BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS

SHREE KRUBER, INC., Petitioner,	)	
v.	)	PCB 2021-003
	)	(LUST Appeal)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent.	)	

NOTICE

Don Brown, Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
don.brown@illinois.gov

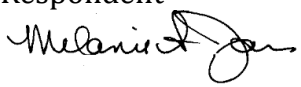
Carol Webb, Hearing Officer
Illinois Pollution Control Board
1021 North Grand Avenue East
P.O. Box 19274
Springfield, IL 62794-9274
carol.webb@illinois.gov

Jennifer M. Martin
Melissa S. Brown
HEPLERBROOM, LLC
4340 Acer Grove Drive
Springfield, IL 62711
Jennifer.Martin@heplerbroom.com
Melissa.Brown@heplerbroom.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



Melanie A. Jarvis
Assistant Counsel
Division of Legal Counsel
1021 North Grand Avenue, East
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
866/273-5488 (TDD)
Dated: January 6, 2021

BEFORE THE POLLUTION CONTROL BOARD
OF THE STATE OF ILLINOIS

SHREE KRUBER, INC., Petitioner,	)	
v.	)	PCB 2021-003
	)	(LUST Appeal)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent.	)	

APPEARANCE

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

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent

Melanie A. Jarvis
Assistant Counsel
Special Assistant Attorney General
Division of Legal Counsel
1021 North Grand Avenue, East
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544
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melanie.jarvis@illinois.gov
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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

SHREE KRUBER, INC., Petitioner,	)	
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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
R0001–R0064	2008 45-Day Report	June 3, 2008
R0065–R0180	Corrective Action Plan and Budget	July 1, 2013
R0181–R0278	2020 45-Day Report	March 16, 2020
R0279–R0294	Technical Review Notes	April 7, 2020
R0295–R0311	Management Group Email	June 16, 2020
R0312	Management Decision	June 16, 2020
R0313–R0314	IEPA Determination Letter	June 30, 2020

I, Nicole Cosenza, 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: Nicole Cosenza

Nicole Cosenza, Project Manager
Leaking Underground Storage Tank Section
Illinois Environmental Protection Agency

Date: 1/6/21

CERTIFICATE OF SERVICE

I, the undersigned attorney at law, hereby certify that on **January 6, 2021**, 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
James R. Thompson Center
100 West Randolph, Suite 11-500
Chicago, IL 60601
don.brown@illinois.gov

Carol Webb, Hearing Officer
Illinois Pollution Control Board
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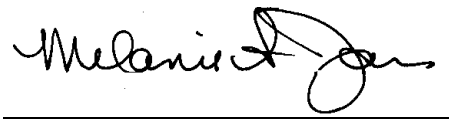
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,
Respondent



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melanie.jarvis@illinois.gov

019
0418094433-Champaign
Freedom Oil Co.
Leaking

MIDWEST ENVIRONMENTAL CONSULTING & REMEDIATION SERVICES, INC.
22200 ILLINOIS ROUTE 9 POST OFFICE BOX 614
TREMONT, ILLINOIS 61568
PHONE NO. (309) 925-5551 FAX (309) 925-5606

LETTER OF TRANSMITTAL

TO: Illinois Environmental Protection Agency
Bureau of Land-#24/LUST Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

DATE: June 3, 2008
JOB NO.: 08-24
RE: 45 Day Report
Freedom Oil Company
1406 North Prospect
Champaign, Illinois 61820

WE ARE SENDING YOU:

(X) REPORT ( ) LETTER ( ) CONTRACT & RATE SHEET

( ) MAP/DRAWINGS ( ) DOCUMENTS REQUIRING SIGNATURES

( ) REIMBURSEMENT DOCUMENTATION ( ) OTHER

COPIES	DESCRIPTION
2	45 Day Report for the above referenced site

THESE ARE TRANSMITTED AS CHECKED BELOW:

( ) REIMBURSEMENT SUBMITTAL (X) FOR APPROVAL ( ) AS NEEDED FOR REPORT

( ) COPY FOR YOUR RECORDS ( ) SIGNATURE REQUIRED ( ) AS REQUESTED

REMARKS:

Dear IEPA Project Manager:

Please find enclosed the above referenced documentation for your review. As always, please feel free to contact our office with any questions or comments. Thank You.

RELEASABLE
JUN 20 2008
REVIEWER MD

RECEIVED
JUN 11 2008
IEPA/BOL

FROM: Gaye Lynn Green: Office Manager

Midwest Environmental Consulting & Remediation Services, Inc.

Midwest Environmental Consulting & Remediation Services Inc.
22200 Illinois Route 9 • P.O. Box 614
Tremont, IL 61568-0614
Phone: (309) 925-5551 • Fax: (309) 925-5606

June 3, 2008

Illinois Environmental Protection Agency
Bureau of Land - #24
LUST Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

RE: LPC# 0910105433 – Champaign County
Freedom Oil Company
1406 North Prospect
Champaign, Illinois 61820
Incident # 20080255
LUST Technical File

Dear IEPA Project Manager:

Please find attached the 45-Day Report/Report of Early Action for the above referenced site.

Additional information will be gathered and analyzed as part of the site investigation.

If you have any questions or comments feel free to contact my office.

Sincerely,

Midwest Environmental Consulting & Remediation Services, Inc.

Allan M Green

Allan Green
President

AJF
Job No. 08-24
cc: Mr. Gene Adams

RELEASABLE
JUN 20 2008
REVIEWER MD

RECEIVED
JUN 11 2008
IEPA/BOL

LEAKING UNDERGROUND STORAGE TANK PROGRAM

45 DAY REPORT/REPORT OF EARLY ACTION

SUBJECT SITE:

FREEDOM OIL COMPANY
1406 NORTH PROSPECT
CHAMPAIGN, ILLINOIS 61820
INCIDENT #20080255

PREPARED FOR:

FREEDOM OIL COMPANY
814 WEST CHESTNUT STREET
BLOOMINGTON, IL 61701
CONTACT: MR. GENE ADAMS
(309) 828-7750

PREPARED BY:

MIDWEST ENVIRONMENTAL CONSULTING
AND REMEDIATION SERVICES, INC.
22200 ILLINOIS ROUTE 9
POST OFFICE BOX 614
TREMONT, ILLINOIS 61568-0614
CONTACT: ALLAN GREEN, PRESIDENT

FOR REVIEW BY:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND - #24
LEAKING UNDERGROUND STORAGE TANK SECTION
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

TABLE OF CONTENTS

45 DAY REPORT

IEPA 45 DAY REPORT FORM

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
45-Day Report

A. Site Identification

IEMA Incident # (6- or 8-digit): 20080255 IEPA LPC# (10-digit): 0910105433

Site Name: Freedom Oil Company

Site Address (Not a P.O. Box): 1406 North Prospect

City: Champaign County: Champaign ZIP Code: 61820

Leaking UST Technical File

B. Release Information

UST Volume (gallons)	Material Stored in UST	Release Yes / No	Type of Release Tank Leak / Overfill / Piping Leak	Product removed? Yes / No	Tank Status Repaired / Removed / Abandoned / In Use
6,000.0	Diesel Fuel	Yes	Overfill	Yes	Removed
6,000.0	Gasoline	No		Yes	Abandoned in place
6,000.0	Gasoline	No		Yes	Abandoned "
10,000.0	Gasoline	No		Yes	Abandoned "
2,000.0	Gasoline	No		Yes	Abandoned "

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JUN 11 2008
IEPA/BOL

C. Early Action

1. Does this report demonstrate that the most stringent Tier 1 remediation objectives have been met? Yes ☐ No ☑

2. Was free product encountered? Yes ☐ No ☑
If **yes**, the owner or operator must submit a Free Product Removal Report (form LPC 504). If free product removal will be conducted for more than 45 days, a Free Product Removal Plan (and budget, if applicable) must be submitted (form LPC 504).

3. Have any fire or safety hazards posed by vapors or free product or contamination to a potable water supply been identified? Yes ☐ No ☑

4.	What was the volume of backfill material excavated?	500.0 yds^3
5.	What was the volume of native soil excavated?	160.0 yds^3
6.	Was groundwater encountered at the site?	Yes ☑ No ☐
7.	Did the groundwater exhibit a sheen?	Yes ☑ No ☐

D. Site/Release Information

Provide the following:

1. Data on the nature and estimated quantity of release;
2. Data from available sources or site investigations concerning the following factors:
   a. Surrounding populations;
   b. Water quality;
   c. Use and approximate locations of wells potentially affected by the release;
   d. Subsurface soil conditions;
   e. Location of subsurface sewers;
   f. Climatological conditions; and
   g. Land use;
3. A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site;
4. The results of the free product investigations;
5. A discussion of the action taken to prevent further release of the regulated substance into the environment;
6. A discussion of the action taken to monitor and mitigate fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures; and
7. Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code 731.162, 732.202(b), or 734.210(b).

E. Other Information

Provide the following:

1. An area map showing the site in relation to surrounding properties;
2. A cross section, to scale, showing the UST(s) and the excavation;
3. Analytical/screening results in tabular format including the results of soil samples required pursuant to 35 Ill. Adm. Code 732.202(h) or 734.210(h) and the most stringent Tier 1 remediation objectives;
4. Site map meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and including sample locations;
5. Soil boring logs;

6. Chain of custody forms;

7. Laboratory analytical reports;

8. Laboratory certifications;

9. A copy of the Office of the State Fire Marshal Permit for Removal, Abandonment-in-Place, or other OSFM permits or notifications;

10. A narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed of;

11. Photographs of UST removal activities and the excavation; and

12. Copies of manifests for soil and groundwater transported off-site.

F. Early Action Tier 1 Remediation Objectives Compliance Report

If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met and a groundwater investigation is not required, in addition to the information provided above, provide the following:

1. Site characterization;

2. If water was encountered in the excavation, provide a demonstration pursuant to 35 Ill. Adm. Code 732.202(h)(4)(C) or 734.210(h)(4)(C) that it is not representative of actual groundwater; and

3. Property Owner Summary (form LPC 568).

G. Signatures

UST Owner or Operator Signature:
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 and Licensed Professional Engineer or Licensed Professional Geologist Certification of Stage 1 Site Investigation Plan and Budget (applies to Part 734 sites continuing beyond early action):
Pursuant to 35 Ill. Adm. Code 734.315(b) and 734.310(b), I certify that the Stage 1site investigation will be conducted in accordance with 35 Ill. Adm. Code 734.315 and that the costs of the Stage 1 site investigation will not exceed the amounts set forth in 35 Ill. Adm. Code 734.Subpart H, Appendix D, and Appendix E. This certification is intended to meet the requirements for a plan and budget for the Stage 1 site investigation required to be submitted pursuant to 35 Ill. Adm. Code 734.315 and 734.310.

A summary of the actual costs for conducting the Stage 1 site investigation will be submitted concurrently with the results of the Stage 1 site investigation and the Stage 2 site investigation plan and budget.

Continue onto next page.

Licensed Professional Engineer or Licensed Professional Geologist Certification:
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 this plan, budget, or report 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].

UST Owner or Operator

Name: Freedom Oil Company
Contact: Mr. Gene Adams
Address: 814 West Chestnut Street
City: Bloomington
State: Illinois
ZIP Code: 61701
Phone: (309) 828-7750
Signature: Gene Adams
Date: 6-2-2008

Consultant

Company: M.E.C.R.S., Inc.
Contact: Mr. Allan Green
Address: 22200 Illinois Route 9, P.O. Box 614
City: Tremont
State: Illinois
ZIP Code: 61568
Phone: (309) 925-5551
Signature: Allan M Green
Date: 6/3/08

Licensed Professional Engineer or Geologist

Name: Penny Silzer
Company: M.E.C.R.S., Inc.
Address: 22200 Illinois Rt. 9, P.O. Box 614
City: Tremont
State: Illinois
ZIP Code: 61568
Phone: (309) 925-5551
Ill. Registration No.: 196-000256
License Expiration Date: 03/31/09
Signature: Penny L. Silzer
Date: 6/3/08

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

RECEIVED
JUN 11 2008
IEPA/BOL

IEPA 45 DAY REPORT

D. SITE INFORMATION

1. DATA ON THE NATURE AND ESTIMATED QUANTITY OF THE RELEASE;

A suspected release of diesel fuel was reported to the Illinois Emergency Management Agency on February 25, 2008 and assigned incident number 20080255. The release is the result of years of operation as a retail gasoline station and is attributed to line leaks and spills/overfills.

The source and quantity of the release are presently unknown. The extent of the release will be determined through site investigation activities as required.

2. DATA FROM AVAILABLE SOURCES OR SITE INVESTIGATIONS CONCERNING THE FOLLOWING FACTORS:

A.) SURROUNDING POPULATIONS;

The site of the release is located within a commercial area in Champaign, Illinois (approximate population: 76,000). Vicinity maps are attached.

B.) WATER QUALITY;

Water for the area is supplied by a municipal source. Water quality is reported as good. No reports of petroleum contamination of the local water supply have been identified.

C.) USE AND APPROXIMATE LOCATIONS OF WELLS POTENTIALLY AFFECTED BY THE RELEASE;

ISWS Well Data has been requested for the subject area and will be submitted in an addendum at a later date.

D.) SUBSURFACE SOIL CONDITIONS;

The site is underlain by Wisconsinan glacial stage deposits of the Wedron Formation tills. The location of the site, as mapped on "Quaternary Deposits of Illinois," ISGS, 1979, lies within Batestown Till Member mapping unit. This material consists of light olive brown to dark gray, calcareous, sandy to silty till that contains beds of sand and silt and one bed of boulders.

E.) LOCATION OF SUBSURFACE SEWERS;

Known utility locations are shown in Figure 1. Local utility owners have made no reports of vapors or free product in the vicinity of the release.

F.) CLIMATOLOGICAL CONDITIONS;

Climatological conditions at the site are typical of central Illinois. Temperatures are typically between the mid 90's and the low 60's in the spring and summer months and between the mid 50's and low teens for the autumn and winter months. Precipitation totals vary widely from year to year.

G.) LAND USE;

The subject site is a gasoline and diesel station located at 1406 North Prospect Avenue in Champaign, IL. Land use within 500 feet of the UST's is primarily commercial.

3. A DISCUSSION OF WHAT WAS DONE TO MEASURE FOR THE PRESENCE OF A RELEASE WHERE CONTAMINATION WAS MOST LIKELY TO BE PRESENT AT THE UST SITE;

A preliminary inspection of the site revealed the presence of contamination near the vicinity of the UST system. During UST removal activities, soil samples were collected from the UST excavation and sent to TMI Analytical Laboratory for analysis. Analytical results are presented in Table 1.

4. RESULTS OF THE FREE PRODUCT INVESTIGATIONS;

No free product was encountered during UST removal activities. A sheen was noted on the water in the UST excavation. Free product is not expected to be present in the native strata on the subject site.

5. A DISCUSSION OF THE ACTION TAKEN TO PREVENT FURTHER RELEASE OF THE REGULATED SUBSTANCE INTO THE ENVIRONMENT;

One diesel UST has been removed and four gasoline UST's have been emptied and abandoned in place. Following site investigation activities, corrective action activities will most likely include excavation activities to remediate the site property.

6. A DISCUSSION OF THE ACTION TAKEN TO MITIGATE FIRE AND SAFETY HAZARDS POSED BY VAPORS OR FREE PRODUCT THAT HAS MIGRATED FROM THE UST EXCAVATION ZONE AND ENTERED SUBSURFACE STRUCTURES;

There have been no reports of free product or vapors in inhabited subsurface structures in the area as a result of the release.

7. **ANY OTHER INFORMATION COLLECTED WHILE PERFORMING INITIAL ABATEMENT MEASURES PURSUANT TO 35 ILL. ADM. CODE SECTION 732.162 OR 732.202 (B).**

Additional information will be provided to IEPA upon completion of the site investigation.

