09	02/21/2020
2-Hexanone	0.50		12.9	10.30	0	125.2	12.91	0.08	02/21/2020
4-Methyl-2-pentanone	0.50		10.9	10.20	0	106.5	10.85	0.09	02/21/2020
Acetone	2.00		10.9	10.50	0	104.1	10.89	0.37	02/21/2020
Benzene	0.50		10.4	10.50	0	99.0	10.35	0.39	02/21/2020
Bromodichloromethane	0.50		10.6	10.50	0	100.5	10.58	0.28	02/21/2020
Bromoform	0.50		11.3	10.50	0	107.3	11.23	0.36	02/21/2020
Bromomethane	0.50		10.1	10.30	0	98.2	10.05	0.60	02/21/2020
Carbon disulfide	0.50		10.0	10.40	0	96.2	9.990	0.10	02/21/2020
Carbon tetrachloride	0.50		10.5	10.20	0	102.5	10.44	0.19	02/21/2020
Chlorobenzene	0.50		11.4	10.40	0	109.2	11.29	0.62	02/21/2020
Chloroethane	0.50		10.1	10.30	0	98.4	10.25	1.08	02/21/2020
Chloroform	0.50		10.5	10.60	0	99.3	10.55	0.19	02/21/2020
Chloromethane	0.50		9.85	10.00	0	98.5	9.930	0.81	02/21/2020
cis-1,2-Dichloroethene	0.50		10.8	10.40	0	103.9	10.70	1.02	02/21/2020
cis-1,3-dichloropropene	0.50		12.0	10.40	0	115.1	11.92	0.42	02/21/2020
Cyclohexane	0.50		11.0	10.70	0	103.2	11.00	0.36	02/21/2020
Dibromochloromethane	0.50		10.9	10.40	0	105.1	10.88	0.46	02/21/2020
Dichlorodifluoromethane	0.50		9.48	9.800	0	96.7	9.520	0.42	02/21/2020
Dichlorotetrafluoroethane	0.50		9.60	9.800	0	98.0	9.640	0.42	02/21/2020
Ethyl acetate	1.00		10.9	10.50	0	103.8	10.80	0.92	02/21/2020
Ethylbenzene	0.50		11.5	10.40	0	110.9	11.49	0.35	02/21/2020
Hexachlorobutadiene	0.50		7.03	10.10	0	69.6	7.030	0.00	02/21/2020
Isopropanol	3.00		14.0	10.90	0	128.1	13.74	1.59	02/21/2020
m,p-Xylene	1.00		22.3	20.40	0	109.5	22.25	0.36	02/21/2020
Methyl tert-butyl ether	0.50		11.4	10.50	0	108.6	11.30	0.88	02/21/2020
Methylene chloride	1.00		10.3	10.40	0	99.1	10.30	0.10	02/21/2020
n-Heptane	0.50		10.7	10.50	0	102.0	10.88	1.57	02/21/2020
n-Hexane	0.50		10.6	10.50	0	101.4	10.64	0.09	02/21/2020
o-Xylene	0.50		11.1	10.10	0	109.5	11.02	0.36	02/21/2020
p-Ethyltoluene	0.50		11.1	10.40	0	106.5	11.02	0.54	02/21/2020



Quality Control Results

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Client: CW3M Co. Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162476 SampType: LCSD Units ppbv
SampID: LCSD-AG200221-1

RPD Limit 30

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Propylene	0.50		9.78	10.00	0	97.6	9.550	2.38	02/21/2020
Styrene	0.50		11.3	10.10	0	112.2	11.31	0.18	02/21/2020
Tetrachloroethene	0.50		10.9	10.30	0	105.5	10.92	0.46	02/21/2020
Tetrahydrofuran	0.50		9.79	9.900	0	98.9	9.830	0.41	02/21/2020
Toluene	0.50		10.6	10.30	0	102.4	10.57	0.19	02/21/2020
trans-1,2-Dichloroethene	0.50		10.4	10.20	0	102.1	10.41	0.00	02/21/2020
trans-1,3-dichloropropene	0.50		10.2	9.100	0	111.8	10.11	0.59	02/21/2020
Trichloroethene	0.50		10.8	10.90	0	99.4	10.88	0.46	02/21/2020
Trichlorofluoromethane	0.50		9.20	9.700	0	94.8	9.210	0.11	02/21/2020
Vinyl acetate	0.50		11.8	11.00	0	107.3	11.84	0.34	02/21/2020
Vinyl chloride	0.50		10.8	10.70	0	101.2	10.93	0.92	02/21/2020
Xylenes, Total	1.50		33.4	30.50	0	109.5	33.27	0.36	02/21/2020
Surr: 4-Bromofluorobenzene			10.3	10.00		102.8			02/21/2020



Quality Control Results

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Client: CW3M Co. Inc.
Client Project: ABP-Gibson City

Work Order: 20020904
Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162484 SampType: MBLK Units ppbv
SampID: MBLK-AG200222-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		ND						02/22/2020
1,1,2,2-Tetrachloroethane	0.50		ND						02/22/2020
1,1,2-Trichloroethane	0.50		ND						02/22/2020
1,1,2-Trichlorotrifluoroethane	0.50		ND						02/22/2020
1,1-Dichloroethane	0.50		ND						02/22/2020
1,1-Dichloroethene	0.50		ND						02/22/2020
1,2,4-Trichlorobenzene	0.50		ND						02/22/2020
1,2,4-Trimethylbenzene	0.50		ND						02/22/2020
1,2-Dibromoethane	0.50		ND						02/22/2020
1,2-Dichlorobenzene	0.50		ND						02/22/2020
1,2-Dichloroethane	0.50		ND						02/22/2020
1,2-Dichloropropane	0.50		ND						02/22/2020
1,3,5-Trimethylbenzene	0.50		ND						02/22/2020
1,3-Butadiene	1.00		ND						02/22/2020
1,3-Dichlorobenzene	0.50		ND						02/22/2020
1,4-Dichlorobenzene	0.50		ND						02/22/2020
2-Butanone	1.00		ND						02/22/2020
2-Hexanone	0.50		ND						02/22/2020
4-Methyl-2-pentanone	0.50		ND						02/22/2020
Acetone	2.00		ND						02/22/2020
Benzene	0.50		ND						02/22/2020
Bromodichloromethane	0.50		ND						02/22/2020
Bromoform	0.50		ND						02/22/2020
Bromomethane	0.50		ND						02/22/2020
Carbon disulfide	0.50		ND						02/22/2020
Carbon tetrachloride	0.50		ND						02/22/2020
Chlorobenzene	0.50		ND						02/22/2020
Chloroethane	0.50		ND						02/22/2020
Chloroform	0.50		ND						02/22/2020
Chloromethane	0.50		ND						02/22/2020
cis-1,2-Dichloroethene	0.50		ND						02/22/2020
cis-1,3-dichloropropene	0.50		ND						02/22/2020
Cyclohexane	0.50		ND						02/22/2020
Dibromochloromethane	0.50		ND						02/22/2020
Dichlorodifluoromethane	0.50		ND						02/22/2020
Dichlorotetrafluoroethane	0.50		ND						02/22/2020
Ethyl acetate	1.00		ND						02/22/2020
Ethylbenzene	0.50		ND						02/22/2020
Hexachlorobutadiene	0.50		ND						02/22/2020
Isopropanol	3.00		ND						02/22/2020
m,p-Xylene	1.00		ND						02/22/2020
Methyl tert-butyl ether	0.50		ND						02/22/2020
Methylene chloride	1.00		ND						02/22/2020
n-Heptane	0.50		ND						02/22/2020
n-Hexane	0.50		ND						02/22/2020
o-Xylene	0.50		ND						02/22/2020
p-Ethyltoluene	0.50		ND						02/22/2020



Quality Control Results

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Client: CW3M Co, Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162484 SampType: MBLK Units ppbv
 SampleID: MBLK-AG200222-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		ND						02/22/2020
Styrene	0.50		ND						02/22/2020
Tetrachloroethene	0.50		ND						02/22/2020
Tetrahydrofuran	0.50		ND						02/22/2020
Toluene	0.50		ND						02/22/2020
trans-1,2-Dichloroethene	0.50		ND						02/22/2020
trans-1,3-dichloropropene	0.50		ND						02/22/2020
Trichloroethene	0.50		ND						02/22/2020
Trichlorofluoromethane	0.50		ND						02/22/2020
Vinyl acetate	0.50		ND						02/22/2020
Vinyl chloride	0.50		ND						02/22/2020
Xylenes, Total	1.50		ND						02/22/2020
Surr: 4-Bromofluorobenzene			9.51	10.00		95.1	46.9	145	02/22/2020



Quality Control Results

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Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

 Batch 162484 SampType: LCS Units ppbv
 SampleID: LCS-AG200222-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1-Trichloroethane	0.50		11.1	10.70	0	103.6	51.4	141	02/22/2020
1,1,2,2-Tetrachloroethane	0.50		11.1	10.10	0	110.3	57.6	163	02/22/2020
1,1,2-Trichloroethane	0.50		11.0	10.50	0	105.2	60.1	159	02/22/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.4	10.80	0	96.7	56	145	02/22/2020
1,1-Dichloroethane	0.50		10.0	9.900	0	101.2	51.6	150	02/22/2020
1,1-Dichloroethene	0.50		10.9	10.70	0	102.2	48.5	139	02/22/2020
1,2,4-Trichlorobenzene	0.50		7.58	9.500	0	79.8	33	262	02/22/2020
1,2,4-Trimethylbenzene	0.50		11.3	10.00	0	112.6	62.7	174	02/22/2020
1,2-Dibromoethane	0.50		11.5	10.40	0	110.8	61.6	160	02/22/2020
1,2-Dichlorobenzene	0.50		10.8	9.800	0	110.6	59.8	169	02/22/2020
1,2-Dichloroethane	0.50		10.6	10.20	0	104.3	52	149	02/22/2020
1,2-Dichloropropane	0.50		10.4	10.30	0	101.0	53.2	155	02/22/2020
1,3,5-Trimethylbenzene	0.50		11.2	10.10	0	110.9	64.6	176	02/22/2020
1,3-Butadiene	1.00		10.8	10.30	0	104.8	58.6	131	02/22/2020
1,3-Dichlorobenzene	0.50		10.8	10.00	0	108.1	59.7	167	02/22/2020
1,4-Dichlorobenzene	0.50		10.6	9.600	0	110.6	58.8	165	02/22/2020
γ-Butanone	1.00		11.0	10.60	0	103.6	41.7	159	02/22/2020
2-Hexanone	0.50		12.8	10.30	0	124.4	49	159	02/22/2020
4-Methyl-2-pentanone	0.50		11.0	10.20	0	107.5	42.4	152	02/22/2020
Acetone	2.00		11.0	10.50	0	104.9	42.1	163	02/22/2020
Benzene	0.50		10.4	10.50	0	99.2	83	125	02/22/2020
Bromodichloromethane	0.50		10.7	10.50	0	102.2	54.1	144	02/22/2020
Bromoform	0.50		11.4	10.50	0	108.5	57.6	154	02/22/2020
Bromomethane	0.50		10.4	10.30	0	101.0	48.1	147	02/22/2020
Carbon disulfide	0.50		10.0	10.40	0	96.5	48.5	133	02/22/2020
Carbon tetrachloride	0.50		10.6	10.20	0	103.7	54.7	142	02/22/2020
Chlorobenzene	0.50		11.5	10.40	0	110.6	62.1	163	02/22/2020
Chloroethane	0.50		10.4	10.30	0	100.8	47.3	146	02/22/2020
Chloroform	0.50		10.8	10.60	0	101.4	52.9	143	02/22/2020
Chloromethane	0.50		9.87	10.00	0	98.7	40.2	143	02/22/2020
cis-1,2-Dichloroethene	0.50		10.9	10.40	0	104.7	56.6	145	02/22/2020
cis-1,3-dichloropropene	0.50		12.0	10.40	0	115.5	57.2	162	02/22/2020
Cyclohexane	0.50		11.2	10.70	0	104.4	49.7	146	02/22/2020
Dibromochloromethane	0.50		11.0	10.40	0	105.7	58.3	152	02/22/2020
Dichlorodifluoromethane	0.50		9.62	9.800	0	98.2	55.4	149	02/22/2020
Dichlorotetrafluoroethane	0.50		9.67	9.800	0	98.7	53.7	155	02/22/2020
Ethyl acetate	1.00		11.0	10.50	0	104.7	49.6	163	02/22/2020
Ethylbenzene	0.50		11.6	10.40	0	111.1	85.9	143	02/22/2020
Hexachlorobutadiene	0.50		7.04	10.10	0	69.7	46	208	02/22/2020
Isopropanol	3.00		14.0	10.90	0	128.7	32.8	147	02/22/2020
m,p-Xylene	1.00		22.4	20.40	0	109.6	88.5	141	02/22/2020
Methyl tert-butyl ether	0.50		11.4	10.50	0	108.8	52.1	152	02/22/2020
Methylene chloride	1.00		10.4	10.40	0	100.2	45.6	147	02/22/2020
n-Heptane	0.50		11.0	10.50	0	104.6	43.4	149	02/22/2020
n-Hexane	0.50		10.8	10.50	0	102.9	48.1	146	02/22/2020
o-Xylene	0.50		11.1	10.10	0	109.6	88.7	142	02/22/2020
p-Ethyltoluene	0.50		11.1	10.40	0	106.9	55.1	146	02/22/2020



Quality Control Results

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Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 182484 SampType: LCS Units ppbv
 SampleID: LCS-AG200222-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Propylene	0.50		9.95	10.00	0	99.5	40.4	143	02/22/2020
Styrene	0.50		11.5	10.10	0	113.7	61.4	165	02/22/2020
Tetrachloroethene	0.50		10.9	10.30	0	106.2	63.3	160	02/22/2020
Tetrahydrofuran	0.50		10.0	9.900	0	101.0	42.9	166	02/22/2020
Toluene	0.50		10.7	10.30	0	103.8	87.4	133	02/22/2020
trans-1,2-Dichloroethene	0.50		10.5	10.20	0	102.9	45.7	129	02/22/2020
trans-1,3-dichloropropene	0.50		10.2	9.100	0	112.0	60	140	02/22/2020
Trichloroethene	0.50		11.0	10.90	0	100.7	59.1	148	02/22/2020
Trichlorofluoromethane	0.50		9.32	9.700	0	96.1	59.9	166	02/22/2020
Vinyl acetate	0.50		11.9	11.00	0	108.3	38.4	132	02/22/2020
Vinyl chloride	0.50		10.8	10.70	0	100.6	44.7	146	02/22/2020
Xylenes, Total	1.50		33.4	30.50	0	109.6	88.6	141	02/22/2020
Surr: 4-Bromofluorobenzene			10.2	10.00		102.3	46.9	145	02/22/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162484	SampType: LCSD	Units ppbv	RPD Limit 30						
SampID: LCSD-AG200222-1									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1,1-Trichloroethane	0.50		11.1	10.70	0	103.7	11.09	0.09	02/22/2020
1,1,2,2-Tetrachloroethane	0.50		11.3	10.10	0	111.5	11.14	1.07	02/22/2020
1,1,2-Trichloroethane	0.50		11.2	10.50	0	106.4	11.05	1.08	02/22/2020
1,1,2-Trichlorotrifluoroethane	0.50		10.4	10.80	0	96.6	10.44	0.10	02/22/2020
1,1-Dichloroethane	0.50		10.1	9.900	0	101.8	10.02	0.60	02/22/2020
1,1-Dichloroethene	0.50		11.0	10.70	0	103.0	10.94	0.73	02/22/2020
1,2,4-Trichlorobenzene	0.50		7.74	9.500	0	81.5	7.580	2.09	02/22/2020
1,2,4-Trimethylbenzene	0.50		11.4	10.00	0	114.4	11.26	1.59	02/22/2020
1,2-Dibromoethane	0.50		11.6	10.40	0	111.3	11.52	0.52	02/22/2020
1,2-Dichlorobenzene	0.50		11.0	9.800	0	112.6	10.84	1.74	02/22/2020
1,2-Dichloroethane	0.50		10.8	10.20	0	105.5	10.64	1.12	02/22/2020
1,2-Dichloropropane	0.50		10.5	10.30	0	101.6	10.40	0.58	02/22/2020
1,3,5-Trimethylbenzene	0.50		11.4	10.10	0	112.6	11.20	1.51	02/22/2020
1,3-Butadiene	1.00		10.8	10.30	0	105.3	10.79	0.55	02/22/2020
1,3-Dichlorobenzene	0.50		11.0	10.00	0	109.8	10.81	1.56	02/22/2020
1,4-Dichlorobenzene	0.50		10.7	9.500	0	111.6	10.62	0.84	02/22/2020
2-Butanone	1.00		11.0	10.60	0	103.3	10.98	0.27	02/22/2020
2-Hexanone	0.50		13.2	10.30	0	128.5	12.81	3.30	02/22/2020
4-Methyl-2-pentanone	0.50		11.1	10.20	0	108.4	10.97	0.82	02/22/2020
Acetone	2.00		11.0	10.50	0	105.1	11.01	0.27	02/22/2020
Benzene	0.50		10.5	10.50	0	99.7	10.42	0.48	02/22/2020
Bromodichloromethane	0.50		10.7	10.50	0	101.7	10.73	0.47	02/22/2020
Bromoform	0.50		11.4	10.50	0	109.0	11.39	0.53	02/22/2020
Bromomethane	0.50		9.99	10.30	0	97.0	10.40	4.02	02/22/2020
Carbon disulfide	0.50		10.0	10.40	0	96.4	10.04	0.10	02/22/2020
Carbon tetrachloride	0.50		10.6	10.20	0	103.4	10.58	0.28	02/22/2020
Chlorobenzene	0.50		11.6	10.40	0	111.1	11.50	0.43	02/22/2020
Chloroethane	0.50		10.4	10.30	0	100.9	10.38	0.10	02/22/2020
Chloroform	0.50		10.7	10.60	0	100.9	10.75	0.47	02/22/2020
Chloromethane	0.50		10.1	10.00	0	100.9	9.870	2.20	02/22/2020
cis-1,2-Dichloroethene	0.50		10.9	10.40	0	104.7	10.89	0.00	02/22/2020
cis-1,3-dichloropropene	0.50		12.1	10.40	0	116.6	12.01	0.99	02/22/2020
Cyclohexane	0.50		11.2	10.70	0	104.2	11.17	0.18	02/22/2020
Dibromochloromethane	0.50		11.1	10.40	0	106.6	10.99	0.91	02/22/2020
Dichlorodifluoromethane	0.50		9.59	9.800	0	97.9	9.620	0.31	02/22/2020
Dichlorotetrafluoroethane	0.50		9.59	9.800	0	98.9	9.670	0.21	02/22/2020
Ethyl acetate	1.00		11.0	10.50	0	104.5	10.99	0.18	02/22/2020
Ethylbenzene	0.50		11.7	10.40	0	112.3	11.55	1.12	02/22/2020
Hexachlorobutadiene	0.50		7.17	10.10	0	71.0	7.040	1.83	02/22/2020
Isopropanol	3.00		14.0	10.90	0	128.8	14.03	0.07	02/22/2020
m,p-Xylene	1.00		22.6	20.40	0	110.8	22.35	1.11	02/22/2020
Methyl tert-butyl ether	0.50		11.5	10.50	0	109.3	11.42	0.52	02/22/2020
Methylene chloride	1.00		10.4	10.40	0	99.8	10.42	0.38	02/22/2020
n-Heptane	0.50		11.0	10.50	0	105.0	10.98	0.36	02/22/2020
n-Hexane	0.50		10.8	10.50	0	102.6	10.80	0.28	02/22/2020
o-Xylene	0.50		11.2	10.10	0	110.8	11.07	1.08	02/22/2020
p-Ethyltoluene	0.50		11.3	10.40	0	108.5	11.12	1.43	02/22/2020



Quality Control Results

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

TO-15, VOLATILE ORGANIC COMPOUNDS, BY GC/MS

Batch 162484 SampType: LCSD Units ppbv
 SampID: LCSD-AG200222-1

RPD Limit 30

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Propylene	0.50		10.0	10.00	0	100.3	9.950	0.80	02/22/2020
Styrene	0.50		11.5	10.10	0	114.2	11.48	0.43	02/22/2020
Tetrachloroethene	0.50		11.0	10.30	0	107.1	10.94	0.82	02/22/2020
Tetrahydrofuran	0.50		10.0	9.900	0	101.5	10.00	0.50	02/22/2020
Toluene	0.50		10.7	10.30	0	104.1	10.69	0.28	02/22/2020
trans-1,2-Dichloroethene	0.50		10.6	10.20	0	103.4	10.50	0.48	02/22/2020
trans-1,3-dichloropropene	0.50		10.3	9.100	0	112.7	10.19	0.68	02/22/2020
Trichloroethene	0.50		11.1	10.90	0	101.7	10.98	1.00	02/22/2020
Trichlorofluoromethane	0.50		9.32	9.700	0	96.1	9.320	0.00	02/22/2020
Vinyl acetate	0.50		11.8	11.00	0	107.2	11.91	1.01	02/22/2020
Vinyl chloride	0.50		10.8	10.70	0	100.7	10.76	0.19	02/22/2020
Xylenes, Total	1.50		33.8	30.50	0	110.8	33.42	1.10	02/22/2020
Surr: 4-Bromofluorobenzene			10.3	10.00		102.7			02/22/2020



Receiving Check List

<http://www.teklabinc.com/>

Client: CW3M Co. Inc.

Work Order: 20020904

Client Project: ABP-Gibson City

Report Date: 24-Feb-2020

Carrier: John Riley

Received By: KMT

Completed by:

Amber M. Dilallo

Reviewed by:

Elizabeth A. Hurley

On:

On:

17-Feb-2020

17-Feb-2020

Amber M. Dilallo

Elizabeth A. Hurley

Pages to follow: Chain of custody Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C <i>n/a</i>
Type of thermal preservation?	None <input checked="" type="checkbox"/>	Ice <input type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water - at least one vial per sample has zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

Any No responses must be detailed below or on the COC.

Sample was transferred to Collinsville Air Lab on 2/18/20 at 0930. - ehurley - 2/18/2020 10:37:43 AM

Clients sample id, canister id and clients final pressure readings followed by readings taken upon arrival at the laboratory. - HRiley - 2/18/2020 1:22:17 PM
SV-1 5094 -10/-9

AIR SAMPLING FIELD FORM AND CHAIN OF CUSTODY

Client Name: CWM Company, Inc.
 Address: 701 W. South Grand Ave
 Phone: (217) 522-
 Email: CWM @ CWM Company. com
 Project ID: ABP-Gibson City
 Project Manager: Carol L. Rowe
 Sampler: MJS/ JKS
 PO Number:

Results Requested (check one) <input checked="" type="checkbox"/> Standard (7-10 day) <input type="checkbox"/> 1 Day (200% surcharge) <input type="checkbox"/> 2-3 Day (100% surcharge) <input type="checkbox"/> 4-5 Day (50% surcharge)	Sample Type (check one) <input type="checkbox"/> Ambient Air <input type="checkbox"/> Indoor Air <input type="checkbox"/> Indoor Sub-Slab <input type="checkbox"/> Stack <input checked="" type="checkbox"/> Soil Gas/Vapor <input type="checkbox"/> Landfill Gas <input type="checkbox"/> Other (specify)
---	--

Lab Use Only: Sample pick up Y N Samples on: Ice/Blue No Ice Temp: °C
 Comments:

Laboratory ID	Sample Identification	Canister Number	Controller Number	Sample Start Parameters			Sample Stop Parameters			Requested Analysis (list metals/other below in comments)									
				Date	Time	Vacuum (in. Hg)	Date	Time	Vacuum (in. Hg)	TO-15 Lists (standard) Extended	TO-15 select (RTE, MBTE, Napthalene (isopropanol), TPH-GRO)	TO-13	TO-4	PM10/ TSP	Metals	Other			
<u>6020104</u>	<u>SV-1</u>	<u>5094</u>	<u>40</u>	<u>2-12-20</u>	<u>10:10</u>	<u>29</u>	<u>2-12-20</u>	<u>10:45</u>	<u>10</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

Are these samples known to be involved in litigation? If yes, a level IV data package will be generated and a surcharge will apply. Yes No
 Are these samples known to be hazardous? Yes No
 Special QC Requirements/Special Instructions/Comments:

Shipping Company and Tracking Number:

Relinquished By	Date/Time	Received By	Date/Time
<u>[Signature]</u>	<u>2/14/20 13:43</u>	<u>[Signature]</u>	<u>2/14/20 13:43</u>
<u>[Signature]</u>	<u>2/17/20 8:25</u>	<u>[Signature]</u>	<u>2/17/20 08:25</u>
<u>[Signature]</u>	<u>2/18/20 09:30</u>	<u>[Signature]</u>	<u>2/18/20 09:30</u>

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.tekiabinc.com for terms and conditions.

White & Yellow Copy - Laboratory Pink Copy - Sampler

000190

Electronic Filing: Received, Clerk's Office 07/24/2024

2/17/20



Illinois Environmental Protection Agency

Bureau of Land • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation, orally or in writing, in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/44 and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program Laboratory Certification for Chemical Analysis

1. Site Identification

IEMA Incident # (6- or 8-digit): 20160917 IEPA LPC# (10-digit): 0530100002
Site Name: ABP Gibson City
Site Address (Not a P.O. Box): 120 West 1st Street
City: Gibson City County: Ford ZIP Code: 60936

Leaking UST Technical File

3. Sample Collector

I certify that:

- 1. Appropriate sampling equipment/methods were utilized to obtain representative samples. JKK
(Initial)
- 2. Chain-of-custody procedures were followed in the field. JKK
(Initial)
- 3. Sample integrity was maintained by proper preservation. JKK
(Initial)
- 4. All samples were properly labeled. JKK
(Initial)

4. Laboratory Representative

I certify that: 20020904

- 1. Proper chain-of-custody procedures were followed as documented on the chain-of-custody forms MWRH
(Initial)
- 2. Sample integrity was maintained by proper preservation. MWRH
(Initial)
- 3. All samples were properly labeled. MWRH
(Initial)
- 4. Quality assurance/quality control procedures were established and carried out. MWRH
(Initial)
- 5. Sample holding times were not exceeded. MWRH
(Initial)

20020904

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

MLP II
(Initial)

7. An accredited lab performed quantitative analysis using test methods identified in 35 IAC 186.180 (for samples collected on or after January 1, 2003).

MLP II
(Initial)

9. Signatures

I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name John K. Dren
Title Subsist
Company CWM Company, Inc.
Address 701 South Grand Ave. West
City Springfield
State IL
Zip Code 62704
Phone 217-522-8001
Signature [Signature]
Date 2-12-20

Laboratory Representative

Name Marvin L. Darling II
Title Project Manager
Company Teklab Inc.
Address 5445 Horseshoe Lake Rd
City Collinsville
State IL
Zip Code 62234
Phone 6183441004
Signature [Signature]
Date 2/25/20

APPENDIX H

**PROJECT LABOR AGREEMENT
DOCUMENTATION**

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMET
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

Project Labor Agreement Form.

The purpose of this form is to provide information with regard to Project Labor Agreement criteria.

Project Labor Agreements potentially apply under the following circumstances: (a) approval is requested of a Corrective Action Plan; (b) the plan involves field work activities; (c) the field work activities would be performed by a subcontractor (as opposed to the consultant); (d) an approval letter would be issued by the Illinois EPA on or after July 25, 2013; and (e) reimbursement would be sought from the Illinois Underground Storage Tank Fund. Project Labor Agreement determinations are required by Section 57.7(c)(3) of the Illinois Environmental Protection Act.

The field work activities which are proposed in the Corrective Action Plan (1 – Waste Characterization Sample, 2- Soil Borings, 1- Canopy Removal, 1- Excavation w/ 10 Samples, 1- Replacement Monitoring Well, 1- Soil-Gas Vapor Boring, and 1- Concrete Replacement) may potentially be subject to the use of a Project Labor Agreement.

Please answer the following questions either "yes" or "no", and please discuss the basis for each answer:

1. Will the use of a Project Labor Agreement advance the state's interest in reducing project costs paid from the Illinois Underground Storage Tank Fund?

Yes No

Discussion:

The original intent of PLAs was for large scale construction projects. These projects would include multiple trades working together or in conjunction with one another and could make disputes between parties a potential liability as the project might last a few years. However, LUST sites differ in that one to two trades are typically necessary to complete the work. The "teams" that work together on hazardous sites, such as LUST sites, train together and develop cohesive relationships. Only a handful of workers are necessary to conduct the work; jurisdictional disputes are non-existent as the parties work in harmony.

Further, the number of trades on this work is minimal as well; the work will be done by separate contractors without a mix of union and non-unionized work force. The site's small project will easily increase the cost of the project with a PLA required, contradicting the idea to minimize site remediation cost.

2. Will the use of a Project Labor Agreement advance the state's interest in efficiency, timeliness, and quality of project work, based upon the overall size, scope, complexity, and remediation objectives of the project?

Yes No

Discussion:

PLAs were first used in Illinois for large scale, large cost, and long duration highway development projects. All LUST work, no matter size or scope, is deemed small in comparative size to work normally prescribed a PLA. Collective bargaining agreements are unneeded as the number of facets required for any work does not reach a quantity warranting these agreements.

Specifically, the ABP Properties, LLC site in Gibson City, Illinois requires a minimal amount of work to be completed during the corrective action stage. 1 – Waste Characterization Sample, 2- Soil Borings, 1- Canopy Removal, 1- Excavation w/ 10 Samples, 1- Replacement Monitoring Well, 1- Soil-Gas Vapor Boring, and 1- Concrete Replacement comprise the entirety of this proposed plan. This can and will be done in a few non-consecutive days.

3. Does the project present safety concerns, including but not limited to the threat to human health and the environment? Will the use of a Project Labor Agreement advance the state's interest in promoting safety?

Yes No

Discussion:

LUST sites do not typically involve working within roadways unless the Corrective Action is within rights-of-way, on ingress / egress creates roadway issues which is not commonplace. Specifically, the ABP Properties, LLC site in Gibson City, Illinois is located on a lightly traveled roadway. Construction activities will take a few non-consecutive days and therefore the length of time that safety of the traveling public as an issue is null. As for safety, consultants co-train teams in OSHA HAZWOPER to ensure not only worker safety, but safety for those who may enter or be near the work environment.

4. Will the use of a Project Labor Agreement advance the state's interest in labor continuity and stability in completing the project work in accordance with the plan approved by the Illinois EPA?