E. SUPPORTING DOCUMENTATION PROVIDE THE FOLLOWING:

1. **SITE MAP TO SCALE AND ORIENTED NORTH SHOWING:**

   A. **UST(S) SYSTEM(S) AND EXCAVATION LIMITS;**
   B. **PRODUCT AND DISPENSER LINES;**
   C. **PUMPS AND ISLANDS;**
   D. **UNDERGROUND UTILITIES (SEWER, GAS, WATER, ETC.);**
   E. **NEARBY STRUCTURES (BUILDINGS, ROADS, ETC.);**
   F. **SOIL BORING(S) (IF PRESENT);**
   G. **MONITORING WELL(S) AND/OR SUMPS (IF PRESENT);**
   H. **PROPERTY BOUNDARIES;**
   I. **SAMPLE LOCATION POINTS;**

   A site map showing the current layout is provided. See Figure 1.

2. **AN AREA MAP SHOWING THE SITE IN RELATION TO SURROUNDING PROPERTIES. THIS MAP SHOULD IDENTIFY THE FACILITIES ON THE SURROUNDING PROPERTIES;**

   An area map and topographical map are attached to this report. See Figures 2 and 3.

3. **A CROSS SECTION, TO SCALE, WITH DIMENSIONS SHOWING THE UST(S) AND THE EXCAVATION;**

   Provided as Figure 5.

4. **ANALYTICAL/SCREENING RESULTS IN TABULAR FORMAT;**

   Soil analytical results are presented in Table 2 and Appendix A.

5. UST(S) INFORMATION IN A TABULAR FORMAT AND THAT AT A MINIMUM INCLUDES;

- **A. THE TOTAL NUMBER OF UST(S) ON SITE;**
- **B. THE VOLUME OF THE UST(S) (IN GALLONS);**
- **C. THE MATERIAL STORED IN THE UST(S);**
- **D. IDENTIFICATION OF UST SYSTEM(S) THAT HAD A RELEASE;**
- **E. IDENTIFICATION OF UST SYSTEM(S) THAT WERE REPAIRED, REMOVED, OR ABANDONED-IN-PLACE.**

Underground storage tank information is attached to this report. See Table 1.

6. A COPY OF THE OFFICE OF THE STATE FIRE MARSHAL PERMIT FOR REMOVAL, ABANDONMENT-IN-PLACE OR OTHER OSFM PERMITS OR NOTIFICATIONS;

A copy of the Removal Permit and Notification are provided in Appendix C.

7. A NARRATIVE OF TANK REMOVAL AND CLEANING OPERATIONS; DESCRIBE HOW WASTES GENERATED DURING THE TANK REMOVAL WERE MANAGED, TREATED AND DISPOSED;

After remaining petroleum product was removed, all piping was disconnected from the tank. Piping runs were excavated and removed. The top of the UST was exposed with a backhoe. The tank was then vented of vapors so that less than 5% of the lower explosive limit was detected in it. It was removed from its respective excavation, cut open and cleaned. The decontaminated tank was then loaded onto a flatbed trailer for transport to be scrapped. The tank cleaning waste was drummed and stored on site for disposal permitting.

8. PHOTOGRAPHS OF UST REMOVAL ACTIVITIES AND THE EXCAVATION;

Photographs of Early Action activities are included in Appendix D.

9. COPIES OF MANIFESTS FOR SOIL AND GROUNDWATER TRANSPORTED OFF-SITE.

Soil was transported offsite and manifests will be included in an addendum at a later date.

REPORT OF EARLY ACTION

Report of Early Action Activities
45 Day Report
Freedom Oil Company
1406 North Prospect
Champaign, Illinois
IEMA Incident No. 20080255

There are a total of six (6) USTs located at the site (OSFM Facility ID# 4-016556). All of the USTs are registered with the OSFM. Incident number 20080255 was assigned to the subject site in response to identified near the UST system during UST removal activities.

On April 2, 2008, personnel and equipment were mobilized to the Freedom Oil Company station located at 1406 North Prospect Avenue in Champaign, Illinois (site) for underground storage tank (UST) removal activities. Illinois Oil Marketing Equipment (IOME) of Pekin, Illinois provided UST excavation, cleaning and disposal services; Midwest Environmental Consulting and Remediation Services, Inc. (MECRS) of Tremont, Illinois provided project oversight, documentation and consultation. The USTs were decommissioned under the supervision of Office of the Illinois State Fire Marshal (OSFM) representative Herman Taylor.

Upon removal of the tank, soil samples were collected from the excavation extents. The tank was in fair condition. Contamination in the UST pit was apparently due to UST and piping leaks as well as spills or overfills. The removal procedures were conducted according to standard safety protocols, under the supervision of OSFM representative Mr. Herman Taylor.

The UST was exposed the day of tank removal. After remaining petroleum product was removed, all piping was disconnected from the tanks. Piping runs were excavated and removed. The tops of the USTs were exposed with a backhoe. The tanks were then vented of vapors so that 5% of the lower explosive limit was detected in them. The tank was removed from its respective excavation, cut open and cleaned. The decontaminated tank was then loaded onto a flatbed trailer for transport to be scrapped. The waste from the UST was placed into IDOT approved 55 gallon drums and will be permitted for disposal.

The geologic strata encountered during removal consisted of silty, sandy, clays and till. Contaminated soils were encountered in the UST excavation.

The backfill in the UST excavation was contaminated, physically recognizable by soil discoloration and an odor. Field screening of the samples indicated volatile organics present in the soil. Soil samples were collected from native material at depths of about 3 feet below the invert elevation of the base of the tanks and from the UST excavation sidewalls. Sidewall samples were retrieved from the depths representative of two thirds the distance from the surface, in the lower one third of the excavation. UST excavation soil samples also exhibited petroleum impact, which was confirmed by screening samples using a portable photoionization detector (PID).

Soil, split from field screened samples was containerized in glass jars and sealed under lids with Teflon septums and placed into a cooler on ice. The samples were transported to TMI Analytical Services of Springfield, Illinois for BTEX and PNAs under chain-of-custody, and accompanied by appropriate documentation. Soil analytical results in tabular format are provided in Table 2 and laboratory certified analytical results and completed chains-of-custody are provided in Appendix A.

Water in the UST excavation exhibited a petroleum sheen and an odor. Water levels did not appear to increase after a significant amount of time indicating that the water in the excavation appeared to be "trapped". No water bearing unit was identified in the depth of the UST excavation.

Prior to the excavation, three representative soil samples were taken from the excavation and sent for analysis of BTEX and PNAs. Two of the three soil samples showed contamination above the IEPA Tier 1 Cleanup Standards. Based on those soil samples and field screening of the soil as the excavation was performed, the soil was removed and disposed of at an approved landfill facility and replaced with clean backfill.

Confirmation of the presence of a release was indicated by the Early Action activities. The samples taken from the sidewalls of the UST excavation show that contamination above the IEPA Tier 1 Cleanup Standards remains on site.

FIGURE 1

SITE MAP

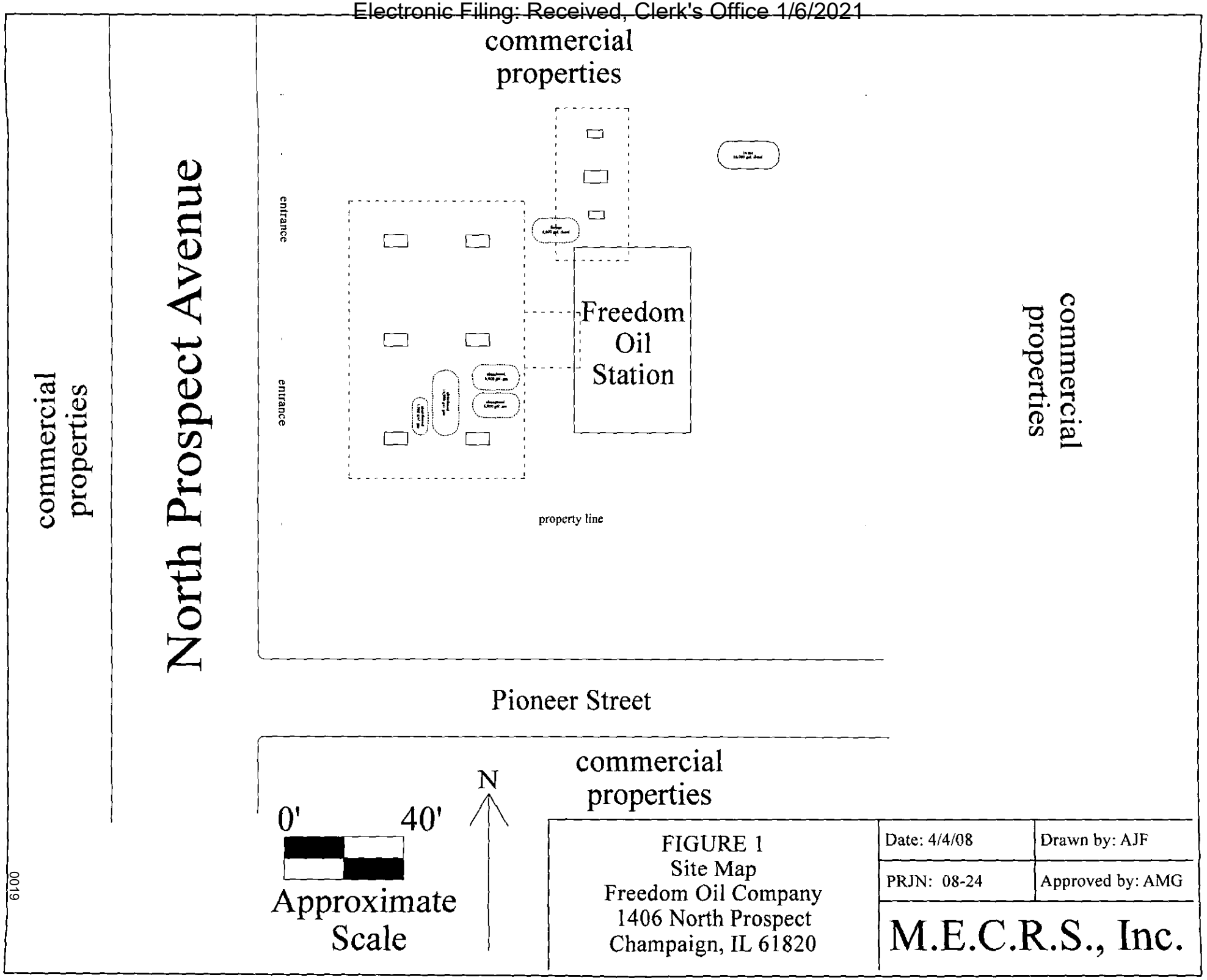


FIGURE 1
Site Map
Freedom Oil Company
1406 North Prospect
Champaign, IL 61820

Date: 4/4/08	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

0019

FIGURE 2

AREA MAP

Area Map

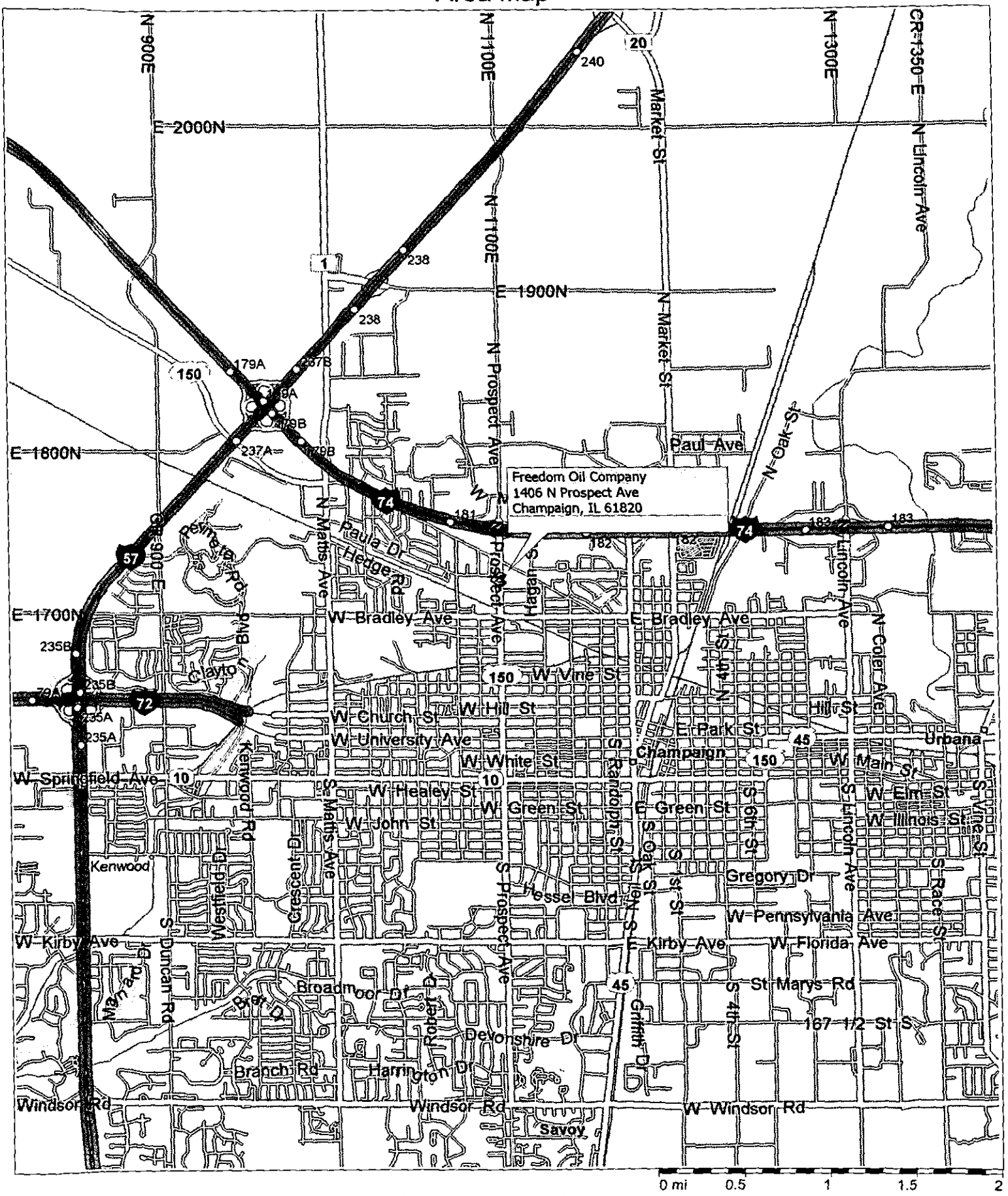
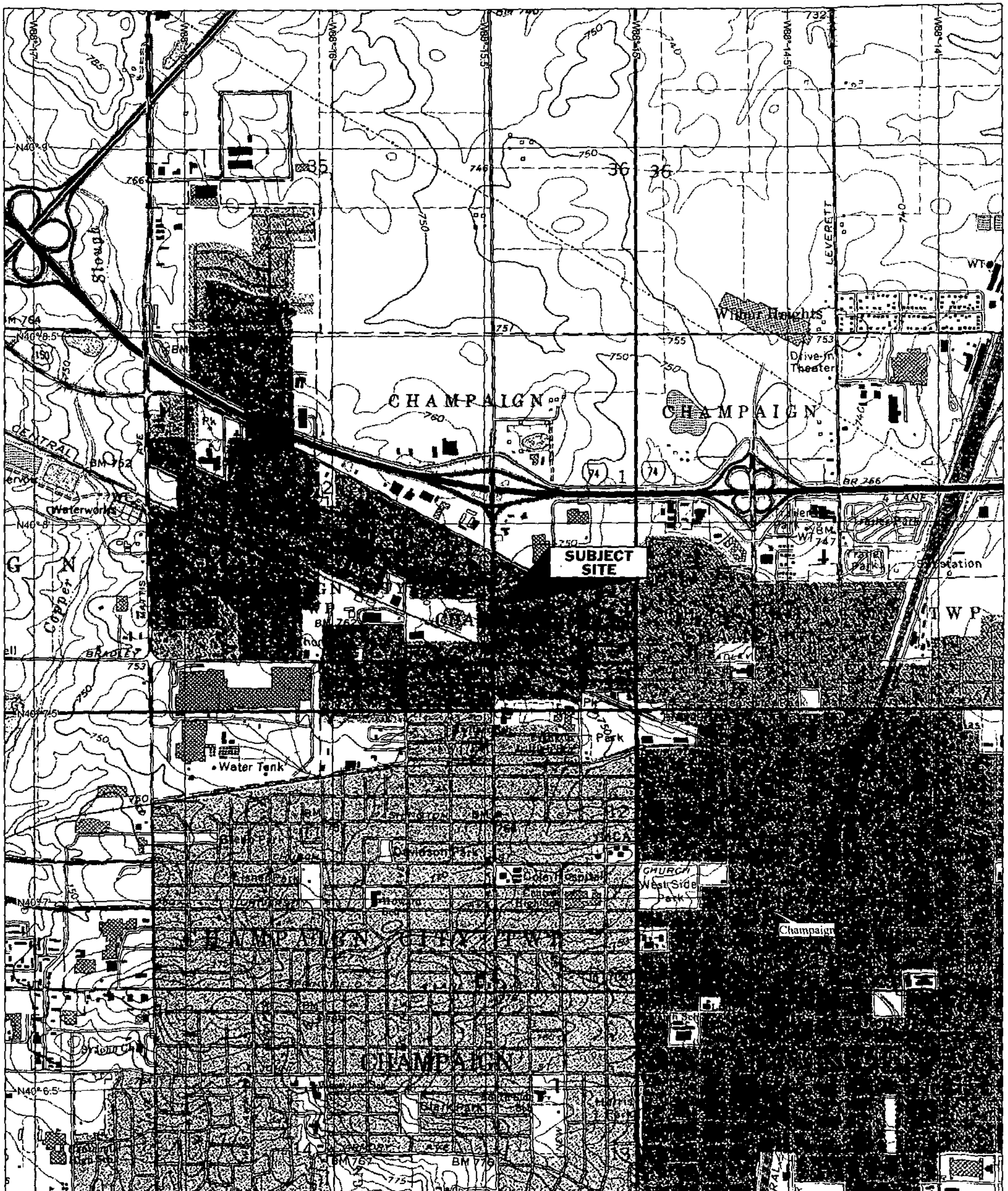


FIGURE 3

TOPOGRAPHIC MAP



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 950 ft Scale: 1 : 24,000 Detail: 13-0 Datum: WGS84

FIGURE 4

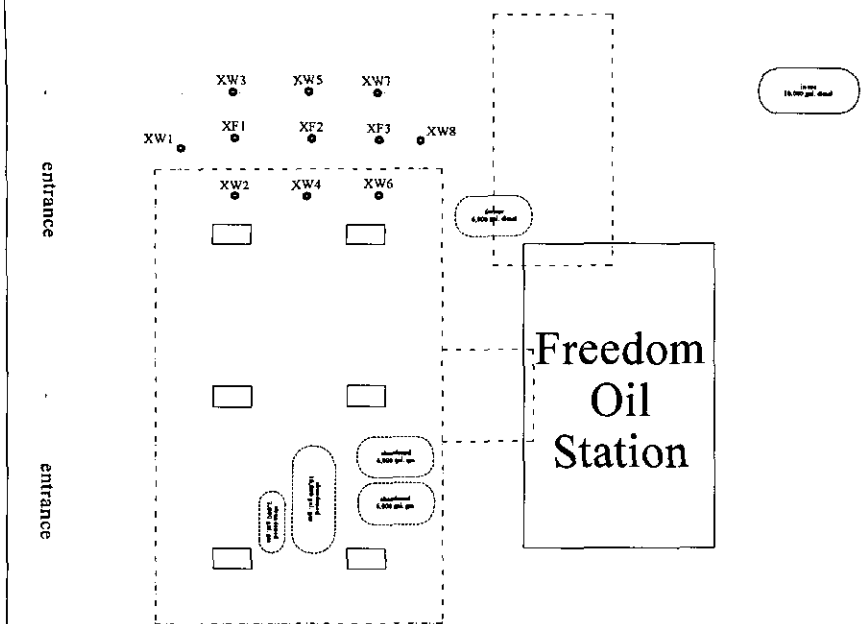
EARLY ACTION SAMPLING LOCATIONS

commercial properties

North Prospect Avenue

commercial properties

commercial properties



Pioneer Street

commercial properties

N

0' 40'

Approximate Scale

FIGURE 4
E.A. Sampling Locations
Freedom Oil Company
1406 North Prospect
Champaign, IL 61820

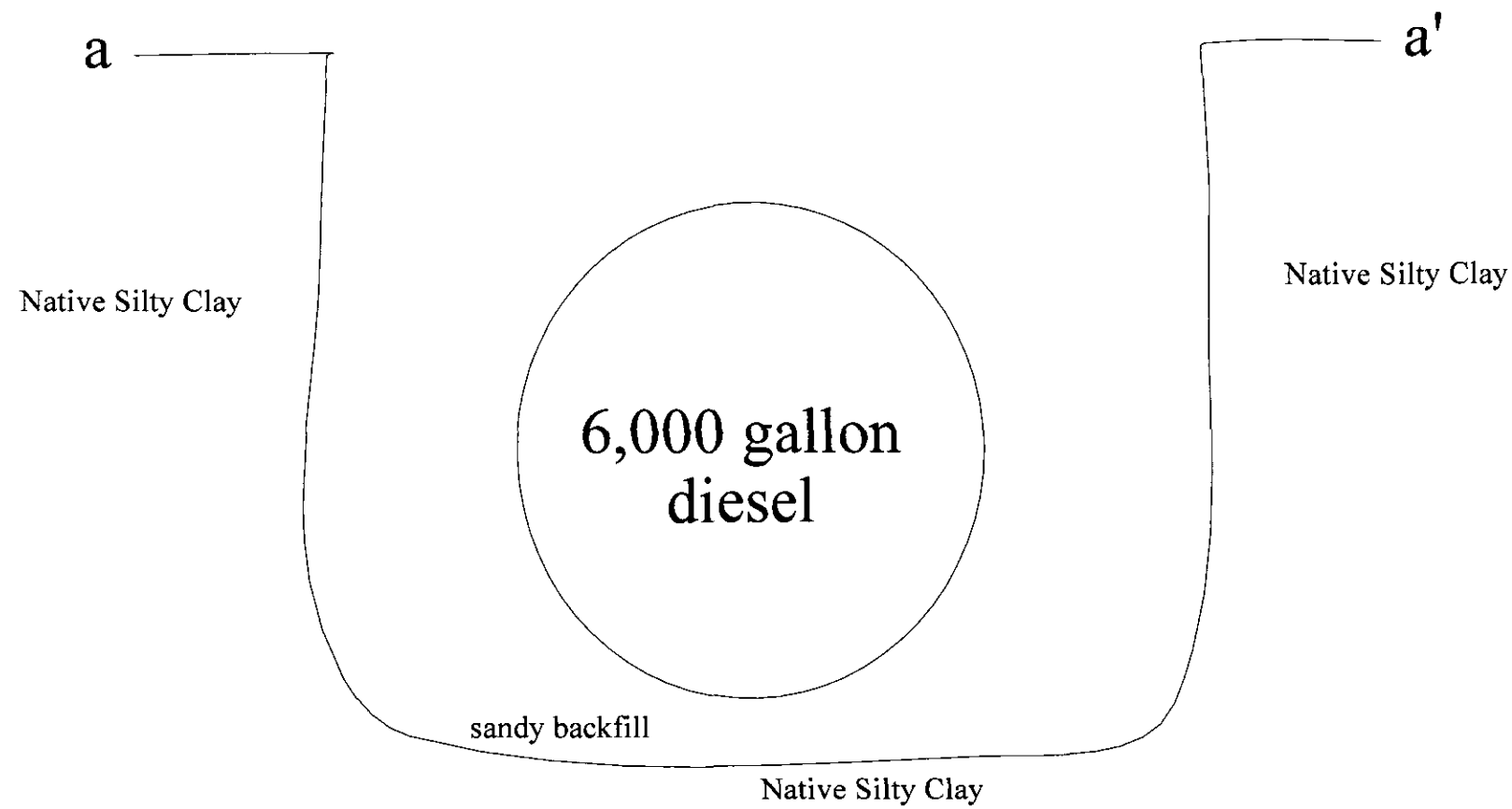
Date: 4/4/08	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

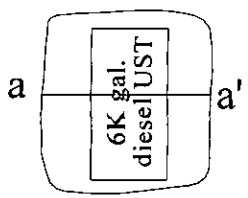
M.E.C.R.S., Inc.

0025

FIGURE 5

UST CROSS SECTION





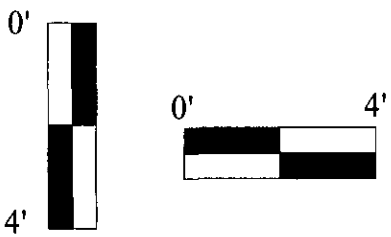


FIGURE 5
UST Cross Section
Freedom Oil Company
Champaign, IL

Date: 4/9/08	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

0027

TABLE 1

UNDERGROUND STORAGE TANK INFORMATION

TABLE 1. UNDERGROUND STORAGE TANK INFORMATION
FREEDOM OIL COMPANY – CHAMPAIGN, IL

Tank No.	Size (gal)	Contents	Release (Y or N)	Removed (Y or N)
1	6,000	Diesel Fuel	Yes	Yes
2	6,000	Gasoline	No	Abandoned In Place
3	6,000	Gasoline	No	Abandoned In Place
4	10,000	Gasoline	No	Abandoned In Place
5	2,000	Gasoline	No	Abandoned In Place
6	10,000	Diesel Fuel	No	No

TABLE 2

EARLY ACTION SOIL SAMPLING RESULTS

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	East Floor (EF) 04/02/08	West Floor (WF) 04/02/08	North Wall (NW) 04/02/08	South Wall (SW) 04/02/08	East Wall (EW) 04/02/08	West Wall (WW) 04/02/08
Benzene	30	4.4	<2.3	410	18.6	50.6	3.5 M
Toluene	12,000	4.1	3.0	<141	<2.4	<10.3	<2.3
Ethylbenzene	13,000	26.4	8.0	2,490	18.3	296	7.6 M
Total Xylenes	150,000	45.2	23.1	4,820	116	312	25.5 M
MTBE	320	<2.3	<2.3	<141	<2.4	<10.3	<2.3
PNAs							
Acenapthene	570,000	<81.3	<77.7	<77.6	<78.7	80.9	<79.4
Acenapthylene	XX	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Anthracene	12,000,000	<243	<232	<232	<235	<236	<237
Benzo (a) Anthracene	2,000	<243	<232	<232	<235	<236	<237
Benzo (a) Pyrene	8,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Benzo (b) Fluoranthene	5,000	<404	<386	<386	<391	<394	<395
Benzo (g,h,i) Perylene	XX	<243	<232	<232	<235	<236	<237
Benzo (k) Fluoranthene	49,000	<243	<232	<232	<235	<236	<237
Chrysene	160,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Dibenzo (a,h) Anthracene	2,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Fluoranthene	4,300,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Fluorene	560,000	<81.3	<77.7	<77.6	84.0	<79.2	<79.4
Ideno (1,2,3-cd) Pyrene	14,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Naphthalene	84,000	<81.3	<77.7	121	<78.7	147	<79.4
Phenanthrene	XX	<81.3	<77.7	106	79.1	164	<79.4
Pyrene	4,200,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	Landfill 1 (LF-1) 04/01/08	Landfill 2 (LF-2) 04/01/08	Landfill 3 (LF-3) 04/01/08	Exc Floor 1 (XF1) 4/3/008	Exc Floor 2 (XF2) 4/3/008	Exc Floor 3 (XF3) 4/3/008	Exc Wall 1 (XW1) 4/3/008
Benzene	30	<2.5	280	923	<2.5	<2.3	<2.4	24.7
Toluene	12,000	5.6	<164	<311	7.6	<2.3	<2.4	283
Ethylbenzene	13,000	<2.5	201	2,150	4.0	<2.3	<2.4	99.1
Total Xylenes	150,000	<6.2	1,140	2,960	15.2	<5.8	<6.0	652
MTBE	320	NA	NA	NA	<2.5	<2.3	<2.4	<11.7
PNAs								
Acenapthene	570,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Acenapthylene	XX	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Anthracene	12,000,000	<251	<268	<250	<251	<236	<241	<255
Benzo (a) Anthracene	2,000	<251	<268	<250	<251	<236	<241	<255
Benzo (a) Pyrene	8,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Benzo (b) Fluoranthene	5,000	<417	<447	<416	<418	<393	<401	<425
Benzo (g,h,i) Perylene	XX	<251	<268	<250	<251	<236	<241	<255
Benzo (k) Fluoranthene	49,000	<251	<268	<250	<251	<236	<241	<255
Chrysene	160,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Dibenzo (a,h) Anthracene	2,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Fluoranthene	4,300,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Fluorene	560,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Ideno (1,2,3-cd) Pyrene	14,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Naphthalene	84,000	<84.0	<89.9	514	<84.2	<79.1	<80.6	<85.5
Phenanthrene	XX	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Pyrene	4,200,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	Exc Wall 2 (XW2) 04/03/08	Exc Wall 3 (XW3) 04/03/08	Exc Wall 4 (XW4) 04/03/08	Exc Wall 5 (XW5) 04/03/08	Exc Wall 6 (XW6) 04/03/08	Exc Wall 7 (XW7) 04/03/08	Exc Wall 8 (XW8) 04/03/08
Benzene	30	67.7	<2.3	<2.2	<2.3	<2.4	5.4	5.1
Toluene	12,000	285	23.1	<2.2	<2.3	<2.4	2.4	<2.3
Ethylbenzene	13,000	29.2	9.5	2.3	<2.3	3.0 M	9.1	229
Total Xylenes	150,000	139	48.7	<5.6	<5.8	6.2 M	10.6	85.2
MTBE	320	<2.4	<2.3	<2.2	<2.3	<2.4	<2.3	<2.3
PNAs								
Acenapthene	570,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Acenapthylene	XX	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Anthracene	12,000,000	<239	<233	<230	<235	<244	<234	<233
Benzo (a) Anthracene	2,000	<239	<233	<230	<235	<244	<234	<233
Benzo (a) Pyrene	8,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Benzo (b) Fluoranthene	5,000	<398	<388	<383	<391	<406	<390	<388
Benzo (g,h,i) Perylene	XX	<239	<233	<230	<235	<244	<234	<233
Benzo (k) Fluoranthene	49,000	<239	<233	<230	<235	<244	<234	<233
Chrysene	160,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Dibenzo (a,h) Anthracene	2,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Fluoranthene	4,300,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Fluorene	560,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Ideno (1,2,3-cd) Pyrene	14,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Naphthalene	84,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	626
Phenanthrene	XX	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	107
Pyrene	4,200,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

APPENDIX A

LABORATORY DATA

TMI Analytical Services, LLC
NELAC Accredited #100447

2110 N. Republic St.
Springfield, IL 62702
217-698-0642 Fax: 217-698-0656
tmi@tmilab.com

02-Apr-08

T. Birky
Midwest Environmental Services
P.O. Box 614
Tremont, IL 61568-0614

TEL: (309) 925-5551
FAX (309) 925-5606

RE: Freedom Oil, Champaign **Order No.: 0804004**

Dear T. Birky:

TMI Analytical Services, LLC received 3 sample(s) on 4/1/2008 for the analyses presented in the following report.

There were no problems with the analyses unless noted on the case narrative or qualified on the analytical results. The final report includes this cover letter, analytical report and a copy of the chain of custody. It may also include but not be limited to letters of explanation or raw data.

E. Treadway
Erica Treadway by T. McClain
Assistant Laboratory Manager LAB MGR

0035

TMI Analytical Services, LLC **Date:** *02-Apr-08*

CLIENT: Midwest Environmental Services
Project: Freedom Oil, Champaign
Lab Order: 0804004

CASE NARRATIVE

All samples were received and analyzed within method required holding times unless qualified in the report. Samples met specified acceptance criteria except where noted below or qualified on the report.

D=RL has been set at or above method detection limit and below limit of quantitation.