Yes No

Discussion:

The timetable for the work to be performed at the ABP Properties, LLC site is no more than a few non-consecutive days; not exceeding or coming remotely close to 110 days in duration. On a scale of a few days, labor force continuity and stability does not arise as an issue to complete the project as it does not span the duration of collective bargaining agreements. Simply put, the scale of time and scope of work is so small that a labor agreement would not expire, causing workers to walk out of the job.

5. Will the use of a Project Labor Agreement advance the state's interest in performance of the project work by a skilled labor force, thereby achieving the remediation objectives of the project?

Yes No

Discussion:

Attracting workers from a union hall for only a partial day of work to a few days of work puts them at a disadvantage for the bulk of the time, and is not an enticing option to union workers. Simply put, small LUST projects are not going to attract the workforce that would conduct "efficient" and "safe" work. A PLA, then, does not guarantee skilled workers.

Because of the small scope of work, the bidding process would significantly increase the cost of activities at the ABP Properties, LLC site in Gibson City, Illinois. This would only increase the hardship of the owner and solely be detrimental to the efficiency of the project, which is the opposite of the objective put in place to push the project along towards closure.

6. Will the use of a Project Labor Agreement provide timely completion of the project work, thereby reducing the threat to human health and the environment that would result from delays in achieving the remediation objectives?

Yes No

Discussion:

With only its consultant and local contractors present at the ABP Properties, LLC site during the "construction event", which will last a few non-consecutive days, there are not multiple trades with closely or paralleled functions to create a work stoppage. The work will be completed within a few non-consecutive days.

7. Will the use of a Project Labor Agreement advance the state's interest of advancing minority owned and women owned businesses and minority and female employment?

Yes No

Discussion:

By applying a PLA to a project, the Agency may in fact directly negate one of its primary objectives, as stated to advance disadvantaged businesses. The Agency has provided no basis or discussion as to how the PLA will actually increase WBE participation. We believe that the opposite effect will occur.

Furthermore, IEPA correspondence approving PLAs for various projects states that a "PLA will advance the State's interest of advancing minority-owned and women-owned business and minority and female employment". A PLA only requires that if a minority or woman employee or business is used for the project, then additional reports are required. In the competitive bidding process, it is unlikely that all bidders are female or minority; or it is far-fetched to think that all few day construction projects with one to two workers will have either a female or minority represented in the workforce on site. There are no incentives to entice disadvantaged business participation.

In this instance, the box should not be checked if there are no incentives to hire minority workers, for example, the apprenticeship program offers \$10.00/hour back to prime contractors when minority participation is required. Use of this screening criteria needs understood and not used loosely. If in fact any disadvantaged businesses are utilized under a PLA, their reporting costs are increased, increasing the project costs.

SCREENING CRITERIA

With the lack of detailed screening criteria from the IEPA for deciding which projects require the use of a PLA, CW³M has followed screening criteria that IDOT uses for government funded programs in their department as that State Agency follows the executive orders of Illinois Governors Blagojevich and Quinn, and President Obama. Attached at the end of this appendix is a copy of the IDOT PLA Determination screening criteria and it lists twelve seemingly ubiquitous standards used to determine the applicability of PLA for construction projects. It has been included for your reference but will be used herein as a systematic way to show how each criterion has been evaluated for applicability for 'yes/no' answers and whether or not the use of a PLA should be considered. CW³M recognizes that these standards may not be the same standards IEPA uses to determine the applicability of PLA for LUST sites, but IEPA correspondence issuing PLA for various sites appears to have very closely matched various IDOT screening criterion as determined in LUST Incidents 2002-0851, 2006-0366, 2009-1397, 2009-0202, 2009-0203, 2011-0859, 2012-0382, 2012-0695, 2013-0906, 2014-0510 and 2013-1123.

1. *The project is being awarded and administered by a governmentally funded program.*

The "project" is privately contracted, a similar means as when a party secures legal counsel and other services. A contract is in place between a private company or citizen and a consultant or contractor who may also serve as a general contractor. That consultant will interface with governmental agencies on their behalf. They will submit claims for reimbursement after the completion of work, budgets and plan approval, and review of claims. The LUST Fund is a motor fuel tax collected by petroleum distributors, for reimbursement of LUST claims managed by the IEPA, so the answer to this question is "no". The IEPA administers the LUST Program to process claims and review technical plans and budgets not to award or administer the actual work done. As indicated on the PLA documents, the prime contractor is to secure the PLA. There is no "award" or "payment guarantee".

2. *The project is being constructed using state or local funds.*

The project is constructed using private funds, which ultimately may or may not be reimbursed with state funds. The current rates that the IEPA grants for LUST work have not been modified to reflect the recent changes regarding mandated payment of prevailing wages. That disport is placed on the owner/operator and their contractors. UST owners/operators collect sales tax into the LUST Fund for reimbursement of

remediation work; thus, it is no longer a clear “yes” answer and the owner/operator pays a deductible and is then reimbursed for “eligible” costs. The legislative intent of Public Act was for the IPCB to remedy rates to pay prevailing wages and rectify costs of PLAs and attorney fees.

- 3. The overall size, scope, sequencing, logistics, or other aspects of the project make it particularly challenging to manage, and use of a PLA is expected to help assure that the construction work is performed properly and efficiently under the circumstances.*

As stated, PLAs were first used in Illinois for large scale, large cost, and long duration highway development projects. All LUST work, no matter size or scope, is deemed small in comparative size to work normally prescribed a PLA, therefore disqualifying it from any PLA consideration. Collective bargaining agreements are unneeded as the number of facets required for any work does not reach a quantity warranting these agreements.

Specifically, the ABP Properties, LLC site in Gibson City, Illinois requires a minimal amount of work to be completed during the corrective action stage. Excavation of contaminated soil, removal of the existing canopy, and concrete replacement comprises the entirety of the proposed plan. This can and will be done in a few days.

- 4. The duration of construction activity on the project is expected to exceed one construction season (110 or more working days), or the nature of the project results in a heightened need for labor force continuity and stability over a substantial period of time.*

The timetable for the work to be performed at the ABP Properties, LLC site is no more than a few days; not exceeding or coming remotely close to 110 days in duration. On a scale of a few days, labor force continuity and stability does not arise as an issue to complete the project as it does not span the duration of collective bargaining agreements. Simply put, the scale of time and scope of work is so small that a labor agreement would not expire, causing workers to walk out of the job.

- 5. There is a firm construction completion date established for the project thereby increasing the adverse consequences of any work stoppage or other labor disruption.*

It is on the discretion of the consultant as to how quickly a plan is implemented once it is approved. With the Agency having 120 days to approve, modify, or deny a plan,

consultants cannot pre-plan or schedule the work until approved. Once approved, they coordinate with owners/operators and any subcontractors necessary with weather contingencies. Therefore, adverse consequences of labor disruptions or work stoppage are non-existent on a job that lasts a few hours to a few days for corrective action or for less than two weeks, non-concurrently for actual remediation to complete. Many contractors can perform remediation services in-house or from a pool of reliable subcontractors, with easily adjustable start dates; however, it is fiscally advantageous for the consultant to complete the work as quickly as possible with fewer workers.

The norm on small projects like this is to solicit contractors who provide estimates as to how much the cost to complete each individual task after the contract is awarded. Because this process cannot be completed, prices will ultimately change and push the project into being “stuck” as the costs cannot be met.

6. *The time required to complete the project is expected to extend beyond the expiration date of one or more existing collective bargaining agreements covering trades likely to be involved in the project, thereby increasing the likelihood of work stoppages or other labor disruptions during construction of the project.*

With only its consultant and local contractors present at the ABP Properties, LLC site during the “construction event”, which will last a few days, there are not multiple trades with closely or paralleled functions to create a work stoppage. The time required to complete the project will in no way come close to extending beyond the expiration of any existing collective bargaining agreements covering any of the trades.

7. *In the absence of a PLA, there is an increased likelihood of jurisdictional disputes among unions or of conflict between unionized and non-unionized workers on the project that could have a potentially material adverse effect on the time, cost, or quality of work performed on the project.*

As stated, the original intent of PLAs was for large scale construction projects. These projects would include multiple trades working together or in conjunction with one another and could make disputes between parties a potential liability as the project might last a few years. However, LUST sites differ in that one to two trades are typically necessary to complete the work. The “teams” that work together on hazardous sites, such as LUST sites, train together and develop cohesive relationships. Only a handful of workers are necessary to conduct the work; jurisdictional disputes are non-existent as the parties work in harmony.

Further, the number of trades on this work is minimal as well; the work will be done by separate contractors without a mix of union and non-unionized work force.

8. *The project presents specific safety concerns to the travelling public and a PLA will ensure labor force continuity and stability, decreasing the length of the safety concern.*

LUST sites do not typically involve roads unless the Corrective Action is within rights-of-way, on ingress / egress creates roadway issues which is not commonplace. Specifically, the ABP Properties, LLC site in Gibson City, Illinois is located on a lightly traveled roadway. As stated, construction activities will take a few days and therefore the length of time that safety of the traveling public as an issue is null. As for safety, consultants co-train teams in OSHA HAZWOPER to ensure not only worker safety, but safety for those who may enter or be near the work environment.

9. *Use of the PLA is expected to result in improved access to skilled labor, improved efficiency, or improved safety performance on the project.*

Attracting workers from a union hall for only a partial day of work puts them at a disadvantage for the bulk of the time, and is not an enticing option to union workers. Simply put, small LUST projects are not going to attract the workforce that would conduct "efficient" and "safe" work. A PLA, then, does not guarantee skilled workers.

Because of the small scope of work, the bidding process would significantly increase the cost of activities at the ABP Properties, LLC site in Gibson City, Illinois. This would only increase the hardship of the owner and solely be detrimental to the efficiency of the project, which is the opposite of the objective put in place to push the project along towards closure.

10. *Use of the PLA on the project is not expected to have a material adverse effect on the competitive bidding process.*

The use of a PLA on the project does have a material adverse effect on bidding, financing and completion of the project. The contract award process takes place long before the work or construction ever begins. As stated, budgets are approved or modified at the

discretion of the IEPA Project Managers and pre-approved IEPA rates. Competitive bidding is an option when work cannot be performed at the Agency's approved rates. The key factor here is financing. No owner can afford to pay cash for work that is bid on that they would pay double, wait months or even years to get paid for nominal handling charges, no payment guarantee (below what contractors outside of LUST get paid), and be responsible for the extra business costs of the PLA. They are not banks and NATLUST realized very quickly that having an approved budget meant nothing for security of payment, folded its tent, leaving owner/operators no other option than to pay or let contractors carry the burden. The legislative intent was to adjust the rates paid every day to the mandated prevailing wage rate and make the use of PLA's limited in scope.

11. *Use of a PLA on the project is not expected to have an adverse material effect on the ability of the Department to achieve other Departmental goals, (e.g. utilization of disadvantaged business, utilization of Illinois domiciled businesses, development of competitive vendor alternatives over time, etc.).*

By applying a PLA to a project, the Agency may in fact directly negate one of its primary objectives, as stated to advance disadvantaged businesses. The Agency has provided no basis or discussion as to how the PLA will actually increase WBE participation. We believe that the opposite effect will occur.

Furthermore, IEPA correspondence approving PLAs for various projects states that a "PLA will advance the State's interest of advancing minority-owned and women-owned business and minority and female employment". A PLA only requires that if a minority or woman employee or business is used for the project, then additional reports are required. In the competitive bidding process, it is unlikely that all bidders are female or minority; or it is far-fetched to think that all two-day construction projects with one to two workers will have either a female or minority represented in the workforce on site. There are no incentives to entice disadvantaged business participation.

In this instance, the box should not be checked if there are no incentives to hire minority workers, for example, the apprenticeship program offers \$10.00/hour back to prime contractors when minority participation is required. Use of this screening criteria needs understood and not used loosely. If in fact any disadvantaged businesses are utilized under a PLA, their reporting costs are increased, increasing the project costs.

12. *There are other material considerations favoring or disfavoring use of a PLA on this project as follows:*

- The total cost for corrective action field activities involving skilled labor totals an estimated \$131,687.81, not warranting a PLA in any program.
- The site's small project will easily increase the cost of the project with a PLA required, contradicting the idea to minimize site remediation cost.
- No reason was given by the IEPA for the implementation of a PLA on what may and should be the final step to gain closure on site; this will only further delay the goal of the Agency: closing the project, which the client is eager to finish.
- The common goal of the Agency and owner/operators is closure. A PLA on an extremely small plan will delay or indefinitely stall closure when closure is within the grasp of all parties involved.

Contract Number
County

IDOT PROJECT LABOR AGREEMENT DETERMINATION

To:

From:

Date:

Re:

In accordance with Executive Order 2003-13 (Blagojevich), it is recommended that a project labor agreement (PLA) be utilized for the above-captioned Project. This recommendation is based on the considerations indicated below.

- 1) The Project is being awarded and administered by IDOT (i.e., not by another governmental agency).
- 2) The Project is being constructed using state or local funds only (i.e., no federal funds).
- 3) The overall size, scope, sequencing, logistics or other aspects of the Project make it particularly challenging to manage, and use of a PLA is expected to help assure that the construction work is performed properly and efficiently under the circumstances.
- 4) The duration of construction activity on the Project is expected to exceed one construction season (i.e., 110 or more working days), or the nature of the Project results in a heightened need for labor force continuity and stability over a substantial period of time.
- 5) There is a firm construction completion date established for the Project thereby increasing the adverse consequences of any work stoppage or other labor disruption.
- 6) The time required to complete the Project is expected to extend beyond the expiration date of one or more existing collective bargaining agreements covering trades likely to be involved in the Project, thereby increasing the likelihood of work stoppage(s) or other labor disruption(s) during construction of the Project.
- 7) In the absence of a PLA, there is an increased likelihood of jurisdictional disputes among unions or of conflict between unionized and non-unionized workers on the Project that could have a potentially material adverse effect on the time, cost, or quality of work performed on the Project.

Contract Number
County

8) This project presents specific safety concerns to the traveling public and a PLA, will ensure labor force continuity and stability, decreasing the length of the safety concern.

9) Use of a PLA is expected to result in improved access to skilled labor, improved efficiency, or improved safety performance on the Project.

10) Use of a PLA on the Project is not expected to have a material adverse effect on the competitive bidding process.

11) Use of a PLA on the Project is not expected to have a material adverse effect on the ability of the Department to achieve other Departmental goals (e.g., utilization of disadvantaged businesses, utilization of Illinois domiciled businesses, development of competitive vendor alternatives over time, etc.).

12) There are other material considerations favoring or disfavoring use of a PLA on this Project as follows:

Based upon the identified considerations, we recommend that you approve use of a PLA on this Project. Upon your approval, the Department shall undertake to negotiate in good faith a PLA with the relevant labor organization(s), and shall include in all necessary bid specifications and other documents information regarding the actual or form of PLA that is binding upon all contractors and their employees.

Agreed:

{Division Chief} (Date)

Agreed:

{Bureau of Design & Environment} (Date)

Agreed:

{Regional Engineer} (Date)

Approved:

Gary Hannig, Secretary (Date)

FHWA concurrence in the PLA for the above mentioned contract.