Report Qualifiers:

*	Increased reporting limit due to required dilution	A	The laboratory control sample failed to meet the required acceptance criteria
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
F	Analyte failed to meet the required acceptance criteria for duplicate analysis	H	Holding times for preparation or analysis exceeded
M	Matrix interference(s) identified	P	Chemical preservation discrepency noted at time of analysis
RL	Reporting Limit	Sc	Scan Only
SUB	Subcontracted	TNTC	Too numerous to count
V	Verification standard recovery failed to meet the required acceptance criteria.		

TMI Analytical Services, LLC — Laboratory Results — Date: 02-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804004
Lab ID: 0804004-001
Project: Freedom Oil, Champaign
Client Sample ID: [redacted] LF-1
Collection Date: 4/1/2008 10:00:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Acenaphthylene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Anthracene	251	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Benz(a)anthracene	251	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Benzo(a)pyrene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Benzo(b)fluoranthene	417	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Benzo(g,h,i)perylene	251	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Benzo(k)fluoranthene	251	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Chrysene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Dibenz(a,h)anthracene	84.0	<RL	D	µg/Kg-dry	4/1/2008 4:36:00 PM
Fluoranthene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Fluorene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Indeno(1,2,3-cd)pyrene	84.0	<RL	D	µg/Kg-dry	4/1/2008 4:36:00 PM
Naphthalene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Phenanthrene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
Pyrene	84.0	<RL		µg/Kg-dry	4/1/2008 4:36:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Benzene	2.5	<RL		µg/Kg-dry	4/1/2008
Toluene	2.5	5.6		µg/Kg-dry	4/1/2008
Ethylbenzene	2.5	<RL		µg/Kg-dry	4/1/2008
Xylenes, Total	6.2	<RL		µg/Kg-dry	4/1/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	20.2		%	4/1/2008
Percent Solids	0.5	79.8		%	4/1/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 02-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804004
Lab ID: 0804004-002
Project: Freedom Oil, Champaign
Client Sample ID: [redacted] LF-2
Collection Date: 4/1/2008 10:00:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Acenaphthylene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Anthracene	268	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Benz(a)anthracene	268	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Benzo(a)pyrene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Benzo(b)fluoranthene	447	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Benzo(g,h,i)perylene	268	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Benzo(k)fluoranthene	268	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Chrysene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Dibenz(a,h)anthracene	89.9	<RL	D	µg/Kg-dry	4/1/2008 7:26:00 PM
Fluoranthene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Fluorene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Indeno(1,2,3-cd)pyrene	89.9	<RL	D	µg/Kg-dry	4/1/2008 7:26:00 PM
Naphthalene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Phenanthrene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
Pyrene	89.9	<RL		µg/Kg-dry	4/1/2008 7:26:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Benzene	164	280		µg/Kg-dry	4/1/2008
Toluene	164	<RL		µg/Kg-dry	4/1/2008
Ethylbenzene	164	201		µg/Kg-dry	4/1/2008
Xylenes, Total	410	1140		µg/Kg-dry	4/1/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	25.5		%	4/1/2008
Percent Solids	0.5	74.5		%	4/1/2008

TMI Analytical Services, LLC **Laboratory Results** **Date:** *02-Apr-08*

CLIENT: Midwest Environmental Services
Lab Order: 0804004 **Client Sample ID:** [redacted] LF-3
Lab ID: 0804004-003 **Collection Date:** 4/1/2008 10:00:00 AM
Project: Freedom Oil, Champaign **Matrix:** SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Acenaphthylene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Anthracene	250	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Benz(a)anthracene	250	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Benzo(a)pyrene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Benzo(b)fluoranthene	416	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Benzo(g,h,i)perylene	250	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Benzo(k)fluoranthene	250	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Chrysene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Dibenz(a,h)anthracene	83.8	<RL	D	µg/Kg-dry	4/1/2008 8:09:00 PM
Fluoranthene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Fluorene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Indeno(1,2,3-cd)pyrene	83.8	<RL	D	µg/Kg-dry	4/1/2008 8:09:00 PM
Naphthalene	83.8	514		µg/Kg-dry	4/1/2008 8:09:00 PM
Phenanthrene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
Pyrene	83.8	<RL		µg/Kg-dry	4/1/2008 8:09:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Benzene	311	923		µg/Kg-dry	4/1/2008
Toluene	311	<RL		µg/Kg-dry	4/1/2008
Ethylbenzene	311	2150		µg/Kg-dry	4/1/2008
Xylenes, Total	777	2960		µg/Kg-dry	4/1/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	20.0		%	4/1/2008
Percent Solids	0.5	80.0		%	4/1/2008

CHAIN OF COUSTODY

RUSH

TMI Analytical Services, LLC
2110 Republic Street
Springfield, Illinois 62702
(217) 698-0642 FAX (217)698-0656
tmi@tmilab.com

PROJECT #:
PROJECT LOCATION: Freedom Oil
1406 N. Prospect
Champaign, IL
REPORT TO: MWE
INVOICE TO: MWE
PHONE:
FAX:
EMAIL:

DUE DATE: Standard Turn Around Time: 7-10 Working Days — 4/3 (4/1/08) 2

SAMPLE NO.	DATE	TIME	LAB NO.	DESCRIPTION: SOLID	AQUEOUS	PRESERVATIVE: 1=HCl 2= H_2SO_4 3=NaOH 4= HNO_3	METALS: EXT. TOTAL ___ DISSOLVED ___ TCLP ___	RCRA: As Cd Cr Ba Ag Pb Hg Se Cu Ni Zn	OTHER	MICROBIOLOGY: S = SWAB AM = AIR MICROVAC	BACTERIAL PLATE CNTS: TOTAL SELECTIVE	FUNGI: QUALITATIVE QUANTITATIVE	TOTAL COLIFORMS / E.COLI
W-1	4/1/08	10AM	0804004-001	X									
W-2	↓	↓	-002	X									
W-3	↓	↓	-003	X									

SAMPLE NO.	ORGANICS: BTEX 8021B, 8260B, 5035, ~~MTBE~~ (Circle)	EPA 608,8081/8082 PESTICIDES / PCBs (CIRCLE)	EPA 624 / 8260B VOLATILE ORGANICS	EPA 625 / 8270C SEMI - VOLATILE ORGANICS (BNAs)	EPA 625 / 8270C PNAs	EPA 8151 CHLORINATED HERBICIDES	TCLP: (CIRCLE) ORGANICS, VOLATILE, SEMI - VOLATILE, PEST&HERB	TPH OA1 OA2 (CIRCLE)	OTHER
W-1	X				X				
W-2	X				X				
W-3	X				X				

SAMPLE NO.	GENERAL CHEMISTRY: PAINT FILTER	pH	FLASHPOINT/IGNITABILITY	OIL AND GREASE	CYANIDE: TOTAL REACTIVE (CIRCLE)	SULFIDE: TOTAL REACTIVE (CIRCLE)	PHENOLS	~~Settable Solids~~ % SOLIDS	NITROGEN - TYPES	PHOSPHOROUS, CHLORIDES (CIRCLE)	BOD (5DAY)	CBOD	Odor, Turbidity	TOTAL NUMBER OF SAMPLE CONTAINERS	REMARKS
W-1								X						3	A-C
W-2								X						3	A-C
W-3								X						3	A-C

ADDITIONAL INFORMATION OR INSTRUCTIONS

SAMPLED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME
RELINQUISHED BY:	[signature]	DATE	4/1/08	TIME	NOON	RECEIVED BY:		DATE		TIME
RELINQUISHED BY:		DATE		TIME		RECEIVED IN LABORATORY BY:	K McC[signature]	DATE	4/1/08	TIME NOON

Sample acceptance policy for TMI Analytical Services

The following outlines the circumstances under which samples shall be accepted or rejected. Data from any samples that do not meet the following criteria will be flagged on the laboratory results report. This sample acceptance policy is made available to sample collection personnel on the back of the chain of custody form.

The Chain of Custody (COC) form must include the following:

- Location of sample collection
- Date and TIME of sample collection (each sample must have date and time)
- Sample collector's name
- Preservation type(s)
- Sample type-matrix
- Any special remarks/instructions about the sample

Projects cannot be properly logged in until resolution of discrepancies on the COC are resolved, thus delaying sample analysis time. Turnaround time is calculated from the day following receipt of samples in the laboratory, after resolution of any discrepancies.

Samples must be labeled to include a unique identification, and must be labeled with indelible ink. Labels used must be water resistant. (TMI will provide labels with sample bottles.)

Appropriate sample bottles will be supplied by the laboratory. Clients may refer to TMI's Sample Bottle Guide for correct bottles and preservatives.

In order to meet specific sample holding time requirements, samples should be submitted as soon as possible after collection. Holding times may be referenced in TMI's Sample Bottle Guide. Samples with hold times of 48 hours to 14 days received with less than 75% of their holding time may incur rush charges.

Express shipment of refrigerated sample packages is required to prevent compromising the storage temperature. Samples should be packaged to prevent breakage and properly preserved. Packages to be shipped are to be received during normal business hours on normal working days. Special arrangements can be made as needed. Samples that are hand delivered to the lab are considered acceptable only if there is evidence that the chilling process has begun such as arriva' on ice and sampling had occurred with the past 12 hours. All other samples must have a temperature of 4 +/- 2°C to comply with temperature requirements. Compliance with sample temperature is noted at time of sample delivery.

It is the responsibility of the sampler to ensure correct preservation of samples. TMI will provide sample bottles with preservative added, but this does not ensure proper preservation with all samples. Correct preservation of samples is checked at time of analysis. Analysis will proceed with samples in non-compliance, and results will be qualified, indicating a chemical preservation discrepancy was noted at time of analysis.

Adequate sample volume is required to perform the requested test. It is the responsibility of the sample collector to provide enough sample to the lab. Required sample volumes may be referenced in TMI's Sample Bottle Guide. TMI is happy to provide sample bottle kits for specific projects. At least a one-day notice for kits aids in our service to you and our other clients.

When samples show sign of damage or contamination, the technical director will evaluate degree of damage or contamination to determine whether sample has been compromised for analysis. Samples may be rejected due to damage, contamination, or improper sample containers. The client will be notified by phone as soon as a rejection determination has been made, and arrangements for disposal of sample made then. Should multiple sample bottles have been submitted and the lab is able to perform testing from another container, analysis will proceed with a notation made on the COC as to what sample jar was damaged and disposed of.

Results issued for analysis 8021B are based upon single column retention time confirmation. Clients who desire a secondary form of confirmation should request analysis by 8260B.

Should TMI be unable to perform a requested analysis, that test will be subcontracted to a NELAP accredited laboratory and reported as subcontracted on the laboratory results report.

TMI Analytical Services, LLC

NELAC Accredited #100447

2110 N. Republic St.
Springfield, IL 62702
217-698-0642 Fax: 217-698-0656
tmi@tmilab.com

16-Apr-08

Andrew Fetterolf
Midwest Environmental Services
P.O. Box 614
Tremont, IL 61568-0614

TEL: (309) 925-5551
FAX (309) 925-5606

RE: Freedom Oil Company, 08-24, Champaign **Order No.: 0804042**

Dear Andrew Fetterolf:

TMI Analytical Services, LLC received 17 sample(s) on 4/4/2008 for the analyses presented in the following report.

There were no problems with the analyses unless noted on the case narrative or qualified on the analytical results. The final report includes this cover letter, analytical report and a copy of the chain of custody. It may also include but not be limited to letters of explanation or raw data.

Erica Treadway

Erica Treadway
Assistant Laboratory Manager

TMI Analytical Services, LLC **Date:** *16-Apr-08*

CLIENT: Midwest Environmental Services
Project: Freedom Oil Company, 08-24, Champaign
Lab Order: 0804042

CASE NARRATIVE

All samples were received and analyzed within method required *holding times* unless qualified in the report. Samples met specified acceptance criteria *except* where noted below or qualified on the report.

D=RL *has* been set at or above method detection limit and below limit of quantitation.

Report Qualifiers:

*	Increased reporting limit due to required dilution	A	The laboratory control sample failed to meet the required acceptance criteria
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
F	Analyte failed to meet the required acceptance criteria for duplicate analysis	H	Holding times for preparation or analysis exceeded
M	Matrix interference(s) identified	P	Chemical preservation discrepancy noted at time of analysis
RL	Reporting Limit	Sc	Scan Only
SUB	Subcontracted	TNTC	Too numerous to count
V	Verification standard recovery failed to meet the required acceptance criteria		

TMI Analytical Services, LLC — Laboratory Results — Date: *16-Apr-08*

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-001
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: EF
Collection Date: 4/2/2008 2:00:00 PM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Acenaphthylene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Anthracene	243	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Benz(a)anthracene	243	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Benzo(a)pyrene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Benzo(b)fluoranthene	404	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Benzo(g,h,i)perylene	243	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Benzo(k)fluoranthene	243	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Chrysene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Dibenz(a,h)anthracene	81.3	<RL	D	µg/Kg-dry	4/8/2008 4:10:00 PM
Fluoranthene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Fluorene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Indeno(1,2,3-cd)pyrene	81.3	<RL	D	µg/Kg-dry	4/8/2008 4:10:00 PM
Naphthalene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Phenanthrene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
Pyrene	81.3	<RL		µg/Kg-dry	4/8/2008 4:10:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/9/2008
Benzene	2.3	4.4		µg/Kg-dry	4/9/2008
Toluene	2.3	4.1		µg/Kg-dry	4/9/2008
Ethylbenzene	2.3	26.4		µg/Kg-dry	4/9/2008
Xylenes, Total	5.8	45.2		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	17.6		%	4/7/2008
Percent Solids	0.5	82.4		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: *16-Apr-08*