Division Administrator FHWA (Date)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Ann L. Schneider, Secretary

PROJECT LABOR AGREEMENTS



Illinois Department of Transportation

Revised 01/01/13

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**STATE OF ILLINOIS
PROJECT LABOR AGREEMENTS**

- **Definition of (Project Labor Agreement)** – A Project Labor Agreement is a comprehensive pre-hire collective bargaining agreement that is negotiated between a project's owner (a state for example) and an appropriate labor organization (an area or state building and construction trades council) which sets out the basic terms and work conditions for that particular project.
- **Intent of a Project Labor Agreement** – A Project Labor Agreement's intent is to ensure the efficient, timely and most cost-effective completion of a construction project.
- **General Provisions Contained In a Project Labor Agreement**
 - A skilled and trained workforce is available through the craft's hiring halls.
 - Work schedules and general terms for labor are made uniform among the crafts.
 - Monthly meetings established throughout the project with the trade unions and contractors to help coordinate manpower and settle disputes.
 - Dispute resolution procedures are put into place addressing contractual and jurisdictional disputes.
 - Ensures a timely completion of the project with no work stoppages.
 - Levels the playing field for potential bidders.
 - Prevailing wage laws are applied to wage rates and fringe benefits.
- **History of the Project Labor Agreement** – Project Labor Agreements (PLAs) have a long history of use in the construction industry dating back before World War II. PLAs have been used on federal construction projects since the 1930s. Some examples include the Grand Coulee Dam 1937-1938, Kennedy Space Center and Nuclear missile sites.

In February of 1993, President Clinton signed Executive Order 12836, which revoked Executive Order 12818 issued in October of 1992 by President Bush that prohibited the use of PLAs on federal construction contracts. In June of 1997, President Clinton issued a presidential memorandum for the Heads of Executive Departments and Agencies expressing his support for the use of PLAs and encouraging their use within the federal government. President Clinton asked department heads to consider their use on a project-by-project basis for use on large scale projects where cost savings, efficiency and quality could be advanced.

On February 6, 2009, President Obama signed Executive Order 13502 allowing the use of PLAs by Executive Agencies on projects where federal funds will be obligated in excess of \$25 million. This order revokes Executive Orders 13202 and 13208, signed by President George W. Bush in 2001, and which prohibited the use of PLAs on federally-funded construction projects. President Obama's Executive Order lists the same advantages and the same requirements for a PLA that IDOT has recognized and required for many years. Importantly, the use of PLAs is not precluded for projects receiving federal financial assistance. Illinois received the first PLA granted on a federal-aid project under the Obama administration. (See Attachments A-E for complete text of Executive Orders referenced herein.)

- **History of the Project Labor Agreement in Illinois** – Project Labor Agreements have been used on a limited basis since 1992. The first agreement was implemented on the Supermax Prison project in Joliet, Illinois. The agreement was negotiated by the Building & Construction Trades Council, the Builder's Association and the Capital Development Board (state of Illinois). The agreements have been used on a project-by-project basis when they meet the criteria for their use.

In May of 2003, the Governor issued an executive order on Project Labor Agreements. The executive order allows a state department, agency, authority, board or instrumentality, which is under the control of the Governor, to include a PLA on a public works project where said department, agency, authority, board or instrumentality has determined that such agreement advances the state's interests of cost, efficiency, quality, safety, timeliness, skilled labor force, labor stability or the state's policy to advance minority- and female-owned businesses and minority and female employment.

After months of experience with Executive Order 2003-13, it became apparent that a statewide PLA committee needed to be established to provide better communication and efficiency between the state of Illinois and Labor. As a result, beginning February 25, 2005 an Illinois AFL-CIO Statewide Project Labor Agreement Committee was created.

On March 31, 2010, Executive Order 2010-03 was issued by Governor Pat Quinn which supersedes Executive Order 2003-13.

The Project Labor Agreements Act (30 ILCS 571) became effective July 27, 2011. Additional diversity language and reporting provisions were included.

- **Criteria for Use of a Project Labor Agreement**

- project size
- complexity
- length of project
- disruption to the public
- impact on quality of life
- availability of skilled workforce
- history of workforce harmony
- cost savings from use of a PLA
- geographical area (benefit to the state for keeping payrolls within the state)
- request by Using Agencies
- other factors as determined by the department

- **Strategy for Use of Project Labor Agreements**

- Continue to meet with the 21 Building and Construction Trades Councils promoting the use of PLAs on projects that meet the criteria for their use.
- Meet with AFL-CIO and other labor organizations at their quarterly meetings.
- Meet with other Using Agencies including the Capital Development Board to share language and discuss the benefits of PLAs.

**ILLINOIS AFL-CIO BUILDING & CONSTRUCTION TRADES
STATEWIDE PROJECT LABOR AGREEMENT COMMITTEE**

On May 7, 2003 Executive Order 2003-13 was signed allowing the use of Project Labor Agreements on a project-by-project basis for a state department, an agency, an authority, a board or instrumentality, which is under the control of the Governor. The Governor ordered that Project Labor Agreements should be utilized on a public works project where said department, agency, authority, board or instrumentality had determined that such agreement advances the state's interests.

After months of experience with Executive Order 2003-13, it became apparent that a statewide PLA committee needed to be established to provide better communication and efficiency between the state of Illinois and Labor.

As a result, beginning February 25, 2005 an Illinois AFL-CIO Statewide Project Labor Agreement Committee was created. The PLA committee members will:

- Meet as determined by the Illinois AFL-CIO. The meeting will be chaired by an officer (or their designee) of the Illinois AFL-CIO.
- Be comprised of one authorized representative from each craft from the Illinois Building and Construction Trades.
- Seek input from and work in concert with the twenty-one (21) Illinois Building and Construction Trades councils.
- Will have full authority and responsibility to attend statewide PLA committee meetings and to negotiate PLAs with the state of Illinois; to sign PLAs with the state of Illinois; and, to have decision-making capabilities on any and all matters which may arise regarding Executive Order 2003-13 on behalf of their respective craft.
- Promulgate PLA committee procedures and rules as necessary in order to conduct business in an efficient and respectful manner and to bring a unified bargaining team to the PLA negotiating process.

On March 31, 2010, Executive Order 2003-13 was superseded by Executive Order 2010-03.

The Project Labor Agreements Act (30 ILCS 571) became effective July 27, 2011. Additional diversity language and reporting provisions were included.

FINANCE

(30 ILCS 571/) Project Labor Agreements Act.

(30 ILCS 571/1)

Sec. 1. Short title. This Act may be cited as the Project Labor Agreements Act. (Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/5)

Sec. 5. Findings.

(a) The State of Illinois has a compelling interest in awarding public works contracts so as to ensure the highest standards of quality and efficiency at the lowest responsible cost.

(b) A project labor agreement, which is a form of pre-hire collective bargaining agreement covering all terms and conditions of employment on a specific project, can ensure the highest standards of quality and efficiency at the lowest responsible cost on appropriate public works projects.

(c) The State of Illinois has a compelling interest that a highly skilled workforce be employed on public works projects to ensure lower costs over the lifetime of the completed project for building, repairs, and maintenance.

(d) Project labor agreements provide the State of Illinois with a guarantee that public works projects will be completed with highly skilled workers.

(e) Project labor agreements provide for peaceful, orderly, and mutually binding procedures for resolving labor issues without labor disruption, preventing significant lost-time on construction projects.

(f) Project labor agreements allow public agencies to predict more accurately the actual cost of the public works project.

(g) The use of project labor agreements can be of particular benefit to complex construction projects.

(Source: P.A. 97-199, eff. 7-27-11; 97-813, eff. 7-13-12.)

(30 ILCS 571/10)

Sec. 10. Public works projects. On a project-by-project basis, a State department, agency, authority, board, or instrumentality that is under the control of the Governor shall include a project labor agreement on a public works project when that department, agency, authority, board, or instrumentality has determined that the agreement advances the State's interests of cost, efficiency, quality, safety, timeliness, skilled labor force, labor stability, or the State's policy to advance minority-owned and women-owned businesses and minority and female employment.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/15)

Sec. 15. Public works projects funded with federal funds. When it has been determined that a project labor agreement is appropriate, and in furtherance of the President's Executive Order 13502, the State department, agency, authority, board, or instrumentality responsible for awarding the project may include a project labor agreement on a public works project funded in whole or in part with federal funds.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/20)

Sec. 20. Negotiation of agreement. When it has been determined that a project labor agreement is appropriate for a particular public works project, the State department, agency, authority, board, or instrumentality responsible for awarding the project shall in good faith negotiate a project

labor agreement with labor organizations engaged in the construction industry. If the State department, agency, authority, board, or instrumentality and the labor organizations engaged in the construction industry ("the parties") cannot agree to the terms of the project labor agreement, the Governor shall appoint a designee to assist the parties in reaching an agreement.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/25)

Sec. 25. Contents of agreement. Pursuant to this Act, any project labor agreement shall:

- (a) Set forth effective, immediate, and mutually binding procedures for resolving jurisdictional labor disputes and grievances arising before the completion of work.
- (b) Contain guarantees against strikes, lockouts, or similar actions.
- (c) Ensure a reliable source of skilled and experienced labor.
- (d) For minorities and females as defined under the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, set forth goals for apprenticeship hours to be performed by minorities and females and set forth goals for total hours to be performed by underrepresented minorities and females.
- (e) Permit the selection of the lowest qualified responsible bidder, without regard to union or non-union status at other construction sites.
- (f) Bind all contractors and subcontractors on the public works project through the inclusion of appropriate bid specifications in all relevant bid documents.
- (g) Include such other terms as the parties deem appropriate.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/30)

Sec. 30. Publicly disclosed finding. Any decision to use a project labor agreement in connection with a public works project by a State department, agency, authority, board, or instrumentality shall be supported by a written, publicly disclosed finding by the department, agency, authority, board, or instrumentality, setting forth the justification for use of the project labor agreement.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/35)

Sec. 35. Compliance. All State departments, agencies, authorities, boards, and instrumentalities shall ensure that all public works projects are implemented in a manner consistent with the terms of this Act and are in full compliance with all statutes, regulations, and Executive Orders.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/37)

Sec. 37. Quarterly report; annual report. A State department, agency, authority, board, or instrumentality that has a project labor agreement in connection with a public works project shall prepare a quarterly report that includes workforce participation under the agreement by minorities and

females as defined under the Business Enterprise for Minorities, Females, and Persons with Disabilities Act. These reports shall be submitted to the Illinois Department of Labor. The Illinois Department of Labor shall submit to the General Assembly and the Governor an annual report that details the number of minorities and females employed under all public labor agreements within the State.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/40)

Sec. 40. Severability. Nothing in this Act shall be construed to contravene any state or federal law or to jeopardize the State's entitlement to federal funding. If any provision of this Act or its application to any person or circumstance is held invalid by any court of competent jurisdiction, this invalidity does not affect any other provision or application of this Act that can be given effect without the invalid provision or application. To achieve this purpose, the provisions of this Act are declared to be severable.

(Source: P.A. 97-199, eff. 7-27-11.)

(30 ILCS 571/45)

Sec. 45. (Amendatory provisions; text omitted).

(Source: P.A. 97-199, eff. 7-27-11; text omitted.)

(30 ILCS 571/99)

Sec. 99. Effective date. This Act takes effect upon becoming law.

(Source: P.A. 97-199, eff. 7-27-11.)



EXECUTIVE ORDER ON PROJECT LABOR AGREEMENTS (2010-03)

WHEREAS, the State of Illinois has a compelling interest in awarding public works contracts so as to ensure the highest standards of quality and efficiency at the lowest responsible cost; and

WHEREAS, a project labor agreement, which is a form of pre-hire collective bargaining agreement covering all terms and conditions of employment on a specific project, can ensure the highest standards of quality and efficiency at the lowest responsible cost on appropriate public works projects; and

WHEREAS, the State of Illinois has a compelling interest that a highly skilled workforce be employed on public works projects to ensure lower costs over the lifetime of the completed project for building, repairs and maintenance; and

WHEREAS, project labor agreements provide the State of Illinois with a guarantee that public works projects will be completed with highly skilled workers; and

WHEREAS, project labor agreements provide for peaceful, orderly and mutually binding procedures for resolving labor issues without labor disruption, preventing significant lost-time on construction projects; and

WHEREAS, project labor agreements allow public agencies to predict more accurately the actual cost of the public works project; and

WHEREAS, the use of project labor agreements can be of particular benefit to complex construction projects; and

THEREFORE, I, Pat Quinn, Governor of the State of Illinois, pursuant to the supreme executive authority of the Governor as set forth in Article V, Section 8 of the Illinois Constitution, do hereby order as follows:

1. On a project-by-project basis, a State department, agency, authority, board or instrumentality, which is under the control of the Governor, shall include a project labor agreement on a public works project where said department, agency, authority, board or instrumentality has determined that such agreement advances the State's interests of cost, efficiency, quality, safety, timeliness, skilled labor force, labor stability or the State's policy to advance minority- and women-owned businesses and minority and female employment.
2. Where it has been determined that a project labor agreement is appropriate, and in furtherance of the President's Executive Order 13502, the State department, agency, authority, board or instrumentality responsible for awarding the project may include a project labor agreement on a public works project funded in whole or in part with Federal funds.
3. Where it has been determined that a project labor agreement is appropriate for a particular public works project, the State department, agency, authority, board or instrumentality responsible for awarding the project shall in good faith negotiate a project labor agreement with labor organizations engaged in the construction industry. In the event that the State department, agency, authority, board or instrumentality and the labor organizations engaged in the construction industry ("the parties") cannot agree to the terms of the project labor agreement, the Governor shall appoint a designee to assist the parties in reaching an agreement.
4. Pursuant to this Order, any project labor agreement:
 - a. shall set forth effective, immediate and mutually binding procedures for resolving jurisdictional labor disputes and grievances arising before the completion of work;
 - b. shall contain guarantees against strikes, lockouts, or similar actions;
 - c. shall ensure a reliable source of skilled and experienced labor;
 - d. shall further public policy objectives as to improved employment opportunities for minorities and women in the construction industry to the extent permitted by state and federal law;

- e. shall permit the selection of the lowest qualified responsible bidder, without regard to union or non-union status at other construction sites;
 - f. shall be made binding on all contractors and subcontractors on the public works project through the inclusion of appropriate bid specifications in all relevant bid documents; and
 - g. shall include such other terms as the parties deem appropriate.
5. Any decision to use a project labor agreement in connection with a public works project by a State department, agency, authority, board or instrumentality shall be supported by a written, publicly disclosed finding by such department, agency, authority, board or instrumentality, setting forth the justification for use of the project labor agreement.
 6. All State departments, agencies, authorities, boards and instrumentalities are hereby ordered to ensure that all public works projects are implemented in a manner consistent with the terms of this Order and are in full compliance with all statutes, regulations and Executive Orders.
 7. Nothing in this Executive Order shall be construed to contravene any state or federal law or to jeopardize the State's entitlement to federal funding. If any provision of this Executive Order or its application to any person or circumstance is held invalid by any court of competent jurisdiction, this invalidity does not affect any other provision or application of this Executive Order that can be given effect without the invalid provision or application. To achieve this purpose, the provisions of this Executive Order are declared to be severable.
 8. This Order supersedes Executive Order 2003-13.
 9. This Order shall be in full force and effect upon its filing with the Secretary of State.

Pat Quinn

Pat Quinn
Governor

Issued by the Governor: March 31, 2010
Filed with the Secretary of State: March 31, 2010



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Construction Program Guide

IDOT Project Labor Agreement Determination

Contract Number
County

To:

From:

Date:

Re:

In accordance with Executive Order 2003-13 (Blagojevich), it is recommended that a project labor agreement (PLA) be utilized for the above-captioned Project. This recommendation is based on the considerations indicated below.