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CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-002
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: WF
Collection Date: 4/2/2008 2:10:00 PM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Acenaphthylene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Anthracene	232	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Benz(a)anthracene	232	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Benzo(a)pyrene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Benzo(b)fluoranthene	386	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Benzo(g,h,i)perylene	232	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Benzo(k)fluoranthene	232	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Chrysene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Dibenz(a,h)anthracene	77.7	<RL	D	µg/Kg-dry	4/8/2008 4:53:00 PM
Fluoranthene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Fluorene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Indeno(1,2,3-cd)pyrene	77.7	<RL	D	µg/Kg-dry	4/8/2008 4:53:00 PM
Naphthalene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Phenanthrene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
Pyrene	77.7	<RL		µg/Kg-dry	4/8/2008 4:53:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/8/2008
Benzene	2.3	<RL		µg/Kg-dry	4/8/2008
Toluene	2.3	3.0		µg/Kg-dry	4/8/2008
Ethylbenzene	2.3	8.0		µg/Kg-dry	4/8/2008
Xylenes, Total	5.8	23.1		µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	13.8		%	4/7/2008
Percent Solids	0.5	86.2		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-003
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: NW
Collection Date: 4/2/2008 2:20:00 PM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	77.6	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Acenaphthylene	77.6	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Anthracene	232	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Benz(a)anthracene	232	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Benzo(a)pyrene	77.6	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Benzo(b)fluoranthene	386	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Benzo(g,h,i)perylene	232	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Benzo(k)fluoranthene	232	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Chrysene	77.6	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Dibenz(a,h)anthracene	77.6	<RL	D	µg/Kg-dry	4/8/2008 5:36:00 PM
Fluoranthene	77.6	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Fluorene	77.6	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
Indeno(1,2,3-cd)pyrene	77.6	<RL	D	µg/Kg-dry	4/8/2008 5:36:00 PM
Naphthalene	77.6	121		µg/Kg-dry	4/8/2008 5:36:00 PM
Phenanthrene	77.6	106		µg/Kg-dry	4/8/2008 5:36:00 PM
Pyrene	77.6	<RL		µg/Kg-dry	4/8/2008 5:36:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	141	<RL		µg/Kg-dry	4/8/2008
Benzene	141	410		µg/Kg-dry	4/8/2008
Toluene	141	<RL		µg/Kg-dry	4/8/2008
Ethylbenzene	141	2490		µg/Kg-dry	4/8/2008
Xylenes, Total	353	4820		µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	13.7		%	4/7/2008
Percent Solids	0.5	86.3		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-004
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: SW
Collection Date: 4/2/2008 2:30:00 PM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	78.7	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Acenaphthylene	78.7	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Anthracene	235	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Benz(a)anthracene	235	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Benzo(a)pyrene	78.7	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Benzo(b)fluoranthene	391	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Benzo(g,h,i)perylene	235	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Benzo(k)fluoranthene	235	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Chrysene	78.7	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Dibenz(a,h)anthracene	78.7	<RL	D	µg/Kg-dry	4/8/2008 6:19:00 PM
Fluoranthene	78.7	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Fluorene	78.7	84.0		µg/Kg-dry	4/8/2008 6:19:00 PM
Indeno(1,2,3-cd)pyrene	78.7	<RL	D	µg/Kg-dry	4/8/2008 6:19:00 PM
Naphthalene	78.7	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
Phenanthrene	78.7	79.1		µg/Kg-dry	4/8/2008 6:19:00 PM
Pyrene	78.7	<RL		µg/Kg-dry	4/8/2008 6:19:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.4	<RL		µg/Kg-dry	4/8/2008
Benzene	2.4	18.6		µg/Kg-dry	4/8/2008
Toluene	2.4	<RL		µg/Kg-dry	4/8/2008
Ethylbenzene	2.4	16.3		µg/Kg-dry	4/8/2008
Xylenes, Total	5.9	118		µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	14.9		%	4/7/2008
Percent Solids	0.5	85.1		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-005
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: EW
Collection Date: 4/2/2008 2:40:00 PM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	**Analyst: KM**
Acenaphthene	79.2	80.9		µg/Kg-dry	4/8/2008 7:02:00 PM
Acenaphthylene	79.2	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Anthracene	236	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Benz(a)anthracene	236	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Benzo(a)pyrene	79.2	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Benzo(b)fluoranthene	394	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Benzo(g,h,i)perylene	236	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Benzo(k)fluoranthene	236	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Chrysene	79.2	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Dibenz(a,h)anthracene	79.2	<RL	D	µg/Kg-dry	4/8/2008 7:02:00 PM
Fluoranthene	79.2	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Fluorene	79.2	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
Indeno(1,2,3-cd)pyrene	79.2	<RL	D	µg/Kg-dry	4/8/2008 7:02:00 PM
Naphthalene	79.2	147		µg/Kg-dry	4/8/2008 7:02:00 PM
Phenanthrene	79.2	164		µg/Kg-dry	4/8/2008 7:02:00 PM
Pyrene	79.2	<RL		µg/Kg-dry	4/8/2008 7:02:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	**Analyst: GV**
Methyl tert-butyl ether	10.3	<RL		µg/Kg-dry	4/8/2008
Benzene	10.3	50.6		µg/Kg-dry	4/8/2008
Toluene	10.3	<RL		µg/Kg-dry	4/8/2008
Ethylbenzene	10.3	296		µg/Kg-dry	4/8/2008
Xylenes, Total	25.7	312		µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			**Analyst: ND**
Percent Moisture	0.5	15.4		%	4/7/2008
Percent Solids	0.5	84.6		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

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CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-006
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: WW
Collection Date: 4/2/2008 2:50:00 PM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	**Analyst: KM**
Acenaphthene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Acenaphthylene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Anthracene	237	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Benz(a)anthracene	237	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Benzo(a)pyrene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Benzo(b)fluoranthene	395	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Benzo(g,h,i)perylene	237	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Benzo(k)fluoranthene	237	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Chrysene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Dibenz(a,h)anthracene	79.4	<RL	D	µg/Kg-dry	4/8/2008 7:45:00 PM
Fluoranthene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Fluorene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Indeno(1,2,3-cd)pyrene	79.4	<RL	D	µg/Kg-dry	4/8/2008 7:45:00 PM
Naphthalene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Phenanthrene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
Pyrene	79.4	<RL		µg/Kg-dry	4/8/2008 7:45:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	**Analyst: GV**
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/8/2008
Benzene	2.3	3.5	M	µg/Kg-dry	4/8/2008
Toluene	2.3	<RL		µg/Kg-dry	4/8/2008
Ethylbenzene	2.3	7.6	M	µg/Kg-dry	4/8/2008
Xylenes, Total	5.8	25.5	M	µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			**Analyst: ND**
Percent Moisture	0.5	15.6		%	4/7/2008
Percent Solids	0.5	84.4		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-007
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XF1
Collection Date: 4/3/2008 10:00:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Acenaphthylene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Anthracene	251	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Benz(a)anthracene	251	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Benzo(a)pyrene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Benzo(b)fluoranthene	418	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Benzo(g,h,i)perylene	251	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Benzo(k)fluoranthene	251	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Chrysene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Dibenz(a,h)anthracene	84.2	<RL	D	µg/Kg-dry	4/9/2008 8:14:00 AM
Fluoranthene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Fluorene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Indeno(1,2,3-cd)pyrene	84.2	<RL	D	µg/Kg-dry	4/9/2008 8:14:00 AM
Naphthalene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Phenanthrene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
Pyrene	84.2	<RL		µg/Kg-dry	4/9/2008 8:14:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.5	<RL		µg/Kg-dry	4/8/2008
Benzene	2.5	<RL		µg/Kg-dry	4/8/2008
Toluene	2.5	7.6		µg/Kg-dry	4/8/2008
Ethylbenzene	2.5	4.0		µg/Kg-dry	4/8/2008
Xylenes, Total	6.2	15.2		µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	20.4		%	4/7/2008
Percent Solids	0.5	79.6		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-008
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XF2
Collection Date: 4/3/2008 10:10:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Acenaphthylene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Anthracene	236	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Benz(a)anthracene	236	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Benzo(a)pyrene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Benzo(b)fluoranthene	393	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Benzo(g,h,i)perylene	236	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Benzo(k)fluoranthene	236	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Chrysene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Dibenz(a,h)anthracene	79.1	<RL	D	µg/Kg-dry	4/8/2008 8:27:00 PM
Fluoranthene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Fluorene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Indeno(1,2,3-cd)pyrene	79.1	<RL	D	µg/Kg-dry	4/8/2008 8:27:00 PM
Naphthalene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Phenanthrene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
Pyrene	79.1	<RL		µg/Kg-dry	4/8/2008 8:27:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/8/2008
Benzene	2.3	<RL		µg/Kg-dry	4/8/2008
Toluene	2.3	<RL		µg/Kg-dry	4/8/2008
Ethylbenzene	2.3	<RL		µg/Kg-dry	4/8/2008
Xylenes, Total	5.8	<RL		µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	15.3		%	4/7/2008
Percent Solids	0.5	84.7		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-009
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XF3
Collection Date: 4/3/2008 1:30:00 PM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Acenaphthylene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Anthracene	241	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Benz(a)anthracene	241	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Benzo(a)pyrene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Benzo(b)fluoranthene	401	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Benzo(g,h,i)perylene	241	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Benzo(k)fluoranthene	241	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Chrysene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Dibenz(a,h)anthracene	80.6	<RL	D	µg/Kg-dry	4/9/2008 7:31:00 AM
Fluoranthene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Fluorene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Indeno(1,2,3-cd)pyrene	80.6	<RL	D	µg/Kg-dry	4/9/2008 7:31:00 AM
Naphthalene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Phenanthrene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
Pyrene	80.6	<RL		µg/Kg-dry	4/9/2008 7:31:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.4	<RL		µg/Kg-dry	4/8/2008
Benzene	2.4	<RL		µg/Kg-dry	4/8/2008
Toluene	2.4	<RL		µg/Kg-dry	4/8/2008
Ethylbenzene	2.4	<RL		µg/Kg-dry	4/8/2008
Xylenes, Total	6.0	<RL		µg/Kg-dry	4/8/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	16.9		%	4/7/2008
Percent Solids	0.5	83.1		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

0045

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-010
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XW1
Collection Date: 4/3/2008 10:20:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Acenaphthylene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Anthracene	255	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Benz(a)anthracene	255	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Benzo(a)pyrene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Benzo(b)fluoranthene	425	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Benzo(g,h,i)perylene	255	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Benzo(k)fluoranthene	255	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Chrysene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Dibenz(a,h)anthracene	85.5	<RL	D	µg/Kg-dry	4/9/2008 6:49:00 AM
Fluoranthene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Fluorene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Indeno(1,2,3-cd)pyrene	85.5	<RL	D	µg/Kg-dry	4/9/2008 6:49:00 AM
Naphthalene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Phenanthrene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
Pyrene	85.5	<RL		µg/Kg-dry	4/9/2008 6:49:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	11.7	<RL		µg/Kg-dry	4/9/2008
Benzene	11.7	24.7		µg/Kg-dry	4/9/2008
Toluene	11.7	283		µg/Kg-dry	4/9/2008
Ethylbenzene	11.7	99.1		µg/Kg-dry	4/9/2008
Xylenes, Total	29.3	652		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	21.6		%	4/7/2008
Percent Solids	0.5	78.4		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-011
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XW 2
Collection Date: 4/3/2008 10:30:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Acenaphthylene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Anthracene	239	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Benz(a)anthracene	239	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Benzo(a)pyrene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Benzo(b)fluoranthene	398	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Benzo(g,h,i)perylene	239	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Benzo(k)fluoranthene	239	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Chrysene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Dibenz(a,h)anthracene	80.0	<RL	D	µg/Kg-dry	4/8/2008 9:10:00 PM
Fluoranthene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Fluorene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Indeno(1,2,3-cd)pyrene	80.0	<RL	D	µg/Kg-dry	4/8/2008 9:10:00 PM
Naphthalene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Phenanthrene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
Pyrene	80.0	<RL		µg/Kg-dry	4/8/2008 9:10:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.4	<RL		µg/Kg-dry	4/9/2008
Benzene	2.4	67.7		µg/Kg-dry	4/9/2008
Toluene	2.4	285	E	µg/Kg-dry	4/9/2008
Ethylbenzene	2.4	29.2		µg/Kg-dry	4/9/2008
Xylenes, Total	6.0	139		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	16.3		%	4/7/2008
Percent Solids	0.5	83.7		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-012
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XW3
Collection Date: 4/3/2008 10:40:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Acenaphthylene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Anthracene	233	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Benz(a)anthracene	233	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Benzo(a)pyrene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Benzo(b)fluoranthene	388	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Benzo(g,h,i)perylene	233	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Benzo(k)fluoranthene	233	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Chrysene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Dibenz(a,h)anthracene	78.0	<RL	D	µg/Kg-dry	4/9/2008 8:57:00 AM
Fluoranthene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Fluorene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Indeno(1,2,3-cd)pyrene	78.0	<RL	D	µg/Kg-dry	4/9/2008 8:57:00 AM
Naphthalene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Phenanthrene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
Pyrene	78.0	<RL		µg/Kg-dry	4/9/2008 8:57:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/9/2008
Benzene	2.3	<RL		µg/Kg-dry	4/9/2008
Toluene	2.3	23.1		µg/Kg-dry	4/9/2008
Ethylbenzene	2.3	9.5		µg/Kg-dry	4/9/2008
Xylenes, Total	5.8	48.7		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	14.1		%	4/7/2008
Percent Solids	0.5	85.9		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-013
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XW4
Collection Date: 4/3/2008 10:50:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		SW8270C		(SW3550)	Analyst: KM
Acenaphthene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Acenaphthylene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Anthracene	230	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Benz(a)anthracene	230	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Benzo(a)pyrene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Benzo(b)fluoranthene	383	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Benzo(g,h,i)perylene	230	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Benzo(k)fluoranthene	230	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Chrysene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Dibenz(a,h)anthracene	77.0	<RL	D	µg/Kg-dry	4/9/2008 9:39:00 AM
Fluoranthene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Fluorene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Indeno(1,2,3-cd)pyrene	77.0	<RL	D	µg/Kg-dry	4/9/2008 9:39:00 AM
Naphthalene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Phenanthrene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
Pyrene	77.0	<RL		µg/Kg-dry	4/9/2008 9:39:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		SW8260B		(SW5035/8260B)	Analyst: GV
Methyl tert-butyl ether	2.2	<RL		µg/Kg-dry	4/9/2008
Benzene	2.2	<RL		µg/Kg-dry	4/9/2008
Toluene	2.2	<RL		µg/Kg-dry	4/9/2008
Ethylbenzene	2.2	2.3		µg/Kg-dry	4/9/2008
Xylenes, Total	5.6	<RL		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		D2974/SM2540G			Analyst: ND
Percent Moisture	0.5	13.0		%	4/7/2008
Percent Solids	0.5	87.0		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

0047

CLIENT: Midwest Environmental Services
Lab Order: 0804042
Lab ID: 0804042-014
Project: Freedom Oil Company, 08-24, Champaign
Client Sample ID: XW5
Collection Date: 4/3/2008 11:00:00 AM
Matrix: SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		SW8270C		(SW3550)	Analyst: KM
Acenaphthene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Acenaphthylene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Anthracene	235	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Benz(a)anthracene	235	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Benzo(a)pyrene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Benzo(b)fluoranthene	391	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Benzo(g,h,i)perylene	235	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Benzo(k)fluoranthene	235	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Chrysene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Dibenz(a,h)anthracene	78.6	<RL	D	µg/Kg-dry	4/9/2008 2:33:00 AM
Fluoranthene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Fluorene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Indeno(1,2,3-cd)pyrene	78.6	<RL	D	µg/Kg-dry	4/9/2008 2:33:00 AM
Naphthalene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Phenanthrene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
Pyrene	78.6	<RL		µg/Kg-dry	4/9/2008 2:33:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		SW8260B		(SW5035/8260B)	Analyst: GV
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/9/2008
Benzene	2.3	<RL		µg/Kg-dry	4/9/2008
Toluene	2.3	<RL		µg/Kg-dry	4/9/2008
Ethylbenzene	2.3	<RL		µg/Kg-dry	4/9/2008
Xylenes, Total	5.8	<RL		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		D2974/SM2540G			Analyst: ND
Percent Moisture	0.5	14.8		%	4/7/2008
Percent Solids	0.5	85.2		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT:	Midwest Environmental Services		
Lab Order:	0804042	**Client Sample ID:**	XW6
Lab ID:	0804042-015	**Collection Date:**	4/3/2008 1:40:00 PM
Project:	Freedom Oil Company, 08-24, Champaign	**Matrix:**	SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	**Analyst: KM**
Acenaphthene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Acenaphthylene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Anthracene	244	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Benz(a)anthracene	244	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Benzo(a)pyrene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Benzo(b)fluoranthene	406	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Benzo(g,h,i)perylene	244	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Benzo(k)fluoranthene	244	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Chrysene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Dibenz(a,h)anthracene	81.6	<RL	D	µg/Kg-dry	4/9/2008 3:15:00 AM
Fluoranthene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Fluorene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Indeno(1,2,3-cd)pyrene	81.6	<RL	D	µg/Kg-dry	4/9/2008 3:15:00 AM
Naphthalene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Phenanthrene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
Pyrene	81.6	<RL		µg/Kg-dry	4/9/2008 3:15:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	**Analyst: GV**
Methyl tert-butyl ether	2.4	<RL		µg/Kg-dry	4/15/2008
Benzene	2.4	<RL		µg/Kg-dry	4/15/2008
Toluene	2.4	<RL		µg/Kg-dry	4/15/2008
Ethylbenzene	2.4	3.0	M	µg/Kg-dry	4/15/2008
Xylenes, Total	8.1	8.2	M	µg/Kg-dry	4/15/2008
PERCENT MOISTURE		**D2974/SM2540G**			**Analyst: ND**
Percent Moisture	0.5	17.9		%	4/7/2008
Percent Solids	0.5	82.1		%	4/7/2008