1. The Project is being awarded and administered by IDOT (i.e., not by another governmental agency).
2. The Project is being constructed using state or local funds only (i.e., no federal funds).
3. The overall size, scope, sequencing, logistics or other aspects of the Project make it particularly challenging to manage, and use of a PLA is expected to help assure that the construction work is performed properly and efficiently under the circumstances.
4. The duration of construction activity on the Project is expected to exceed one construction season (i.e., 110 or more working days), or the nature of the Project results in a heightened need for labor force continuity and stability over a substantial period of time.
5. There is a firm construction completion date established for the Project thereby increasing the adverse consequences of any work stoppage or other labor disruption.
6. The time required to complete the Project is expected to extend beyond the expiration date of one or more existing collective bargaining agreements covering trades likely to be involved in the Project, thereby increasing the likelihood of work stoppage(s) or other labor disruption(s) during construction of the Project.
7. In the absence of a PLA, there is an increased likelihood of jurisdictional disputes among unions or of conflict between unionized and non-unionized workers on the Project that could have a potentially material adverse effect on the time, cost, or quality of work performed on the Project.

More Information

- [Contract Administration](#)

Contact

Julie Trunk
[Office of Program Administration](#)
202-366-4639
[E-mail Julie](#)

Construction Feedback
[E-mail Construction](#)

8. This project presents specific safety concerns to the traveling public and a PLA, will ensure labor force continuity and stability, decreasing the length of the safety concern.
9. Use of a PLA is expected to result in improved access to skilled labor, improved efficiency, or improved safety performance on the Project.
10. Use of a PLA on the Project is not expected to have a material adverse effect on the competitive bidding process.
11. Use of a PLA on the Project is not expected to have a material adverse effect on the ability of the Department to achieve other Departmental goals (e.g., utilization of disadvantaged businesses, utilization of Illinois domiciled businesses, development of competitive vendor alternatives over time, etc.).
12. There are other material considerations favoring or disfavoring use of a PLA on this Project as follows:

Based upon the identified considerations, we recommend that you approve use of a PLA on this Project. Upon your approval, the Department shall undertake to negotiate in good faith a PLA with the relevant labor organization(s), and shall include in all necessary bid specifications and other documents information regarding the actual or form of PLA that is binding upon all contractors and their employees.

Agreed: _____
{Division Chief} (Date)

Agreed: _____
{Bureau of Design & Environment} (Date)

Agreed: _____
{Regional Engineer} (Date)

Approved: _____
Gary Hannig, Secretary (Date)

FHWA concurrence in the PLA for the above mentioned contract.

Division Administrator FHWA (Date)

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3. **Orders**

- [Executive Order 13502 of February 6, 2009](#)

4. **Policy**

- [FHWA Interim Guidance - May 7, 2010](#) (Note: FHWA Division Offices should forward a copy of the State's justification and PLA to Michael Harkins (HCC-30) and Julie Trunk (HIPA-30) for review. A recommendation will then be forwarded to the Deputy Administrator for a final determination.)

Guidance

1. **General Information**

- [Illinois Department of Transportation Project Labor Agreement Master Plan \(.pdf\)](#)
- [Illinois Department of Transportation PLA Project Determination Criteria](#)

2. **Training**

- None

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United States Department of Transportation - **Federal Highway Administration**

FAP Route 729(US 136)
Project ACF-0729(014)
Section 36(W,RS-1) & 34Z-2(W,RS)
Vermilion County
Contract No. 90939

Illinois Department of Transportation
PROJECT LABOR AGREEMENT

This Project Labor Agreement ("PLA") is entered into this _____ day of _____, by and between the Illinois Department of Transportation ("IDOT" or "Department") in its proprietary capacity, and each relevant Illinois AFL-CIO Building Trades Council made signatory hereto by the Illinois AFL-CIO Statewide Project Labor Agreement Committee on behalf of itself and each of its affiliated members (individually and collectively, the "Union"). This PLA shall apply to Construction Work (as defined herein) to be performed by IDOT's Prime Contractor and each of its relevant subcontractors of whatever tier ("Subcontractor" or "Subcontractors") on ~~the project~~ (hereinafter, the "Project").

ARTICLE 1 - INTENT AND PURPOSES

- 1.1. This PLA is entered into in furtherance of Illinois Executive Order No. 2010-03 and P.A. 097-0199. It is mutually understood and agreed that the terms and conditions of this PLA are intended to promote the public interest in obtaining timely and economical completion of the Project by encouraging productive and efficient construction operations; by establishing a spirit of harmony and cooperation among the parties; and by providing for peaceful and prompt settlement of any and all labor grievances or jurisdictional disputes of any kind without strikes, lockouts, slowdowns, delays or other disruptions to the prosecution of the work.
- 1.2. As a condition of the award of the contract for performance of work on the Project, IDOT's Prime Contractor and each of its Subcontractors shall be required to sign a "Contractor Letter of Assent", in the form attached hereto as Exhibit A, prior to commencing Construction Work on the Project. Each Union affiliate and separate local representing workers engaged in Construction Work on the Project in accordance with this PLA are bound to this agreement by the Illinois AFL-CIO Statewide Project Labor Agreement Committee which is the central committee established with full authority to negotiate and sign PLAs with the State on behalf of all respective crafts. Upon their signing the Letter of Assent, the Prime Contractor, each Subcontractor, and the individual Unions shall thereafter be deemed a party to this PLA. No party signatory to this PLA shall, contract or subcontract, nor permit any other person, firm, company or entity to contract or subcontract for the performance of Construction Work for the Project to any person, firm, company or entity that does not agree in writing to become bound by the terms of this PLA prior to commencing such work.
- 1.3. It is understood that the Prime Contractor(s) and each Subcontractor will be considered and accepted by the Unions as separate employers for the purposes of collective bargaining, and it is further agreed that the employees working under this PLA shall constitute a bargaining unit separate and distinct from all others. The Parties hereto also agree that this PLA shall be applicable solely with respect to this Project, and shall have no bearing on the interpretation of any other collective bargaining agreement or as to the recognition of any bargaining unit other than for the specific purposes of this Project.

FAP Route 728(US 136)
Project ACF-0729(014)
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Vermillion County
Contract No. 80939

- 1.8. In the event that the applicable collective bargaining agreement between a Prime Contractor and the Union or between the Subcontractor and the Union expires prior to the completion of this Project, the expired applicable contract's terms will be maintained until a new applicable collective bargaining agreement is ratified. The wages and fringe benefits included in any new applicable collective bargaining agreement will apply on and after the effective date of the newly negotiated collective bargaining agreement, except to the extent wage and fringe benefit retroactivity is specifically agreed upon by the relevant bargaining parties.

ARTICLE II - APPLICABILITY, RECOGNITION, AND COMMITMENTS

- 2.1 The term Construction Work as used herein shall include all "construction, prosecution, completion, or repair" work performed by a "laborer or mechanic" at the "site of the work" for the purpose of "building" the specific structures and improvements that constitute the Project. Terms appearing within quotation marks in the preceding sentence shall have the meaning ascribed to them pursuant to 29 CFR Part 5.
- 2.2 By executing the Letters of Assent, Prime Contractor and each of its Subcontractors recognizes the Unions signatory to this PLA as the sole and exclusive bargaining representatives for their craft employees employed on the jobsite for this Project. Unions who are signatory to this PLA will have recognition on the Project for their craft.
- 2.3 The Prime Contractor and each of its Subcontractors retains and shall be permitted to exercise full and exclusive authority and responsibility for the management of its operations, except as expressly limited by the terms of this PLA or by the terms and conditions of the applicable collective bargaining agreement.
- 2.4 Except to the extent contrary to an express provision of the relevant collective bargaining agreement, equipment or materials used in the Project may be pre-assembled or pre-fabricated, and there shall be no refusal by the Union to handle, transport, install, or connect such equipment or materials. Equipment or materials delivered to the job-site will be unloaded and handled promptly without regard to potential jurisdictional disputes; any such disputes shall be handled in accordance with the provisions of this PLA.
- 2.5 Unions commit to furnishing qualified and skilled craft persons as required by the Prime Contractor and its Subcontractors in fulfillment of their obligations to complete the Project. In order to promote the long-term development of a skilled and knowledgeable work force, the parties are encouraged to utilize apprentices to the maximum extent permitted by the applicable collective bargaining agreement.

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Project ACF-0729(014)
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Vernilion County
Contract No. 90939

- 3.4 Not later than the earlier of (a) five business days following the pre-job conference, or (b) commencement of Construction Work, the Unions and Prime Contractor (on behalf of itself and all its subcontractors of whatever tier) shall confer and jointly designate a slate of three (3) permanent arbitrators (each a "Permanent Arbitrator") for the purpose of hearing disputes pursuant to Articles V and VII of this PLA. The slate of Permanent Arbitrators shall be selected from among the following individuals: Thomas F. Gibbons, Robert Perkovich, Byron Yaffee, and Glenn A. Zipp. In the event that the Unions and Prime Contractor are not able to agree on a full slate of three Permanent Arbitrators, the Department, after consultation with the Unions and Prime Contractor, shall designate such additional Permanent Arbitrators as may be necessary to establish the full slate. A single Permanent Arbitrator shall be selected from the slate of three on a rotating basis to adjudicate each arbitrable matter as it arises. In the event a Permanent Arbitrator is not available to adjudicate a particular matter in the order of rotation, the arbitration assignment shall pass to the next available Permanent Arbitrator.

ARTICLE IV - HOURS OF WORK AND GENERAL CONDITIONS

- 4.1 The standard work day for Construction Work on the Project shall be an established consecutive eight (8) hour period between the hours of 7:00 a.m. and 5:00 p.m. with one-half hour designated as unpaid period for lunch. The standard work week shall be five (5) consecutive days of work commencing on Monday. Starting time shall be established at the pre-job conference, and shall be applicable to all craft employees on the Project unless otherwise expressly agreed in writing. In the event Project site or other job conditions dictate a change in the established starting time and/or a staggered lunch period for portions of the Project or for specific crafts, the Prime Contractor, relevant Subcontractors and business managers of the specific crafts involved shall confer and mutually agree to such changes as appropriate.
- If proposed work schedule changes cannot be mutually agreed upon between the parties, the hours fixed at the time of the pre-job meeting shall prevail.
- 4.2 Shift work may be established and directed by the Prime Contractor or relevant Subcontractor as reasonably necessary or appropriate to fulfill the terms of its contract with the Department. If used, shift hours, rates and conditions shall be as provided in the applicable collective bargaining agreement.
- 4.3 The parties agree that chronic and/or unexcused absenteeism is undesirable and must be controlled in accordance with procedures established by the applicable collective bargaining agreement. Any employee disciplined for absenteeism in accordance with such procedures shall be suspended from all work on the Project for not less than the maximum period permitted under the applicable collective bargaining agreement.

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Section 36(W,RS-1) & 34Z-2(W,RS)
Vermillion County
Contract No. 90930

5.2.B. Step 2. In the event that the Steward and the contractors' representatives at the job-site cannot reach agreement within two (2) working days after a meeting is arranged and held, the matter shall be referred to the Union Business Manager and to executive representatives of the Prime Contractor and relevant Subcontractor.

5.2.C. Step 3. In the event the dispute is not resolved within five (5) working days after completion of Step 2, the relevant parties shall request a Permanent Arbitrator as determined in accordance with paragraph 3.4 of this PLA, who shall, within ten (10) working days, hear the grievance and make a written decision. Such decisions shall be final and binding on all parties. The parties shall each pay the expense of their own representative. The expense of the Permanent Arbitrator shall be divided equally between (1) the Prime Contractor and/or relevant Subcontractor, and (2) the involved Union.

5.3 Any failure of a party to comply fully with such final and binding decision of the Permanent Arbitrator may result in removal of the non-complying party from the site, in a holdback from the Prime Contractor or Subcontractor of any amounts awarded, or in such other relief as the Department may reasonably determine is necessary to promote final resolution of the dispute.

5.4 In the event any dispute or grievance should arise, the parties expressly agree that it shall be resolved without occurrence of any strike, work stoppage, slow-down or other prohibited activities as provided in Article VII of this PLA. Individuals or parties violating this section shall be subject to immediate discharge or other discipline.

ARTICLE VI - JURISDICTIONAL DISPUTES

6.1 As used in this Agreement, the term "jurisdictional dispute" shall be defined as any dispute, difference or disagreement involving the assignment of particular work to one class or craft of employees rather than to a different class or craft of employees, regardless of that Contractor's contractual relationship to any other employer, contractor, or organization on the site.

6.2 It is agreed by and between the parties to this Agreement that any and all jurisdictional disputes shall be resolved in the following manner; each of the steps hereinafter listed shall be initiated by the parties in sequence as set forth:

(a) Negotiation by and between the Local Business Representative of the disputing Union and Employer shall take place within two (2) business days. Business days are defined as Monday through Friday excluding contract holidays. Such negotiations shall be pursued until it is apparent that the dispute cannot be resolved at the local level.

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- (3) If the Arbitrator finds that a previous decision of record governs the case, the Arbitrator shall apply the decision of record in rendering his decision except under the following circumstances. After notice to the other parties to the dispute prior to the hearing that it intends to challenge the decision of record, if a trade challenging the decision of record is able to demonstrate that the recognized and established prevailing practice in the locality of the work has been contrary to the applicable decision of record, and that historically in that locality the work in dispute has not been performed by the other craft or crafts, the Arbitrator may rely on such prevailing practice rather than the decision of record.

If the craft relying on the decision of record demonstrates that it has performed the work in dispute in the locality of the job, then the Arbitrator shall apply the decision of record in rendering his decision. If the Arbitrator finds that a craft has improperly obtained the prevailing practice in the locality through raiding, the undercutting of wages or by the use of vertical agreements, the Arbitrator shall rely on the decision of record rather than the prevailing practice in the locality.

- (4) If no decision of record is applicable, the Arbitrator shall then consider the established trade practice in the industry and prevailing practice in the locality; and
- (5) Only if none of the above criteria is found to exist, the Arbitrator shall then consider that because efficiency, cost or continuity and good management are essential to the well being of the industry, the interest of the consumer or the past practice of the employer shall not be ignored.

The Arbitrator shall set forth the basis for his decision and shall explain his findings regarding the applicability of the above criteria. If lower-ranked criteria are relied upon, the Arbitrator shall explain why the higher-ranked criteria were not deemed applicable. The Arbitrator's decision shall only apply to the job in dispute.

- (6) Agreements of record are applicable only to the party's signatory to such agreements. Decisions of record are applicable to all trades.
- (7) The Arbitrator is not authorized to award back pay or any other damages for a mis-assignment of work. Nor may any party bring an independent action for back pay or any other damages, based upon a decision of an Arbitrator.