TMI Analytical Services, LLC — Laboratory Results — Date: 16-Apr-08

CLIENT:	Midwest Environmental Services		
Lab Order:	0804042	**Client Sample ID:**	XW7
Lab ID:	0804042-016	**Collection Date:**	4/3/2008 1:50:00 PM
Project:	Freedom Oil Company, 08-24, Champaign	**Matrix:**	SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	**Analyst: KM**
Acenaphthene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Acenaphthylene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Anthracene	234	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Benz(a)anthracene	234	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Benzo(a)pyrene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Benzo(b)fluoranthene	390	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Benzo(g,h,i)perylene	234	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Benzo(k)fluoranthene	234	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Chrysene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Dibenz(a,h)anthracene	78.5	<RL	D	µg/Kg-dry	4/9/2008 3:58:00 AM
Fluoranthene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Fluorene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Indeno(1,2,3-cd)pyrene	78.5	<RL	D	µg/Kg-dry	4/9/2008 3:58:00 AM
Naphthalene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Phenanthrene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
Pyrene	78.5	<RL		µg/Kg-dry	4/9/2008 3:58:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	**Analyst: GV**
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/9/2008
Benzene	2.3	5.4		µg/Kg-dry	4/9/2008
Toluene	2.3	2.4		µg/Kg-dry	4/9/2008
Ethylbenzene	2.3	9.1		µg/Kg-dry	4/9/2008
Xylenes, Total	5.8	10.6		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		**D2974/SM2540G**			**Analyst: ND**
Percent Moisture	0.5	14.7		%	4/7/2008
Percent Solids	0.5	85.3		%	4/7/2008

TMI Analytical Services, LLC **Laboratory Results** **Date:** *16-Apr-08*

CLIENT: Midwest Environmental Services
Lab Order: 0804042 **Client Sample ID:** XW8
Lab ID: 0804042-017 **Collection Date:** 4/3/2008 2:00:00 PM
Project: Freedom Oil Company, 08.24, Champaign **Matrix:** SOLID

Analyses	RL	Result	Qual	Units	Date Analyzed
PNAS BY EPA 8270C		**SW8270C**		**(SW3550)**	Analyst: **KM**
Acenaphthene	78.0	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Acenaphthylene	78.0	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Anthracene	233	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Benz(a)anthracene	233	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Benzo(a)pyrene	78.0	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Benzo(b)fluoranthene	388	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Benzo(g,h,i)perylene	233	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Benzo(k)fluoranthene	233	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Chrysene	78.0	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Dibenz(a,h)anthracene	78.0	<RL	D	µg/Kg-dry	4/9/2008 4:41:00 AM
Fluoranthene	78.0	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Fluorene	78.0	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
Indeno(1,2,3-cd)pyrene	78.0	<RL	D	µg/Kg-dry	4/9/2008 4:41:00 AM
Naphthalene	78.0	626		µg/Kg-dry	4/9/2008 4:41:00 AM
Phenanthrene	78.0	107		µg/Kg-dry	4/9/2008 4:41:00 AM
Pyrene	78.0	<RL		µg/Kg-dry	4/9/2008 4:41:00 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS, BTE		**SW8260B**		**(SW5035/8260B)**	Analyst: **GV**
Methyl tert-butyl ether	2.3	<RL		µg/Kg-dry	4/15/2008
Benzene	2.3	5.1		µg/Kg-dry	4/15/2008
Toluene	2.3	<RL		µg/Kg-dry	4/15/2008
Ethylbenzene	9.9	229		µg/Kg-dry	4/9/2008
Xylenes, Total	24.7	85.2		µg/Kg-dry	4/9/2008
PERCENT MOISTURE		**D2974/SM2540G**			Analyst: **ND**
Percent Moisture	0.5	14.1		%	4/7/2008
Percent Solids	0.5	85.9		%	4/7/2008

APPENDIX B

MECRS SOIL SAMPLING PROTOCOL

SOIL SAMPLING PROTOCOL

TO BE USED WHEN SAMPLING L.U.S.T. SITE EXCAVATIONS

1. Sampling Methodology & Decontamination Procedures

   A. All sampling equipment to be used will be decontaminated using an alconox wash and distilled water rinse prior to and between samples.

   B. Soil samples will be collected from excavation extents using a stainless steel trowel. The trowel will be inserted into the soil several inches so as to collect an undisturbed sample. The sample will be immediately placed into a new, airtight, glass jar with a teflon lined lid*.

Representative grab samples will be collected along excavation sidewalls at a minimum of one sample per twenty feet of sidewall. When sidewall lengths exceed twenty feet, additional sidewall representative samples will be collected. Sidewall samples will be collected from an area parallel to the lower one-third of the tank.

Representative sampling of the excavation floor will require a minimum of two grab samples to be collected in areas representing the tank invert ends. If excavation floor extents exceed 400 square feet, additional representative samples will be collected at a minimum of one sample per additional 400 square feet.

If a release has occurred along product distribution lines, representative grab samples will be collected from below areas where distribution lines were previously located. These samples will be collected at twenty foot intervals.

2. Sample Storage and Transport

   A. Samples will be immediately placed on ice in an insulated cooler and chilled to 4 Celsius. Samples will be transported on ice to an IEPA certified laboratory as soon as possible.

   B. A chain of custody record will be kept for all laboratory analyzed samples.

*Encore sampling system will be substituted for glass jars when required.

APPENDIX C

OSFM REMOVAL NOTIFICATION AND REMOVAL PERMIT

OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
Division of Technical Services
1035 Stevenson Drive
Springfield, Illinois 62703-4259
(217)524-7605

FOR OFFICE USE ONLY
Facility # 4-016556
Permit # 00348-2008REM
Request Rec'd 03/12/2008
Amended Date
Approval Date 3/12/2008 DS
Permit Expires 9/12/2008

Permit for REMOVAL of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to remove underground storage tank(s) or piping is hereby granted. Such removal shall not commence until the contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall establish a date certain to perform the UST activity by contacting the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety, by telephone at the Springfield office between 8:30 a.m. and 12:00 p.m., at which time a mutually agreed upon date and time for the UST activity shall be scheduled. **THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.**

(1) OWNER OF TANKS - Corporation, partnership, or other business entity:	(2) FACILITY - name and address where tanks are located:
Freedom Oil Company P. O. Box 3697, Bloomington, IL 61702-3697 Contact: Gene Adams (309) 828-7750	Freedom Oil #32 1406 N Prospect Champaign, Champaign Co., IL Contact: Adams Gene (309) 828-7750

(3) REMOVAL OF TANKS:

(a) Number and size of tanks being removed: (TK # 1) - 6,000 gallons

(b) Product stored in each tank: (TK # 1) - Diesel Fuel

(c) Reason of tanks being removed: Tank is leaking

(d) If tank(s) is leaking, indicate IEMA incident number: 080255

(e) Date each tank was last used: (TK # 1)

(4) **The owner must notify this Office when completion of tank removal has occurred, on the Notification for Underground Storage Tank Form This form can be obtained at www.state.il.us/osfm or by calling (217)785-1020. After removal is completed, the owner/operator shall perform a site assessment by measuring for the presence of a release where contamination is most likely to be present at the UST site. This is in accordance with the Illinois Administrative Code 170.640 (a) regulations and 40 CFR Part 280.72 (a) Federal Register Requirement.**

(5) SPECIAL CONTINGENCIES:

(6) PERSON, FIRM OR COMPANY PERFORMING WORK:

IL Oil Marketing Equipment, Inc.
850 Brenkman Drive
Pekin, IL 61554

Contact Person: Chris Epkins
Phone: (309) 347-1819

Contractor Registration # IL-1293 Exp. 02/04/2010

Sincerely,

Daniel S. Starks

Daniel Starks

cc: Storage Tank Safety Specialist -
Fire Department -
Office Coordinator -
Division File
(Rev. - 6/07)

IL Notification for Underground Storage Tanks

OFFICE USE ONLY
ID NUMBER
DATE RECEIVED

- A separate form must be used for each site.
- If you have more than five tanks, photocopy pages 1-5 and attach to this notification form.
- Please type, or print in ink; the signature under "certification" (section IX) must be signed in Ink.

Facility I.D. # (if known) 4-016556 Owner I.D. # (if known) _____

TYPE OF NOTIFICATION

☐ New Facility ☑ Amended (Changes/Corrections/Additional Tanks) Mark all that apply:

___ Owner Address Change (this facility only)
___ Owner Address Change (all facilities owned)
___ New Owner
☑ Tank(s) Removed (Permit # 00348 - 2008 REM
___ Other _____

___ Tanks Relined (Permit # _____)
___ Tanks Installed (Permit # _____)
___ Tanks Upgraded/Repaired (Permit # _____)
___ Abandonment Notice (Permit # _____)

I. Ownership of Tank(s)

Owner Name (Corp., Individual., Public Agency or other Entity): FREEDOM OIL Co
Mailing Address: P.O BOX 3697
City: BLOOMINGTON State: IL Zip: 61702-3697
County:
Contact Name: (Area Code) Phone:

II. Location of Tank(s)

(if same as Section I, Mark box) ☐

Facility Name or Company Site Identifier, as applicable: FREEDOM OIL #32
Street Address or State Road, as applicable (exact address): 1406 N. PROSPECT ST
City: CHAMPAIGN State: IL Zip: 61820
County: CHAMPAIGN
Contact Name: (Area Code) Phone:

III. TYPE OF OWNERSHIP (mark all that apply)

☑ Current Owner of Tanks Date Purchased 5/1/01
☐ Former Owner
☐ Ownership Uncertain _____
☐ Other _____

IV. TYPE OF FACILITY

Type of Facility: (Circle correct code)

A. Service Station
B. Bulk Plant
C. Petroleum Distributor
D. Convenience Store
E. Auto Dealer
F. Commercial/Retail
G. Industrial/Manufacturing
H. Private Institution
I. Residence (Non-Farm)
J. Farm
K. Airport
L. Marina
M. City/Town
N. County
O. State
P. Federal (Military)
Q. Federal (Non-Military)
R. School District
S. Port District
T. Utility District
U. Fire Dept.
V. Other Special Service Districts
W. Other _____ (Please Specify)

V. Description of Underground Storage Tanks (Complete entire column for each tank)					
Tank Identification Number	Tank No. 1	Tank No. ___	Tank No. ___	Tank No. ___	Tank No. ___
1. Status of Tanks					
Currently in use	☐	☐	☐	☐	☐
Temporarily out of use (Section 2 must be completed)	☐	☐	☐	☐	☐
Permanently out of use (Section 2 must be completed)	☐	☐	☐	☐	☐
Removed (Section 3 must be completed)	☑	☐	☐	☐	☐
Abandoned in place (Section 4 must be completed)	☐	☐	☐	☐	☐
2. Tanks Permanently & Temporarily Out of Use					
Estimated date last used	/ /	/ /	/ /	/ /	/ /
3. Tanks Removed					
Date tank(s) removed	4/1/08	/ /	/ /	/ /	/ /
Estimated date last used	12/15/07	/ /	/ /	/ /	/ /
4. Abandoned in Place					
Date tanks filled	/ /	/ /	/ /	/ /	/ /
Tank filled with:					
Inert materials (sand, etc.)	☐	☐	☐	☐	☐
Water	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other (please specify)					
5. Age of Tank					
Date tank installed	/ /	/ /	/ /	/ /	/ /
Date product placed in tank	/ /	/ /	/ /	/ /	/ /
6. Estimated Total Capacity (gallons)	6000				
7. Substances Currently or Last Stored:					
Petroleum					
Diesel	☑	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline	☐	☐	☐	☐	☐
Used oil	☐	☐	☐	☐	☐
Other (Please specify)					
Petroleum Use (if applicable):					
Heating oil (consumptive use on premises)	☐	☐	☐	☐	☐
Back-up generator	☐	☐	☐	☐	☐
Other (please specify)					
Hazardous Substance:					
Name of principal CERCLA substance					
Chemical Abstract Service (CAS No)					

VII. Certification of Compliance (Complete for all new, upgraded and relined tanks at this location)

Installation (mark all that apply)					
Installer certified by tank and piping manufacturers	☐	☐	☐	☐	☐
Installer certified or licensed by implementing agency	☐	☐	☐	☐	☐
Installer registered by implementing agency	☐	☐	☐	☐	☐
Installer is the owner of the tank(s)	☐	☐	☐	☐	☐
Installation inspected by a registered engineer	☐	☐	☐	☐	☐
Installation inspected & approved by implementing agency	☐	☐	☐	☐	☐
Manufacturer's installation checklists have been completed	☐	☐	☐	☐	☐
Another method allowed by state agency (please specify)	_____	_____	_____	_____	_____

OATH: I certify the information that is provided in section VII is true to the best of my knowledge, and certify that the installation was performed in accordance with all applicable state and federal laws and regulations. **(THIS SECTION MAY ONLY BE COMPLETED BY THE CONTRACTOR. SEPARATE OATH MUST BE SUBMITTED FOR EACH ACTIVITY PERFORMED BY DIFFERENT CONTRACTOR.)**

Tank No. _____ Permit No. _____

Contractor: _____ (Name) _____ (Signature (must be original)) _____ (Date)

_____ (Position) _____ (Company)

VIII. Financial Responsibility

Mark all that apply:

☐ Self-Insurance ☐ Guarantee ☐ Certificate of Deposit

☐ Commercial Insurance ☐ Surety Bond ☐ Trust Fund

☐ Risk Retention Group ☐ Letter of Credit ☐ Other Method Allowed

(please specify) _____

IX. Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.

CHRIS EPKINS AGENT FOR OWNER (HOME) — Name and official title of owner or owner's authorized representative (print)

Chris Epkins — Signature (must be original)

4/9/08 — Date Signed

OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
Division of Technical Services
1035 Stevenson Drive
Springfield, Illinois 62703-4259
(217)524-7605

FOR OFFICE USE ONLY
Facility # 4-016556
Permit # 00334-2008ABN
Request Rec'd 03/05/2008
Amended Date
Approval Date 3/10/2008 JC
Permit Expires 9/10/2008

Permit for ABANDONMENT IN PLACE of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to abandon in place underground storage tank(s) or piping is hereby granted. Such abandonment must be in complete accordance with acceptable materials as specified in the Federal Register, Part II Environmental Protection Agency, 40 CFR Parts 280 and 281, and also with all sections of 41 Illinois Administrative Code, Part 170. The contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall establish a date certain to perform the UST activity by contacting the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety, by telephone at the Springfield office between 8:30 a.m. and 12:00 p.m., at which time a mutually agreed upon date and time for the UST activity shall be scheduled. **THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.**

(1) OWNER OF TANKS - Corporation, partnership, or other business entity:	(2) FACILITY - name and address where tanks are located:
Freedom Oil Company P. O. Box 3697, Bloomington, IL 61702-3697 Contact: Gene Adams (309) 828-7750	Freedom Oil #32 1406 N Prospect Champaign, Champaign Co., IL Contact: Adams Gene (309) 828-7750

(3) **ABANDONMENT IN PLACE OF TANKS:**

(a) Number and size tanks being abandoned: (TK # 2) - 10,000 gallons, (TK # 3, 4) - 6,000 gallons, (TK # 5) - 2,000 gallons

(b) Location of tanks being abandoned: CONTAMINATED SITE! IEMA Number: 080255

(4) This permit is VOID if contamination is revealed during abandonment procedures or if tanks are not as indicated on your granted permit site plan. If contamination is revealed, this abandonment can continue only when the contaminated site section (2) of the certification on site condition has been submitted to our Office.

(5) SPECIAL CONTINGENCIES: **These tanks are in close proximity to the canopy columns. Removal may undermine the structural support of the canopy. Portions of the old piping that will not be re-used for the new system will be abandoned in place, and the remaining portions will be re-used and tied into the new tank piping system and dispensers (see site plan). Tank #1 will have to be removed with a separate removal permit per Dale Tanke 03/10/08. Tanks 7 & 8 will be installed with a separate install permit. New piping for tanks 7 & 8 will "tie in" to the existing piping with a transition sump.**

(6) **The owner must notify this Office when completion of tank abandonment has occurred, on the Notification for Underground Storage Tank Form. This form can be obtained at www.state.il.us/osfm or by calling (217)785-1020.**

(7) PERSON, FIRM OR COMPANY PERFORMING WORK:

IL Oil Marketing Equipment, Inc.
850 Brenkman Drive
Pekin, IL 61554

Contact Person: Chris Epkins
Phone: (309) 347-1819

Contractor Registration # IL-1293 Exp. 02/04/2010

Sincerely,

James J. Coffey

Jim Coffey

cc: Storage Tank Safety Specialist -
Fire Department -
Office Coordinator -
Division File
(Rev. - 1/98)

IL Notification for Underground Storage Tanks

- A separate form must be used for each site.
- If you have more than five tanks, photocopy pages 1-5 and attach to this notification form.
- Please type, or print in ink; the signature under "certification" (section IX) must be signed in Ink.