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Section 36(W,RS-1) & 342-2(W,RS)
Vermillion County
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- 7.4 Upon notification of violations of this Article, the principal officer or officers of the local area Building and Construction Trades Council, and the Illinois AFL-CIO Statewide Project Labor Agreement Committee as appropriate, will immediately instruct, order and use their best efforts to cause the affiliated union or unions to cease any violations of this Article. A Trades Council and the Committee otherwise in compliance with the obligations under this paragraph shall not be liable for unauthorized acts of its affiliates.
- 7.5 In the event that activities in violation of this Article are not immediately halted through the efforts of the parties, any aggrieved party may invoke the special arbitration provisions set forth in paragraph 7.8 of this Article.
- 7.6 Upon written notice to the other involved parties by the most expeditious means available, any aggrieved party may institute the following special arbitration procedure when a breach of this Article is alleged:
- 7.6.A The party invoking this procedure shall notify the individual designated as the Permanent Arbitrator pursuant to Article III of the nature of the alleged violation; such notice shall be by the most expeditious means possible. The initiating party may also furnish such additional factual information as may be reasonably necessary for the Permanent Arbitrator to understand the relevant circumstances. Copies of any written materials provided to the arbitrator shall also be contemporaneously provided by the most expeditious means possible to the party alleged to be in violation and to all other involved parties.
- 7.6.B Upon receipt of said notice the Permanent Arbitrator shall set and hold a hearing within twenty-four (24) hours if it is contended the violation is ongoing, but not before twenty-four (24) hours after the written notice to all parties involved as required above.
- 7.6.C The Permanent Arbitrator shall notify the parties by facsimile or any other effective written means, of the place and time chosen by the Permanent Arbitrator for this hearing. Said hearing shall be completed in one session. A failure of any party or parties to attend said hearing shall not delay the hearing of evidence or issuance of an Award by the Permanent Arbitrator.
- 7.6.D The sole issue at the hearing shall be whether a violation of this Article has, in fact, occurred. An Award shall be issued in writing within three (3) hours after the close of the hearing, and may be issued without a written opinion. If any party desires a written opinion, one shall be issued within fifteen (15) days, but its issuance shall not delay compliance with, or enforcement of, the Award. The Permanent Arbitrator may order cessation of the violation of this Article, and such Award shall be served on all parties by hand or registered mail upon issuance.

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Vermillion County
Contract No. 90939

- 8.5 The failure or refusal of a party to exercise its rights hereunder in one or more instances shall not be deemed a waiver of any such rights in respect of a separate instance of the same or similar nature.

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APPENDIX I
GROUNDWATER ORDINANCE

**CORRECTIVE ACTION PLAN
AND BUDGET AMENDMENT
ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS**

ORDINANCE NUMBER 2020-0-10

AN ORDINANCE PROHIBITING THE USE OF GROUNDWATER AS A POTABLE WATER SUPPLY BY THE INSTALLATION OR USE OF POTABLE WATER SUPPLY WELLS OR BY ANY OTHER METHOD WITHIN A LIMITED AREA OF THE CITY

WHEREAS, certain properties in the City of Gibson City have been used over a period of time for commercial/industrial purposes; and

WHEREAS, because of said use, concentrations of certain chemical constituents in the groundwater beneath the designated parcels within the City may exceed Class I groundwater quality standards for potable resource groundwater as set forth in 35 Illinois Administrative Code 620 or Tier I remediation objectives as set forth in 35 Illinois Administrative Code 742; and

WHEREAS, the City of Gibson City desires to limit potential threats to human health from groundwater contamination while facilitating the redevelopment and productive use of properties that are the source of said chemical constituents;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF GIBSON CITY, ILLINOIS:

Section One. Use of groundwater as a potable water supply prohibited.

The use or attempted use of groundwater as a potable water supply from within the area shown on Exhibit A, a copy of such being attached hereto and made a part hereof, by the installation of wells or by any other method, is hereby prohibited. This prohibition expressly applies to the City of Gibson City.

Section Two. Penalties.

Any person violating the provisions of this ordinance shall be subject to a fine of not less than \$ 75 or more than \$ 750 for each violation.

Section Three. Definitions.

"Person" is any individual, partnership, co-partnership, firm, company, limited liability company, corporation, association, joint stock company, trust, estate, political subdivision, or any other legal entity, or their legal representatives, agents or assigns.

"Potable water" is any water used for human or domestic consumption, including, but not limited to, water used for drinking, bathing, swimming, washing dishes, or preparing foods.

Section Five. Repealer.

All ordinances or parts of ordinances in conflict with this ordinance are hereby repealed insofar as they are in conflict with this ordinance.

Section Six. Severability.

If any provision of this ordinance or its application to any person or under any circumstances is adjudged invalid, such adjudication shall not affect the validity of the ordinance as a whole or of any portion not adjudged invalid.

Section Seven. Effective date.

This ordinance shall be in full force and effect from and after its passage, approval and publication as required by law.

ADOPTED: Carla Moxley
(Date)

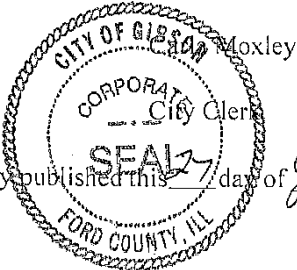
7/27/2020

APPROVED: [Signature]
(Date)

7/27/2020

Daniel Dickey

Mayor



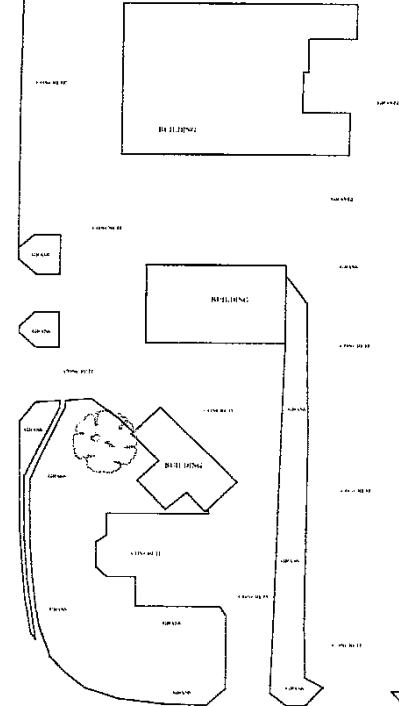
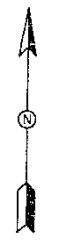
Officially published this 27 day of July 2020.

AYES 5

NAYS —

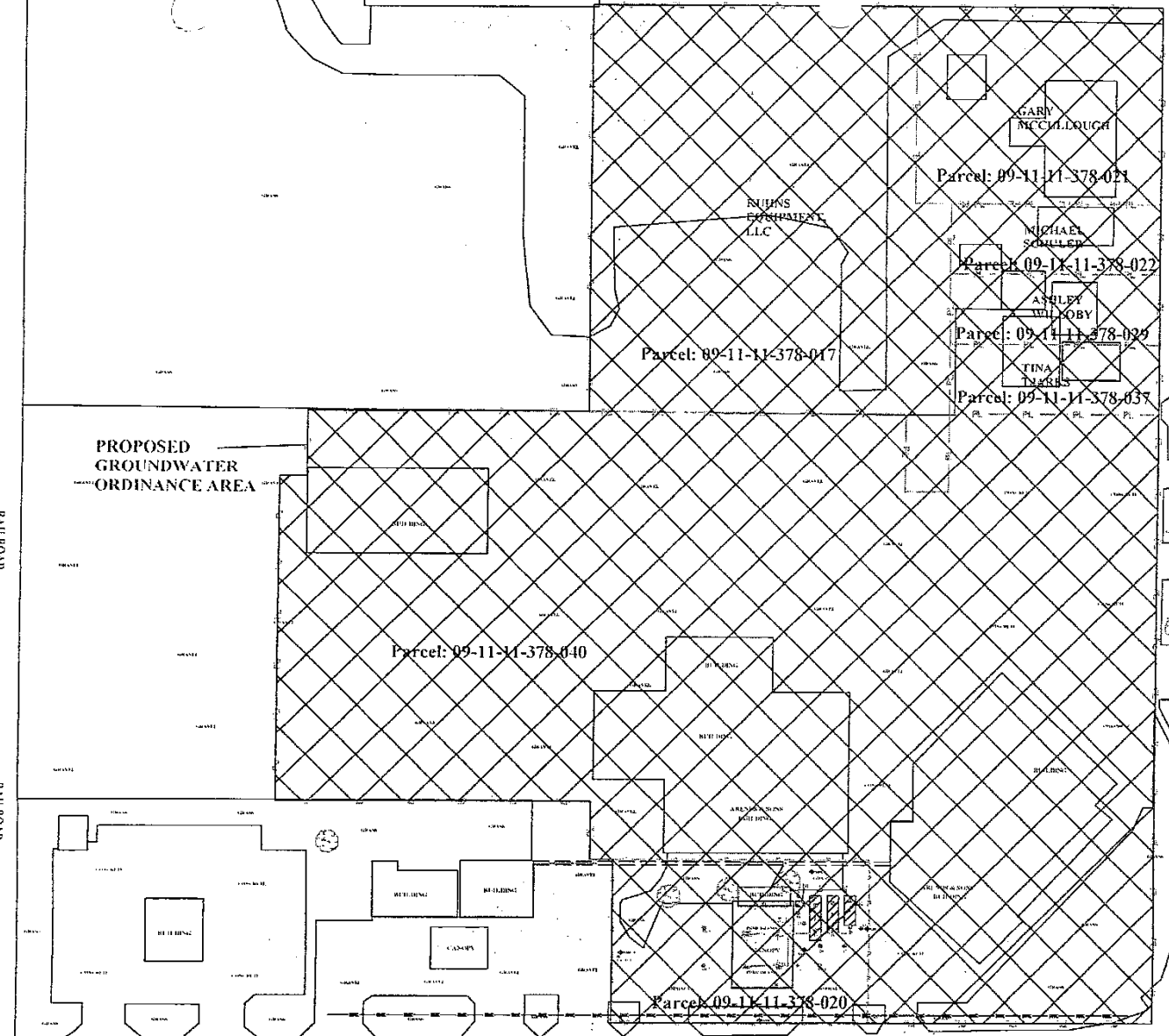
ABSENT 3

Exhibit A



SANGAMON AVENUE

SANGAMON AVENUE



GARY
MCCLOUGH
Parcel: 09-11-11-378-021

MICHAEL
SCHULZ
Parcel: 09-11-11-378-022

ASHLEY
WILCOBY
Parcel: 09-11-11-378-023

TINA
MARRS
Parcel: 09-11-11-378-037

MILINS
EQUIPMENT
LLC
Parcel: 09-11-11-378-017

Parcel: 09-11-11-378-040

Parcel: 09-11-11-378-020

PROPOSED
GROUNDWATER
ORDINANCE AREA

RAILROAD

RAILROAD

CWM COMPANY, INC.
701 W. SOUTH GRAND
SPRINGFIELD, IL. 62704
(217) 522-8001

ABP PROPERTIES, LLC
GIBSON CITY, ILLINOIS
INCIDENT #2016-0917
FORD COUNTY

PROPOSED
GROUNDWATER
ORDINANCE LOCATION
MAP

DATE: 8/2/19
REVISED DATE: 3/27/2020
SCALE 1"=110'
DRAWING: 0014

DRAWN BY: MJS
REVISED BY: JKK
REVIEWED BY: CLR
GWORD.DWG

000229



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397
JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

(217) 524-3300

CERTIFIED MAIL

7017 2680 0001 0206 2794

FEB 09 2022

Yogi Bhardwaj
ABP Properties, LLC
159 North Greenleaf Street, Suite #2
Gurnee, IL 60031

Re: 0530100002 -- Ford County
Gibson City / ABP Properties, LLC
120 West 1st Street
Leaking UST Incident 20160917
Leaking UST Technical File

Dear Yogi Bhardwaj:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan (plan) submitted for the above-referenced incident. This plan, dated October 7, 2021, was received by the Illinois EPA on October 12, 2021. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

Pursuant to Sections 57.7(b)(2) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(a), the plan is approved. The activities proposed in the plan are appropriate to demonstrate compliance with Title XVI of the Act. Please note that all activities associated with the remediation of this release proposed in the plan must be executed in accordance with all applicable regulatory and statutory requirements, including compliance with the proper permits.

In addition, the budget is modified pursuant to Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b). Based on the modifications listed in Section 2 of Attachment A, the amounts listed in Section 1 of Attachment A have been approved. Please note that the costs must be incurred in accordance with the approved plan. Be aware that the amount of payment from the Fund may be limited by Sections 57.7(c), 57.8(d), 57.8(e), and 57.8(g) of the Act, as well as 35 Ill. Adm. Code 734.630 and 734.655.

If the owner or operator agrees with the Illinois EPA's modifications, submittal of an amended budget is not required (Section 57.7(c) of the Act).

Further, pursuant to 35 Ill. Adm. Code 734.145, it is required that the Illinois EPA be notified of field activities prior to the date the field activities take place. This notice must include a description of the field activities to be conducted; the name of the person conducting the activities; and the date, time, and place the activities will be conducted and

2125 S. First Street, Champaign, IL 61820 (217) 278-5800
1101 Eastport Plaza Dr., Suite 100, Collinsville, IL 62234 (618) 346-5120
9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000
595 S. State Street, Elgin, IL 60123 (847) 608-3131

2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022
4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

Page 2

shall be made to EPA.FieldNotifications@illinois.gov. This notification of field activities must be provided at least two weeks prior to the scheduled field activities.

Pursuant to Sections 57.12(c) and (d) of the Act and 35 Ill. Adm. Code 734.100 and 734.125, the Illinois EPA requires that an amended Corrective Action Plan or Corrective Action Completion Report, as applicable, be submitted within 30 days after completion of the plan to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

If, within four years after the approval of this plan, compliance with the applicable remediation objectives has not been achieved and a Corrective Action Completion Report has not been submitted, the Illinois EPA requires the submission of a status report pursuant to Section 57.7(b)(6) of the Act.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

If you have any questions or need further assistance, please contact the undersigned at (217) 785-1858 or at Scott.Rothering@illinois.gov.

Sincerely,



Scott Rothering
Project Manager
Leaking Underground Storage Tank Section
Bureau of Land

SP:TB **TB**

Attachments: Attachment A
Appeal Rights

c: Carol Rowe, CWM Company, Inc. (electronic copy)
BOL File

Attachment A

Re: 0530100002 -- Ford County
Gibson City / ABP Properties, LLC
120 West 1st Street
Leaking UST Incident 20160917
Leaking UST Technical File

SECTION 1

As a result of Illinois EPA's modification(s) in Section 2 of this Attachment A, the following amounts are approved:

\$3,993.45	Drilling and Monitoring Well Costs
\$5,971.79	Analytical Costs
\$72,822.34	Remediation and Disposal Costs
\$0.00	UST Removal and Abandonment Costs
\$29,942.24	Paving, Demolition, and Well Abandonment Costs
\$27,515.22	Consulting Personnel Costs
\$1,862.40	Consultant's Materials Costs

Handling charges will be determined at the time a billing package is reviewed by the Illinois EPA. The amount of allowable handling charges will be determined in accordance with Section 57.1(a) of the Environmental Protection Act (415 ILCS 5) (Act) and 35 Illinois Administrative Code (35 Ill. Adm. Code) 734.635.

In accordance with an email from CWM Company dated January 27, 2022, the budget is requesting \$300.00 for VOC AIR by GC/MS, not VOC – Water. The budget is also requesting \$25.00 for regulator rental, not Vapor Intrusion Sampling. The budget is further requesting \$35.00 for air canister rental, not regulator rental.

SECTION 2

1. \$20,825.84 for costs for Excavation, Transportation, and Disposal of contaminated soil, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The budget includes costs for the excavation, transportation, and disposal of 967.66 cubic yards of contaminated soil. The corrective action plan indicates 698 cubic yards of contaminated soil above Tier 2 remediation objectives is to be removed from the site. In an email received January 27, 2022, CWM Company agreed the amount in the budget is erroneous, and the correct number of cubic yards to be removed is 698.

Based upon the above deduction, a total of \$20,825.84 was deducted from the Remediation and Disposal Costs Form.

2. \$7,307.79 for costs for Backfilling the Excavation, which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

The budget includes costs for the backfilling of 967.66 cubic yards of contaminated soil. The corrective action plan indicates 698 cubic yards of contaminated soil above Tier 2 remediation objectives is to be removed from the site. Therefore, the actual amount to be backfilled is 698 cubic yards. In an email received January 27, 2022, CWM Company agreed the amount in the budget is erroneous, and the correct number of cubic yards to be backfilled is 698.