OFFICE USE ONLY
ID NUMBER
DATE RECEIVED

Facility I.D. # (if known) 4-016556 Owner I.D. # (if known) _____

TYPE OF NOTIFICATION

☐ New Facility ☑ Amended (Changes/Corrections/Additional Tanks) Mark all that apply:

___ Owner Address Change (this facility only)
___ Owner Address Change (all facilities owned)
___ New Owner
___ Tank(s) Removed (Permit # _____)
___ Tanks Relined (Permit # _____)
___ Tanks Installed (Permit # _____)
___ Tanks Upgraded/Repaired (Permit # _____)
✓ Abandonment Notice (Permit # 00334-2008 ABN)
___ Other _____

I. Ownership of Tank(s)

Owner Name (Corp., Individual., Public Agency or other Entity): FREEDOM OIL CO

Mailing Address: P.O BOX 3697

City: BLOOMINGTON State: IL Zip: 61702-3697

County:

Contact Name: (Area Code) Phone:

II. Location of Tank(s)

(if same as Section I, Mark box) ☐

Facility Name or Company Site Identifier, as applicable: FREEDOM OIL CO #32

Street Address or State Road, as applicable (exact address): 1406 N. PROSPECT ST.

City: CHAMPAIGN State: IL Zip: 61820

County: CHAMPAIGN

Contact Name: (Area Code) Phone:

III. TYPE OF OWNERSHIP (mark all that apply)

☑ Current Owner of Tanks Date Purchased 5/1/01
☐ Former Owner
☐ Ownership Uncertain _____
☐ Other _____

IV. TYPE OF FACILITY

Type of Facility: (Circle correct code)

A. Service Station
B. Bulk Plant
C. ~~Petroleum Distributor~~
D. Convenience Store
E. Auto Dealer
F. Commercial/Retail
G. Industrial/Manufacturing
H. Private Institution
I. Residence (Non-Farm)
J. Farm
K. Airport
L. Marina
M. City/Town
N. County
O. State
P. Federal (Military)
Q. Federal (Non-Military)
R. School District
S. Port District
T. Utility District
U. Fire Dept.
V. Other Special Service Districts
W. Other _____ (Please Specify)

V. Description of Underground Storage Tanks (Complete entire column for each tank)					
Tank Identification Number	Tank No. 2	Tank No. 3	Tank No. 4	Tank No. 5	Tank No.
1. Status of Tanks					
Currently in use	☐	☐	☐	☐	☐
Temporarily out of use (Section 2 must be completed)	☐	☐	☐	☐	☐
Permanently out of use (Section 2 must be completed)	☐	☐	☐	☐	☐
Removed (Section 3 must be completed)	☐	☐	☐	☐	☐
Abandoned in place (Section 4 must be completed)	☑	☑	☑	☑	☐
2. Tanks Permanently & Temporarily Out of Use					
Estimated date last used	/ /	/ /	/ /	/ /	/ /
3. Tanks Removed					
Date tank(s) removed	/ /	/ /	/ /	/ /	/ /
Estimated date last used	/ /	/ /	/ /	/ /	/ /
4. Abandoned in Place					
Date tanks filled	4/9/08	4/9/08	4/9/08	4/9/08	/ /
Tank filled with:					
Inert materials (sand, etc.)	☑	☑	☑	☑	☐
Water	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other (please specify)					
5. Age of Tank					
Date tank installed	/ /	/ /	/ /	/ /	/ /
Date product placed in tank	/ /	/ /	/ /	/ /	/ /
6. Estimated Total Capacity (gallons)	10,000	6,000	6,000	2,000	
7. Substances Currently or Last Stored:					
Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline	☑	☑	☑	☑	☐
Used oil	☐	☐	☐	☐	☐
Other (Please specify)					
Petroleum Use (if applicable):					
Heating oil (consumptive use on premises)	☐	☐	☐	☐	☐
Back-up generator	☐	☐	☐	☐	☐
Other (please specify)					
Hazardous Substance:					
Name of principal CERCLA substance					
Chemical Abstract Service (CAS No)					

VII. Certification of Compliance (Complete for all new, upgraded and relined tanks at this location)

Installation (mark all that apply)					
Installer certified by tank and piping manufacturers	☐	☐	☐	☐	☐
Installer certified or licensed by implementing agency	☐	☐	☐	☐	☐
Installer registered by implementing agency	☐	☐	☐	☐	☐
Installer is the owner of the tank(s)	☐	☐	☐	☐	☐
Installation inspected by a registered engineer	☐	☐	☐	☐	☐
Installation inspected & approved by implementing agency	☐	☐	☐	☐	☐
Manufacturer's installation checklists have been completed	☐	☐	☐	☐	☐
Another method allowed by state agency (please specify)	_____	_____	_____	_____	_____

OATH: I certify the information that is provided in section VII is true to the best of my knowledge, and certify that the installation was performed in accordance with all applicable state and federal laws and regulations. **(THIS SECTION MAY ONLY BE COMPLETED BY THE CONTRACTOR. SEPARATE OATH MUST BE SUBMITTED FOR EACH ACTIVITY PERFORMED BY DIFFERENT CONTRACTOR.)**

Tank No. _____ Permit No. _____

Contractor: _____ (Name) _____ (Signature (must be original)) _____ (Date)

_____ (Position) _____ (Company)

VIII. Financial Responsibility

Mark all that apply:

☐ Self-Insurance ☐ Guarantee ☐ Certificate of Deposit

☐ Commercial Insurance ☐ Surety Bond ☐ Trust Fund

☐ Risk Retention Group ☐ Letter of Credit ☐ Other Method Allowed

(please specify) _____

IX. Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.

CHRIS EPKINS AGENT FOR OWNER (TOWNE) — Name and official title of owner or owner's authorized representative (print)

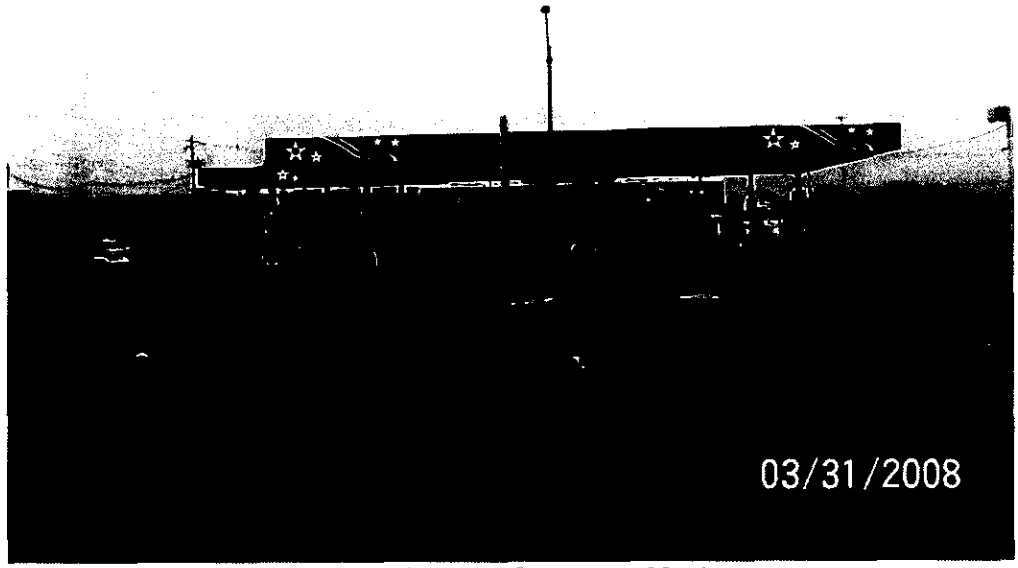
Chris Epkins — Signature (must be original)

4/10/08 — Date Signed

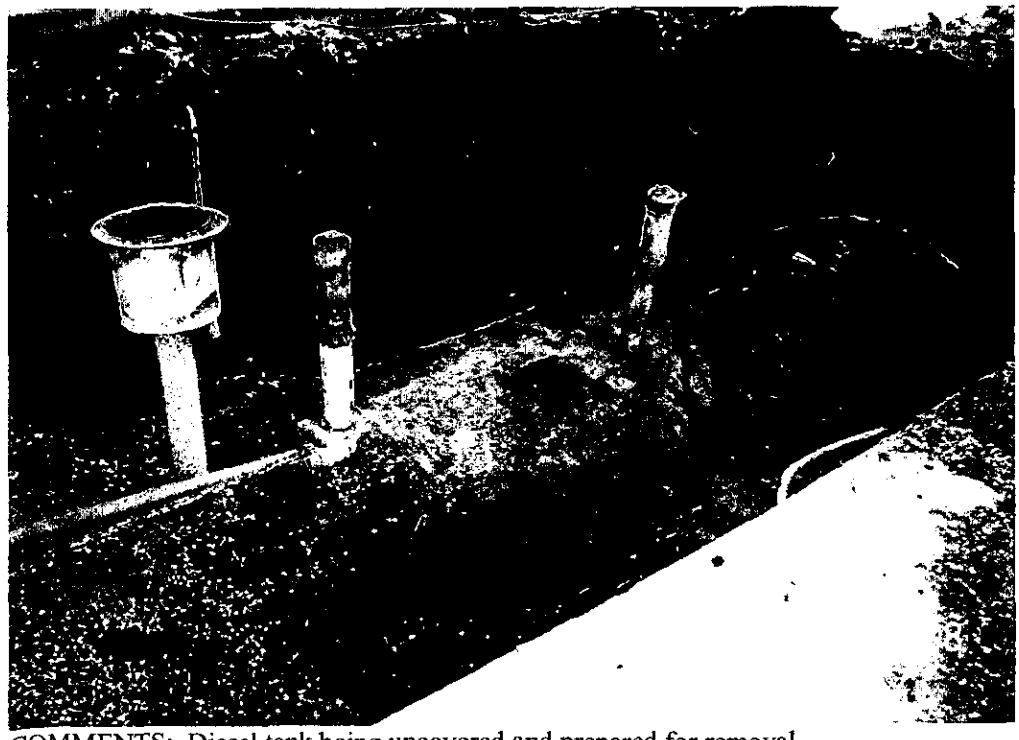
APPENDIX D

EARLY ACTION PHOTOGRAPHS

DATE: 4/18/08
SITE NAME: Freedom Oil Company, 1406 North Prospect – Early Action Photographs
PHOTOGRAPHS BY: A. Fetterolf



COMMENTS: View of the site looking east from across North Prospect.



COMMENTS: Diesel tank being uncovered and prepared for removal.

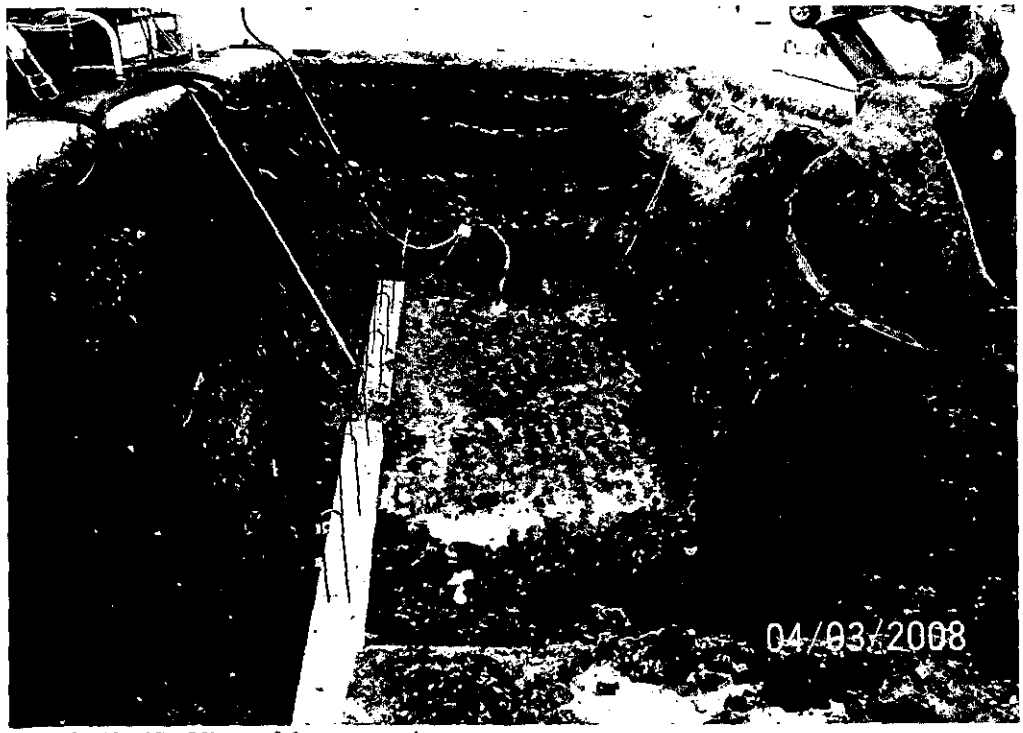
DATE: 4/18/08
SITE NAME: Freedom Oil Company, 1406 North Prospect – Early Action Photographs
PHOTOGRAPHS BY: A. Fetterolf

COMMENTS: Bottom on the tank pit where the diesel tank was located.

COMMENTS: Diesel tank removed and ready for cleaning.

DATE: 4/18/08
SITE NAME: Freedom Oil Company, 1406 North Prospect – Early Action Photographs
PHOTOGRAPHS BY: A. Fetterolf

COMMENTS: Inside of the diesel tank before cleaning.



COMMENTS: View of the excavation.

Myers

Midwest Environmental Consulting & Remediation Services Inc.

22200 Illinois Route 9 • P.O. Box 614
Tremont, IL 61568-0614
Phone: (309) 925-5551 • Fax: (309) 925-5606

0190105433 - Champaign
Freedom Oil Co
Leaking
LUST Tech File

July 1, 2013

Illinois Environmental Protection Agency
Bureau of Land -- #24/LUST Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
attn: Mr. Dave Myers

Re: LPC #0910105433 – Champaign County
Freedom Oil Company
1406 North Prospect
Champaign, Illinois 61820
Incident #20080255
LUST Technical File

Dear Mr. Myers:

Please find attached the Corrective Action Work Plan (CAP) and Budget for the above referenced site.

If you have any questions or comments feel free to contact my office.

Sincerely,

Midwest Environmental Consulting & Remediation Services, Inc.

Allan Green
President

AJF/glg
Job No. 08-24
cc: Mr. Mark Eckhoff

CORRECTIVE ACTION PLAN AND BUDGET

FREEDOM OIL COMPANY
1406 NORTH PROSPECT
CHAMPAIGN, ILLINOIS 61820
LPC #0910105433 INCIDENT #20080255

JULY 1, 2013

Midwest Environmental Consulting &
Remediation Services Inc.

LEAKING UNDERGROUND STORAGE TANK PROGRAM

Corrective Action Work Plan

Subject Site:
Freedom Oil Company
1406 North Prospect
Champaign, Illinois 61820
Incident #20080255
LPC #0910105433 – Champaign County

Prepared for:
Freedom Oil Company
814 West Chestnut Street
Bloomington, Illinois 61701
(309) 828-7750
Contact: Mr. Mark Eckhoff

Prepared by:
Midwest Environmental Consulting and Remediation Services, Inc.
22200 Illinois Route 9
Post Office Box 614
Tremont, Illinois 61568-0614
Contact: Allan Green, President

For Review by:
Illinois Environmental Protection Agency
Bureau of Land - #24
Leaking Underground Storage Tank Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

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CORRECTIVE ACTION WORK PLAN

IEPA CORRECTION ACTION PLAN FORM

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Corrective Action Plan

A. Site Identification

0190105433

IEMA Incident # (6- or 8-digit): 20080255 IEPA LPC# (10-digit): ~~0910105433~~

Site Name: Freedom Oil Company

Site Address (Not a P.O. Box): 1406 North Prospect

City: Champaign County: Champaign ZIP Code: 61820

Leaking UST Technical File

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 and diesel fuel
5. This Corrective Action Plan is submitted pursuant to:
   - a. 35 Ill. Adm. Code 731.166 ☐
     The material released was:
     -petroleum ☐
     -hazardous substance (see Environmental Protection Act Section 3.215) ☐
   - b. 35 Ill. Adm. Code 732.404 ☐
   - c. 35 Ill. Adm. Code 734.335 ☑

C. Proposed Methods of Remediation

1. Soil TACO analysis/excavation
2. Groundwater TACO analysis

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;

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.