Based upon the above deduction, a total of \$7,307.79 was deducted from the Remediation and Disposal Costs Form.

3. \$789.60 for site investigation or corrective action costs for Canopy Removal that are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The budget requests \$10,000.00 for Canopy Removal. An estimate submitted by the consultant indicates the cost of removing the canopy is \$9,210.40. Therefore, a total of \$789.60 was deducted from the Paving, Demolition, and Well Abandonment Costs Form.

4. \$352.26 for costs for Senior Professional Engineer (Reimbursement Review and Certification), which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

Additionally, the costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The Illinois EPA deducted the Senior Professional Engineer costs associated with a third billing package. This results in a deduction of \$352.26 from the Consulting Personnel Costs Form.

5. \$1,341.18 for costs for Senior Account Technician (Reimbursement Preparation), which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

Additionally, the costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The Illinois EPA deducted the Senior Account Technician costs associated with a third billing package. This results in a deduction of \$1,341.18 from the Consulting Personnel Costs Form.

6. \$121.94 for costs for Senior Administrative Assistant (Billing Package Preparation and Assembly), which lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities in excess of those necessary to meet the minimum requirements of Title XVI of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

Additionally, the costs are not reasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The Illinois EPA deducted the Senior Administrative Assistant costs associated with a third billing package. This results in a deduction of \$121.94 from the Consulting Personnel Costs Form.

7. Personnel Lacking Supporting Documentation

\$2,709.60 for costs for personnel hours requested under the Senior Project Manager title (TACO 2 or 3) that lack supporting documentation. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(cc). Since there is no supporting documentation of costs, the Illinois EPA cannot determine that costs will not be used for activities exceeding the minimum requirements of the Act. Therefore, such costs are not approved pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

In addition, without supporting documentation, the personnel hours for Senior Project Manager are unreasonable as submitted. Such costs are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(dd).

The proposed budget includes 12 hours at a Senior Project Manager rate for TACO 2 or 3. The proposed budget also includes 8 hours at a Senior Project Manager rate for Illinois EPA correspondence, discussion, document review, and tabulation of analytical results. In an email received by the Illinois EPA on February 7, 2022, CWM Company, Inc. states that the 12 hours included in the budget under the remediation category TACO 2 or 3 will be used to revise the remediation objectives and update the modeling. The 8 hours will be used to clarify proposed budget amounts, to correspond with the Illinois EPA after approval of the Corrective Action Plan but before development of the Corrective Action Completion Report, to tabulate the analytical results of the proposed soil, groundwater, and soil gas samples, and to update existing tables to identify those samples that have been removed or resampled. At present there are no plans to prepare an amended Corrective Action Plan. As such, the 12 hours included in the budget under the remediation category TACO 2 or 3 and some of the 8 hours included in the budget for Illinois EPA correspondence, discussion, document review, and tabulation of analytical results will be used to prepare the future Corrective Action Completion Report. The Illinois EPA has already approved 36 hours at an Engineer III rate and 4 hours at a Senior Draftsperson rate for preparation of the future Corrective Action Completion Report. The owner or operator has not demonstrated an additional 12 to 20 hours will be necessary or reasonable to prepare the future Corrective Action Completion Report.

Appeal Rights


An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Clerk of the Board
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
(312) 814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276
(217) 782-5544

 Environmental Consulting Services	0530100002 - Ford County ABP Properties, LLC Incident # 20160917 LUST Tech File	701 W. South Grand Avenue Springfield, IL 62704
		Phone: (217) 522-8001 Fax: (217) 522-8009

November 22, 2023

Mr. Scott Rothering, Project Manager
 LUST Section, Bureau of Land
 Illinois Environmental Protection Agency
 1021 North Grand Avenue East
 Springfield, IL 62794-9276

9589 0710 5270 0675 6612 44

RE: LPC # 0530100002 — Ford County
120 West 1st Street
Gibson City, Illinois
Incident Number: 2016-0917
LUST Technical Reports—Corrective Action Budget Amendment

Dear Mr. Rothering:

On behalf of ABP Properties, LLC, owner of the underground storage tanks formerly at the above-referenced site, we are submitting the attached Corrective Action Budget Amendment.

Because the Subpart H Maximum Payment amounts could not be met by any licensed contractor to perform the excavation, the job was put out for bid. This Corrective Action Budget Amendment addresses costs incurred attempting to find a contractor to perform the work for Subpart H Maximum Payment amounts, costs associated with putting the job out for bid, and the difference between the approved Subpart H Maximum Payment amount of \$72,822.34 and the winning bid of \$128,362.20.

If you have any questions or require additional information, please contact Mr. Matthew Saladino or me at (217) 522-8001.

Sincerely,



Carol L. Rowe, P.G.
 Senior Environmental Geologist

Enclosure

xc: Dr. Yogi Bhardwaj, *ABP Properties, LLC*
 Mr. and Mrs. Brandon & Tricia Slagel

RECEIVED

NOV 27 2023

IEPA/BOL

701 W. South Grand Avenue
 Springfield, IL 62704
 (217) 522-8001

400 West Jackson, Suite C
 Marion, IL 62959
 (618) 997-2238

0530100002 - Ford County
 ABP Properties, LLC
 Incident # 20160917
 LUST Tech File

Budget Summary

Choose the applicable regulation: 734 732

734	Free Product	Stage 1 Site Investigation	Stage 2 Site Investigation	Stage 3 Site Investigation	Corrective Action
Drilling and Monitoring Well Costs Form	\$	\$	\$	\$	\$
Analytical Costs Form	\$	\$	\$	\$	\$
Remediation and Disposal Costs Form	\$	\$	\$	\$	\$ 55,539.86
UST Removal and Abandonment Costs Form	\$	\$	\$	\$	\$
Paving, Demolition, and Well Abandonment Costs Form	\$	\$	\$	\$	\$
Consulting Personnel Costs Form	\$	\$	\$	\$	\$ 7,182.88
Consultant's Materials Costs Form	\$	\$	\$	\$	\$ 168.20
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable handling charges will be determined in accordance with the Handling Charges Form.				
Total	\$	\$	\$	\$	\$ 62,890.94

RECEIVED

NOV 27 2023

IEPA/BOL

Remediation and Disposal Costs Form

A. Conventional Technology

Excavation, Transportation, and Disposal of contaminated soil and/or the 4-foot backfill material removal during early action activities:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
698.00	57.17	\$39,904.66

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost
698.00	22.40	\$15,635.20

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard (\$)	Total Cost

B. Alternative Technology

Alternative Technology Selected:	
Number of Cubic Yards of Soil to Be Remediated	
Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

Remediation and Disposal Costs Form

C. Groundwater Remediation and/or Free Product Removal System

Total Non-Consulting Personnel Costs Summary Sheet (\$)	
Total Remediation Materials Costs Summary Sheet (\$)	
Total Cost of the System	

D. Groundwater and/or Free Product Removal and Disposal

Subpart H minimum payment amount applies.

Number of Gallons	Cost per Gallon (\$)	Total Cost (\$)

E. Drum Disposal

Subpart H minimum payment amount applies.

Number of Drums of Solid Waste	Cost per Drum (\$)	Total Cost (\$)
Number of Drums of Liquid Waste	Cost per Drum (\$)	Total Cost (\$)
Total Drum Disposal Costs		.00

Total Remediation and Disposal Costs:	\$55,539.86
--	--------------------

Consulting Personnel Costs Form

Employee Name	Personnel Title	Hours	Rate* (\$)	Total Cost
Remediation Category	Task			
	Senior Project Manager	8.00	147.95	\$1,183.60
CCA-Field	Search for Contractors for Subpart H Maximum Payment Amounts			
	Senior Project Manager	8.00	147.95	\$1,183.60
CCA-Field	Bidding Design / Specifications			
	Senior Project Manager	4.00	147.95	\$591.80
CCA-Field	Bid Process / Advertising / Bid Letting			
	Senior Admin. Assistant	2.00	66.58	\$133.16
CCA-Field	Bid Process / Advertising / Bid Letting			
	Senior Project Manager	6.00	147.95	\$887.70
CCA-Field	Bid Opening Selection / Bid Awards / EPA Documentation and Reporting			
	Senior Admin. Assistant	3.00	66.58	\$199.74
CCA-Field	IEPA Documentation and Reporting			
	Senior Project Manager	8.00	147.95	\$1,183.60
CCAP-Budget	Budget Amendment and Design and Development, IEPA/Client correspondence			
	Senior Prof. Engineer	2.00	192.33	\$384.66
CCAP-Budget	Budget Amendment review and Certification			
	Senior Admin. Assistant	2.00	66.58	\$133.16
CCAP-Budget	Budget Amendment Compilation and Distribution			

Electronic Filing: Received, Clerk's Office 07/24/2024

Employee Name		Personnel Title	Hours	Rate* (\$)	Total Cost
Remédiation Category	Task				
		Senior Prof. Engineer	2.00	192.33	\$384.66
CA-Pay	Additional CA Reimbursement Claim Certification				
		Senior Acct. Technician	8.00	81.36	\$650.88
CA-Pay	Additional CA Reimbursement Claim Certification				
		Senior Admin. Assistant	4.00	66.58	\$266.32
CA-Pay	Additional CA Reimbursement Claim Compilation, Assembly, and Distribution				

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	\$7,182.88
--	-------------------

Consultant's Materials Costs Form

Materials, Equipment, or Field Purchase		Time or Amount Used	Rate (\$)	Unit	Total Cost
Remediation Category	Description/Justification				
Postage		2.00	7.50	/each	\$15.00
CCA-Field	Distribution of Corrective Action Forms / Plan				
Bidding Advertisement		1.00	153.20	/each	\$153.20
CCA-Field	Publication Fee				

Total of Consultant Materials Costs	\$168.20
--	-----------------



Illinois Environmental Protection Agency

0530100002 - Ford County
ABP Properties, LLC
Incident # 20160917
LUST Tech File

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois

General Information for the Budget and Billing Forms

LPC #: 0530100002 County: Ford

City: Gibson City Site Name: ABP Gibson City

Site Address: 120 West 1st Street

Date this form was prepared: Nov 21, 2023

List all IEMA Incident numbers associated with this package:

2016-0917

List all other incidents associated with this site that are not associated with this package:

This form is being submitted as a (check one, if applicable):

- Billing Package
- Budget Amendment (Budget amendments must include only the costs over the previous budget.)
- Budget Proposal

Please provide the name(s) and date(s) of report(s) documenting the costs requested:

Name(s): CAP BA

Date(s): Nov 21, 2023

This package is being submitted for the site activities indicated below:

35 III. Adm. Code 734:

- Early Action
- Free Product Removal after Early Action
- Site Investigation Stage 1: Stage 2: Stage 3:
- Corrective Action

35 III. Adm. Code 732:

- Early Action
- Free Product Removal after Early Action
- Site Classification
- Low Priority Corrective Action
- High Priority Corrective Action

35 III. Adm. Code 731:

- Site Investigation
- Corrective Action

General Information for the Budget and Billing Forms

The following address will be used as the mailing address for checks and any final determination letters regarding payment from the Fund for this package.

Pay to the order of: ABP Properties, Inc.

Send in care of: CWM Company, Inc.


Address: 701 South Grand Avenue West

City: Springfield

State: IL

Zip: 62704

The payee is the: Owner Operator (Check one or both.)


Signature of the owner or operator of the UST(s) (required)

11/18/23
Date

Dr. Yogi Bhardwaj

Printed name of the owner or operator of the UST(s) (required)

W-9 must be submitted.
[Click here to print off a W-9 Form.](#)

Email: _____

Number of petroleum USTs in Illinois presently owned or operated by the owner or operator; any subsidiary, parent or joint stock company of the owner or operator; and any company owned by any parent, subsidiary or joint stock company of the owner or operator:

Fewer than 101: 101 or more:

Please list all tanks that have ever been located at the site and tanks that are presently located at the site.

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Gasoline	4,000	Yes <input type="radio"/> No <input checked="" type="radio"/>	-	
Gasoline	4,000	Yes <input type="radio"/> No <input checked="" type="radio"/>	-	
Gasoline	6,000	Yes <input type="radio"/> No <input checked="" type="radio"/>	-	
Gasoline	6,000	Yes <input type="radio"/> No <input checked="" type="radio"/>	-	
Gasoline	6,000	Yes <input type="radio"/> No <input checked="" type="radio"/>	-	
Kerosene	1,000	Yes <input type="radio"/> No <input checked="" type="radio"/>	-	
Gasoline	12,000	Yes <input checked="" type="radio"/> No <input type="radio"/>	2016-0917	Overfill
Gasoline	10,000	Yes <input checked="" type="radio"/> No <input type="radio"/>	2016-0917	Overfill
Gasoline	8,000	Yes <input checked="" type="radio"/> No <input type="radio"/>	2016-0917	Overfill

Product Stored in UST	Size (gallons)	Did UST have a release?	Incident No.	Type of Release Tank Leak / Overfill / Piping Leak
Heating Oil	500	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	2016-0917	Tank Leak
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		
		Yes <input type="checkbox"/> No <input type="checkbox"/>		

Add More Rows

Undo Last Add

Owner/Operator and Licensed Professional Engineer/Geologist Budget Certification Form

I hereby certify that I intend to seek payment from the UST Fund for costs incurred while performing corrective action activities for Leaking UST incident 2016-0917. I further certify that the costs set forth in this budget are for necessary activities and are reasonable and accurate to the best of my knowledge and belief. I also certify that the costs included in this budget are not for corrective action in excess of the minimum requirements of 415 ILCS 5/57, no costs are included in this budget that are not described in the corrective action plan, and no costs exceed Subpart H: Maximum Payment Amounts, Appendix D Sample Handling and Analysis amounts, and Appendix E Personnel Titles and Rates of 35 Ill. Adm. Code 732 or 734. I further certify that costs ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 732.606 or 734.630 are not included in the budget proposal or amendment. Such ineligible costs include but are not limited to:

- Costs associated with ineligible tanks.
- Costs associated with site restoration (e.g., pump islands, canopies).
- Costs associated with utility replacement (e.g., sewers, electrical, telephone, etc.).
- Costs incurred prior to IEMA notification.
- Costs associated with planned tank pulls.
- Legal fees or costs.
- Costs incurred prior to July 28, 1989.
- Costs associated with installation of new USTs or the repair of existing USTs.

Owner/Operator: ABP Properties, LLC

Authorized Representative: Yogi Bhardwaj Title: Agent

Signature: [Signature] Date: 11/18/23

Subscribed and sworn to before me the 18th day of November 2023

[Signature]

(Notary Public)

Seal:



In addition, I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 732 or 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Illinois EPA, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 45 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].

L.P.E./L.P.G.: Vince E. Smith MATTHEW SALADINO

L.P.E./L.P.G. Seal: [Seal]

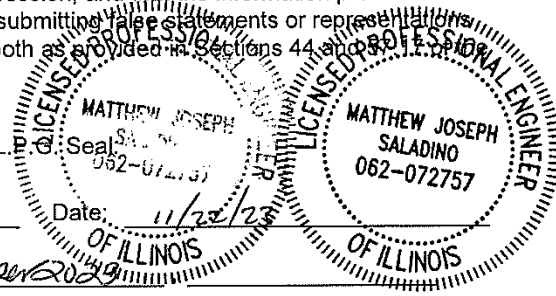
L.P.E./L.P.G. Signature: [Signature]

Subscribed and sworn to before me the 22nd day of November 2023

[Signature]

(Notary Public)

Seal:



The Illinois EPA is authorized to require this information under 415 ILCS 5/1. Disclosure of this information is required. Failure to do so may result in the delay or denial of any budget or payment requested hereunder.

CONTRACTOR CERTIFICATION FORM

DATE: 11-6-2023

TO: CWM COMPANY, INC.

FROM: CROSS CONSTRUCTION, INC.

PROJECT: Excavation in Gibson City, Illinois

SUMMARY OF WORK BID:

Excavation, transportation, and disposal of 698 cy of petroleum contaminated soil to authorized special waste landfill. Backfill of excavation area back to original grade.

TOTAL BID AMOUNT: \$ 128,781.00

Bid details are attached.

I hereby certify, to the best of my knowledge, that:

1. The prices in the above-described and attached bid have been arrived at by the bidder independently, without consultation, communication, or agreement with any party for the purpose of restricting competition;
2. Unless otherwise required by law, the prices quoted in the bid have not been and will not be disclosed by the bidder to any party, directly or indirectly, prior to the opening of all bids by the party requesting the bids; and
3. No attempt has been made or will be made by the bidder to induce any other party to submit, not submit, or modify a bid for the purpose of restricting competition.

I am aware there are significant criminal penalties, including felony penalties, for submitting false statements or representations to the Illinois EPA and that these penalties include, but are not limited to, fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Illinois Environmental Protection Act [415 ILCS 5/44 and 57.17].

Bidder

Company: Cross Construction, Inc.

Contact: Chad Rothe

Signature: 

Date: 11-6-2023

Attachment

BID SUBMITTAL COVER PAGE

Project Location:
120 West 1st Street
Gibson City, Illinois 60936

Owner/Operator:
ABP Properties, LLC
159 North Greenleaf Suite #2
Gurnee, Illinois 60031

Scope of Work:
Excavation, transportation and
disposal of 698 cu yds of soil.

Owner/Operator Remediation Contractor:
CW³M Company, Inc.
701 South Grand Ave West
Springfield, IL 62704
(217) 522-8001

Backfill the excavation with
698 cu yds material.

Bid Submitted by: _____
Cross Construction, Inc.
3615 N. Countryview Road
Urbana, IL 61802

Bid Opening on: November 10, 2023
CW³M Company, Inc.
701 South Grand Avenue West
Springfield, Illinois 62704
(217) 522-8001
Bidders Welcome

Bid Submitted To:
CW³M Company, Inc.
701 South Grand Avenue West
Springfield, Illinois 62704
(217) 522-8001

Summary of Work Bid (Attachments may be provided):

Excavation Transportation Disposal of 698 cubic yards: \$ 93,881.00

Backfill the excavation with 698 cubic yards of approved material: \$ 34,900.00

Total Bid Amount:

Bidder: Cross Construction, Inc.

Contact: Chad Rothe

Signature: 

Date: 11-3-23

CONTRACTOR CERTIFICATION FORM

DATE: 11-3-23

TO: CWM

FROM: Carter X LLC

PROJECT: Excavation in Gibson City, Illinois

SUMMARY OF WORK BID:

TOTAL BID AMOUNT: \$ 128,362.20

Bid details are attached.

I hereby certify, to the best of my knowledge, that:

- 1. The prices in the above-described and attached bid have been arrived at by the bidder independently, without consultation, communication, or agreement with any party for the purpose of restricting competition;
- 2. Unless otherwise required by law, the prices quoted in the bid have not been and will not be disclosed by the bidder to any party, directly or indirectly, prior to the opening of all bids by the party requesting the bids; and
- 3. No attempt has been made or will be made by the bidder to induce any other party to submit, not submit, or modify a bid for the purpose of restricting competition.

I am aware there are significant criminal penalties, including felony penalties, for submitting false statements or representations to the Illinois EPA and that these penalties include, but are not limited to, fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Illinois Environmental Protection Act [415 ILCS 5/44 and 57.17].

Bidder

Company: Carter X LLC

Contact: Cody Robson

Signature: Cody Robson

Date: 11-3-23

Attachment

BID SUBMITTAL COVER PAGE

Project Location:
120 West 1st Street
Gibson City, Illinois 60936

Owner/Operator:
ABP Properties, LLC
159 North Greenleaf Suite #2
Gurnee, Illinois 60031

Scope of Work:
Excavation, transportation and disposal of 698 cu yds of soil.

Owner/Operator Remediation Contractor:
CW³M Company, Inc.
701 South Grand Ave West
Springfield, IL 62704
(217) 522-8001

Backfill the excavation with 698 cu yds material.

Bid Submitted by: _____
Carter X LLC.
7 Williamson Dr.
Fairfield IL 62837

Bid Opening on: November 10, 2023
CW³M Company, Inc.
701 South Grand Avenue West
Springfield, Illinois 62704
(217) 522-8001
Bidders Welcome

Bid Submitted To:
CW³M Company, Inc.
701 South Grand Avenue West
Springfield, Illinois 62704
(217) 522-8001

Summary of Work Bid (Attachments may be provided):

Excavation Transportation Disposal of 698 cubic yards:

\$ \$ 93,811.20

Backfill the excavation with 698 cubic yards of approved material:

\$ \$ 34,552.00

Total Bid Amount:

Bidder: Carter X LLC.
Contact: Cody Robson
Signature: Cody Robson
Date: 11-3-23

LEAKING UST TECHNICAL REVIEW NOTES

Reviewed by: Scott Rothering
Date Reviewed: 1/26/22

Re: 0530100002 -- Ford County
Gibson City / ABP Properties, LLC
120 West 1st Street
Leaking UST Incident 20160917
Leaking UST Technical File

Document(s) Reviewed:

Corrective Action Plan and Budget – dated October 7, 2021 and received October 12, 2021

General Site Information:

Site subject to: 734

IEMA date(s): 10/5/16	Payment from the Fund? (Y/N/unknown): yes
UST system removed? (Y/N): yes	OSFM Fac. ID #: 4-014590
Encountered groundwater? (Y/N/unknown): yes	SWAP mapping and evaluation completion date: 11/26/19
Free product? (Y/N/unknown): no	Site placement correct in SWAP? (Y/N): yes
Current/past land use: I/C	Inspection Required? (Date/Plan):
Size & product of USTs: 1 12,000 gallon, 1 10,000 gallon gasoline, 1 8000 gallon gasoline, 1 560 gallon heating oil	
Is site located in EJ area? no	Is investigation of indoor inhalation exposure route required? yes
Has enough sampling been completed to perform a Right-to-Know Evaluation? yes	PLA Checklist Complete? yes

History of Site:

Incident was reported 10/5/16 it moved through Stage 2 of Site Investigation. SICR was approved 6/13/19. Original CAP and Budget were approved 5/5/20. An amended CAP and Budget were approved 5/5/20. This involved installation of an engineered barrier for CW Inhalation exceedances – which was cut to only the areas which exceeded Tier 2 ROs. Also at this time it was determined that a VI investigation was necessary. Additionally, we requested additional sampling to determine the exact placement of the engineered barrier.

The consultant proceeded to the site and did the sampling which we requested. The soil vapor sample exceeded remediation objectives for benzene and ethylbenzene. The result of the soil gas

Page 2

sample was 161.3 mg/m³ benzene and 43.44 mg/m³ ethylbenzene. Since this is the case, the consultant is proposing removing soil which is contaminated and therefore contributing to the vapor problem on site. This includes 968 yd³ which is located under the canopy. The soil gas vapor sample was taken at SV-1 located at the most contaminated area of the site which is in the location of one of the former dispensers, under the canopy. The volume of soil removal is determined not only by the soil gas result, but also by soil results during earl action which exceed Tier 2 remediation objectives. The area of soil which exceeds Tier 2 remediation objectives appears to fit neatly under the canopy. However, it does extend from clean soil sample to clean soil sample as can be compared in drawing 0007A and 0013. The soil removal is proposed to proceed to 10 feet bgs.

In a previous CAP, the consultant tried to get approval for installing an engineered barrier over the area under the canopy where the dispensers were located. We told them at that time they needed to sample more because part of the area they were proposing to use an engineered barrier did not exceed Tier 2 remediation objectives. We also determined they needed to perform a soil gas sample. Now, with the exceedance of this soil gas sample, and the continued presence of the soil contamination which exceeded Tier 2 numbers for outdoor inhalation the consultant is proposing removing the soil, canopy, and replacing the concrete which was originally over it. They provide the argument that the soil exceeds VI ROs and Tier 2 for CW and IC outdoor inhalation. Both are true. Since they are removing the contaminated soil it appears to be ok. However, the volume of contaminated soil removed on the Budget forms does not match the amount calculated and will be reduced to that amount.

Since they are removing soil, they first have to do a landfill profile sample. While doing this sample, they are proposing performing two more borings and taking samples from them – one north of MW-4 and one northwest of the station building. This could potentially take away the need for an ELUC. This will be covered in the minimum charge for drilling so there really is not additional cost. I can approve these borings.

After excavation and sampling, they are proposing performing another vapor sample to determine the level of vapor contamination on site. This will be performed in the area of the site where the most contamination is present.

Finally, they have submitted in the CAP the costs for replacing the concrete on site. A google image search indicates there is or was concrete at the location.

The budget will be cut for 1) the number of claims submitted – only 2. 2) volume of soil removal cut according to what is on page 10.

UPDATED 5/17/24:

The consultant has submitted an amended CAP Budget. This is for the costs for soil removal which exceeds the amount we approved previously. They state they cannot get the soil removed

Page 3

for that amount, and they received bids for doing the work. However, we cannot approve these costs because we have already approved a rate for soil removal and the regulations state that once a rate has been approved, a new rate cannot be applied to the work. This entire CAP Budget is for getting bids and a new rate for soil removal. Therefore, it will all be denied.

Illinois EPA Decision:

Denial of budget.

Response Due:

CACR.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

(217) 524-3300

CERTIFIED MAIL

MAY 21 2024

9589 0710 5270 0477 0525 85

Yogi Bhardwaj
ABP Properties, LLC
159 North Greenleafd Street, Suite #2
Gurnee, IL 60031

Re: 0530100002 -- Ford County
Gibson City/ABP Properties, LLC
120 West 1st Street
Leaking UST Incident 20160917
Leaking UST Technical File

Dear Yogi Bhardwaj:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the Corrective Action Plan Budget (budget) submitted for the above-referenced incident. This budget, dated November 22, 2023, was received by the Illinois EPA on November 27, 2023. Citations in this letter are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

The budget is rejected for the reason(s) listed in Attachment A (Sections 57.7(b)(3) and 57.7(c) of the Act and 35 Ill. Adm. Code 734.505(b) and 734.510(b)).

All future correspondence must be submitted to:

Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

Please submit all correspondence in duplicate and include the Re: block shown at the beginning of this letter.

An underground storage tank system owner or operator may appeal this decision to the Illinois Pollution Control Board. Appeal rights are attached.

2125 S. First Street, Champaign, IL 61820 (217) 278-5800
115 S. LaSalle Street, Suite 2203, Chicago, IL 60603
1101 Eastport Plaza Dr., Suite 100, Collinsville, IL 62234 (618) 346-5120
9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000

595 S. State Street, Elgin, IL 60123 (847) 608-3131
2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022
4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

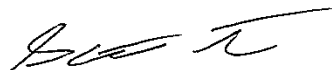
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If you have any questions or need further assistance, please contact the undersigned at (217) 785-1858 or at Scott.Rothering@illinois.gov.

Sincerely,



Scott Rothering
Project Manager
Special Projects and Financial Unit
Leaking Underground Storage Tank Section
Bureau of Land

Attachments: Attachment A
Appeal Rights

c: Carol Rowe, CWM Company (electronic copy)
BOL File

Appeal Rights

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board pursuant to Sections 40 and 57.7(c)(4) of the Act by filing a petition for a hearing within 35 days after the date of issuance of the final decision. However, the 35-day period may be extended for a period not to exceed 90 days by written notice from the owner or operator and the Illinois EPA within the initial 35-day appeal period. If the owner or operator wishes to receive a 90-day extension, a written request that includes a statement of the date the final decision was received, along with a copy of this decision, must be sent to the Illinois EPA as soon as possible.

For information regarding the filing of an appeal, please contact:

Clerk of the Board
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
(312) 814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
1021 North Grand Avenue East
PO Box 19276
Springfield, IL 62794-9276
(217) 782-5544

Attachment A

Re: 0530100002 -- Ford County
Gibson City / ABP Properties, LLC
120 West 1st Street
Leaking UST Incident 20160917
Leaking UST Technical File

Citations in this attachment are from the Environmental Protection Act (415 ILCS 5) (Act) and Title 35 of the Illinois Administrative Code (35 Ill. Adm. Code).

The budget includes Remediation and Disposal Costs, Consulting Personnel Costs, and Consultant's Material Costs that exceed the maximum payment amounts set forth in Subpart H of 35 Ill. Adm. Code 734. Such costs are ineligible for payment from the Fund pursuant to 35 Ill. Adm. Code 734.630(zz).

Pursuant to 35 Ill. Adm. Code 734.800(a), Subpart H of 35 Ill. Adm. Code 734 provides three methods for determining the maximum amounts that can be paid from the Fund for eligible corrective action costs. The first method for determining the maximum amount that can be paid for each task is to use the maximum amount for each task set forth in 35 Ill. Adm. Code 734.810 through 734.850 and 734.870. The second method for determining the maximum amount that can be paid for each task is bidding in accordance with 35 Ill. Adm. Code 734.855. The third method for determining the maximum amount that can be paid for each task is to determine the maximum amount for unusual or extraordinary circumstances in accordance with 35 Ill. Adm. Code 734.860. The owner or operator previously requested approval of the maximum amounts set forth in 35 Ill. Adm. Code 734.810 through 734.850 and 734.870. In a letter dated February 9, 2022, the Illinois EPA approved the maximum amounts set forth in 35 Ill. Adm. Code 734.810 through 734.850 and 734.870. Pursuant to 35 Ill. Adm. Code 734.870(d)(1), for costs approved by the Illinois EPA in writing prior to the date the costs are incurred, the applicable maximum amounts must be the amounts in effect on the date the Illinois EPA received the budget in which the costs were proposed. Once the Illinois EPA approves costs, the applicable maximum amounts must not be increased, e.g., by proposing the costs in a subsequent budget. The owner or operator is attempting to increase the applicable maximum amounts by proposing the costs in a subsequent budget.

In addition, bidding costs for which the Illinois EPA approved the maximum amounts set forth in 35 Ill. Adm. Code 734.810 through 734.850 and 734.870 exceeds the minimum requirements necessary to comply with the Act. Costs for corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act are ineligible for payment from the Fund pursuant to Section 57.7(c)(3) of the Act and 35 Ill. Adm. Code 734.630(o).

Furthermore, bidding costs for which the Illinois EPA approved the maximum amounts set forth in 35 Ill. Adm. Code 734.810 through 734.850 and 734.870 violates a provision of the Act or Illinois Pollution Control Board (Board), Office of the Illinois State Fire Marshal (OSFM), or Illinois EPA regulations. Costs associated with activities that violate any provision of the Act or Board, OSFM, or Illinois EPA regulations are ineligible for payment from the Fund pursuant to Section 57.6(a) of the Act and 35 Ill. Adm. Code 734.630(i).

Appeal Rights

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