15. Property Owner Summary form.

F. 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 pH ≤ 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: Freedom Oil Company
Contact: Mr. Mark Eckhoff
Address: 814 West Chestnut Street
City: Bloomington
State: Illinois
ZIP Code: 61702
Phone: (309) 828-7750
Signature:
Date: 6-26-13

Consultant

Company: M.E.C.R.S.
Contact: Mr. Allan Green
Address: 22200 IL Route 9, P.O. Box 614
City: Tremont
State: Illinois
ZIP Code: 61568
Phone: (309) 925-5551
Signature:
Date: June 13, 2013

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: Penny Silzer
Company: Midwest Environmental
Address: 22200 IL Route 9, P.O. Box 614
City: Tremont
State: Illinois
ZIP Code: 61568
Phone: (309) 925-5551
Ill. Registration No.: 196-000256
License Expiration Date: 03/31/15
Signature:
Date: 7/1/13

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

RECEIVED
JUL 08 2013
IEPA/BOL

Corrective Action Plan

Section E. Technical Information – Corrective Action Plan

MECRS proposes a phased approach to corrective action at the site. First, on-site contaminated soils above site specific Tier 2 cleanup objectives will be excavated. Additionally, at the request of the adjacent off-site property owner, additional soil samples will be collected to the south of MW-1 to determine the full degree and extent of contamination. If contaminated soils are encountered, an amended CAP and budget will be submitted to propose excavation of soils to the south of the site to Tier 1 cleanup objectives. Second, groundwater quality will be monitored following excavation activities, to determine the need for additional corrective action, institutional controls, and/or engineered barriers. Third, a TACO analysis will be completed based on the results of the excavation soil samples and post excavation groundwater data. The TACO results may indicate the need for additional corrective action to address off-site contamination such as engineered barriers and/or institutional controls including a Highway Authority Agreement with the city of Champaign for Prospect Avenue to the west.

1. Executive summary identifying the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives.

A Site Investigation was conducted and completed as reported in the Site Investigation Completion Report dated 7/11/11. As part of the Corrective Action activities, a Tiered Approach to Cleanup Objectives (TACO) evaluation of the site was conducted. The residential exposure scenario was eliminated by limiting land use to industrial/commercial. MECRS proposes to eliminate exposure pathways for the industrial/commercial population by excavating the contaminated soils on-site. BTEX and PNA concentrations in soil do not exceed the ingestion exposure pathway for the construction worker exposure scenario. Alternative CUOs for BTEX and PNAs in soil were developed for the inhalation exposure pathway for the construction worker population. Calculation of the Tier 2 CUOs for the construction worker and the inhalation exposure pathway indicate that concentrations of BTEX and PNAs above Tier 2 CUOs remain in the soil and need to be addressed.

The extent of contamination above Tier 2 objectives has been defined. Significant subsurface petroleum hydrocarbon concentrations exist in the vicinity of the gasoline and diesel fuel underground storage tanks. The high levels of BTEX and PNAs that exist in the vicinity of the fueling islands are evidence that both the gasoline tanks and the diesel tank at the site have had a release. MECRS proposes to address the concentrations of BTEX and PNAs in the native soil by removing the diesel tank and abandoning-in-place the gasoline tanks that would be incredibly difficult to remove. In addition, MECRS proposes to remove all accessible contaminated soils in the vicinity of the fueling islands. It is anticipated that the accessible soils to the west of the fueling island near MW-3 and the accessible soils to the north of the fueling islands that are part of the TACO plume will need to be removed. Approximately 1,185 cubic yards of contaminated soils will be removed from the site. Appropriate soil samples will be retrieved from the excavation extents to verify successful removal of contaminated soils. The excavation will be backfilled with clean material and the existing pavement will be replaced. Additionally, the owner of the off-site properties to the north and south of the subject site has requested that his properties be cleaned up to the fullest extent possible. The only contamination that can

potentially migrate to the property to the north is present in groundwater samples collected from MW-9. The contamination that can potentially migrate to the property to the south is present in soil samples collected from MW-1. MECRS proposes three additional soil borings, as shown in Figure 9, in the immediate vicinity of MW-1 at the southern property boundary to determine the extent of migration of contamination to the south. The borings will be completed prior to the previously outlined excavation activities. If it is determined that the contamination present in the soil at MW-1 has migrated to the south, an amended Corrective Action budget will be submitted to propose an additional excavation of off-site soils to meet Tier 1 CUOs.

The TACO evaluation is presented in Appendix C. Site maps are included in Figures 1 through 9. A budget for the proposed scope of work for this phase of corrective action is provided in Appendix D.

2. Identification of the remediation objectives proposed for the site.

The materials released at the site were gasoline and diesel fuel. The indicator contaminants for gasoline and diesel fuel are benzene, toluene, ethylbenzene, and xylenes (BTEX) and poly-nuclear aromatics (PNAs). The only PNA with levels above Tier 1 CUOs during the entire sampling process has been naphthalene. Institutional controls will limit land use to industrial/commercial. Depth to the water has been above ten (10) feet of the ground surface. Based on groundwater above ten (10) feet of the ground surface, groundwater should be classified as Class II groundwater. Initial cleanup objectives are based on IEPA Tier 1 objectives for industrial/commercial property and Class II groundwater.

The soil sampling parameters and corresponding CUOs are:

Analyte	**Method**	**CUO (Tier 1)**
MTBE	EPA 5035/8021B	320.0 μg/kg
BTEX		
Benzene	EPA 5035/8021B	30.0 μg/kg
Toluene	EPA 5035/8021B	12,000 μg/kg
Ethylbenzene	EPA 5035/8021B	13,000 μg/kg
Xylenes	EPA 5035/8021B	5,600 μg/kg
PNA		
Naphthalene	EPA 8270C	1,800 μg/kg

MTBE concentrations in soil do not exceed the Tier 1 CUO for Class II groundwater in any of the samples collected.

Benzene concentration in soil exceed the Tier 1 CUO for Class II groundwater in samples MW-1 (7'), MW-3 (5'), MW-3 (7'), LF-2, and LF-3.

Toluene concentration in soil do not exceed the Tier 1 CUO for Class II groundwater in any of the samples collected.

Ethylbenzene concentration in soil exceed the Tier 1 CUO for Class II groundwater in samples MW-3 (7').

Total Xylenes concentration in soil exceed the Tier 1 CUO for Class II groundwater in samples MW-3 (5') and MW-3 (7').

Naphthalene concentration in soil exceed the Tier 1 CUO for Class II groundwater in samples MW-3 (7').

Tier 2 CUOs were calculated using the TACO Plus! Version 1.3.0. developed by ATR Associated, Inc., Arlington, Virginia and the SSL equations. Based on information gathered during site investigation activities, historical trend for groundwater flow direction is towards the north/northeast. The hydraulic gradient across the site is approximately .021 ft/ft. The TACO plume is shown in Figure 3. The soil contaminant plume width (clean boring to clean boring) is approximately 267 ft or 81m (perpendicular to groundwater flow in the horizontal plane) and approximately 8 ft or 2.5m thick (perpendicular to groundwater flow in the vertical plane). The hydraulic conductivity value, 5.32 X 10^{-5} cm/sec, was determined during Site Investigation activities.

The following site specific values were used:

Sample #	pH	foc	Bulk Density	Soil Particle Density	Total Soil Porosity	Percent Moisture
surface	7.40	2.90%	1.26 g/cm^3	2.52	0.50	42.8%
subsurface	7.77	0.87%	1.50 g/cm^3	2.64	0.43	27.8%

The following Tier 2 CUOs were calculated for Benzene:

EXPOSURE POPULATION	Exposure Scenario	Benzene CUO
Industrial/Commercial	Inhalation	1,480 ppb
Industrial/Commercial	Ingestion	197,350 ppb
Construction Worker	Inhalation	2,080 ppb
Construction Worker	Ingestion	4,282,810 ppb
Protection of Groundwater	--	366.2 ppb

Benzene concentrations exceed the calculated Tier 2 CUOs in soil samples MW-3 (5'), MW-3 (7'), and LF-3. MECRS proposes to excavate as described above.

The following Tier 2 CUOs were calculated for Ethylbenzene:

EXPOSURE POPULATION	Exposure Scenario	E-Benzene CUO
Industrial/Commercial	Inhalation	1,814,350 ppb
Industrial/Commercial	Ingestion	204,400,000 ppb
Construction Worker	Inhalation	51,250 ppb
Construction Worker	Ingestion	20,404,510 ppb
Protection of Groundwater	--	67,730.5 ppb

Ethylbenzene concentrations exceed the calculated Tier 2 CUOs in soil sample MW-3 (7'). MECRS proposes to excavate as described above.

The following Tier 2 CUOs were calculated for Total Xylenes:

EXPOSURE POPULATION	Exposure Scenario	Xylenes CUO
Industrial/Commercial	Inhalation	1,437,500 ppb
Industrial/Commercial	Ingestion	1×10^9 ppb
Construction Worker	Inhalation	20,350 ppb
Construction Worker	Ingestion	408,090,290 ppb
Protection of Groundwater	--	462,024 ppb

Total xylene concentrations exceed the calculated Tier 2 CUOs in soil samples MW-3 (5') and MW-3 (7'). MECRS proposes to excavate as described above.

The following Tier 2 CUOs were calculated for Naphthalene:

EXPOSURE POPULATION	Exposure Scenario	Naphthalene CUO
Industrial/Commercial	Inhalation	243,870 ppb
Industrial/Commercial	Ingestion	81,760,000 ppb
Construction Worker	Inhalation	1,580 ppb
Construction Worker	Ingestion	8,161,810 ppb
Protection of Groundwater	--	13,729.4 ppb

Naphthalene concentrations exceed the calculated Tier 2 CUOs in soil sample MW-3 (7'). MECRS proposes to excavate as described above.

TACO calculation input parameters and supporting documents created with TACO Plus! are attached.

All laboratory data is presented in Tables 1 and 2. All sample locations are shown in Figure 2. The extent of soil contamination above Tier 2 CUOs is shown in Figure 4. The proposed excavation area is shown in Figure 5.

3. A description of the remedial technologies selected.

Excavation and disposal has been proven to be effective in immediately removing major sources of soil contamination. Excavation is proposed to remove the source of contamination at the site which is the area to the west and northwest of the station building and canopy. It is our belief that the elimination of the contaminant source material will have a significant effect on contaminant concentrations in downgradient areas at the site. An area of approximately 3,200 square feet will be excavated to a depth of approximately 10 feet or until the groundwater table is encountered (approximately 1,185 cubic yards). The proposed excavation area is shown in Figure 5.

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.

During excavation activities, samples will be retrieved from the excavation extents. One sample will be obtained from every 20 linear feet of sidewall, and one sample from every 400 square feet of floor for a total of 21 wall samples and 8 floor samples. Samples will be submitted for laboratory analysis of BTEX and PNAs. Sample results will be compared to the calculated Tier 2 CUOs for cleanup verification. MECRS also proposes to collect groundwater samples from all wells following excavation activities. MECRS sampling protocol is provided in Appendix B.

5. A description of the current and projected future uses of the site.

The site is currently being used as a gas station and convenience store.

6. A description of engineered barriers or institutional controls that will be relied upon to achieve remediation objectives.

An industrial/commercial land use restriction will be placed on the site. At this time, no additional preventive, engineering, or institutional controls are proposed. However, paving on the lot may be proposed in the future for use as an engineered barrier, if necessary.

7. The water supply well survey.

The water well survey was reported in the 45-Day report.

8. Appendices.

Please see Appendix A for TACO parameter lab results.
Please see Appendix B for sampling protocol.
Please see Appendix C for the TACO Study.
Please see Appendix D for the Corrective Action Plan Budget

9. Site map(s) meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440.

Please see Figure 1 through 6.

10. Engineering design specifications, diagrams, schematics, calculations, manufacture's specifications, etc.

Not applicable

11. A description of bench/pilot studies.

Not applicable.

12. Cost comparison between proposed method of remediation and other methods of remediation.

Not applicable.

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.**

For a complete description of the TACO study, please see Appendix C.

14. Provide documentation to demonstrate that 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 form the date of Illinois EPA approval, the owner or operator will provide 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.**

Not applicable.

15. Property Owner Summary form.

Will be submitted with the Corrective Action Completion Report.

Section F. Exposure Pathway Exclusion

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 pH $\leq$ 2.0 or $\geq$ 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.**

Not applicable.

2. **A discussion of how any exposure pathways are to be excluded.**

For a complete description of exposure pathway exclusion please see the TACO study in Appendix C.

Table 1

Site Investigation Soil Analytical Data

SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-1 3' 08/19/08	MW-1 7' 08/19/08	MW-1 13' 08/19/08	MW-1 17' 08/19/08	MW-2 3' 08/19/08	MW-2 9' 08/19/08	MW-2 15' 08/19/08
MTBE	320	<MDL	<MDL	73.9	21.3	<MDL	<MDL	13.6
Benzene	30	<MDL	140	2.2	1.9	4.3	13.1	3.0
Toluene	12,000	<MDL	<MDL	2.9	2.3	2.7	<MDL	5.4
Ethylbenzene	13,000	5.0	5,460	2.2	<MDL	2.8	61.5	3.1
Total Xylenes	5,600	7.1	519	<MDL	<MDL	7.3	124	7.4
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	127	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	84.6	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	190	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	570	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-3 5' 08/19/08	MW-3 7' 08/19/08	MW-3 13' 08/19/08	MW-4 3' 08/19/08	MW-4 7' 08/19/08	MW-4 13' 08/19/08	MW-5 3' 08/19/08
MTBE	320	<MDL	<MDL	26.0	<MDL	<MDL	6.3	<MDL
Benzene	30	6,350	3,120	2.9	<MDL	3.1	3.1	<MDL
Toluene	12,000	514	619	2.4	<MDL	4.5	5.5	1.6
Ethylbenzene	13,000	11,500	106,000	3.7	<MDL	9.5	4.0	<MDL
Total Xylenes	5,600	27,400	428,000	10.9	<MDL	14.0	9.1	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	205	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	367	2,830	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	106	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	209	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-5 7' 08/19/08	MW-5 13' 08/19/08	B-1 3' 01/25/11	B-1 7' 01/25/11	B-1 12' 01/25/11	B-2 3' 01/25/11	B-2 7' 01/25/11
MTBE	320	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzene	30	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Toluene	12,000	<MDL	<MDL	<MDL	7.36	<MDL	<MDL	<MDL
Ethylbenzene	13,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Total Xylenes	5,600	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	B-2 12' 01/25/11	MW-6 3' 03/24/11	MW-6 7' 03/24/11	MW-7 3' 03/24/11	MW-7 7' 03/24/11	MW-8 3' 03/24/11	MW-8 7' 03/24/11
MTBE	320	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzene	30	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Toluene	12,000	<MDL	<MDL	<MDL	<MDL	4.65	<MDL	<MDL
Ethylbenzene	13,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Total Xylenes	5,600	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-9 3' 03/24/11	MW-9 7' 03/24/11					
MTBE	320	<MDL	<MDL					
Benzene	30	<MDL	<MDL					
Toluene	12,000	<MDL	9.06					
Ethylbenzene	13,000	<MDL	<MDL					
Total Xylenes	5,600	<MDL	<MDL					
PNAs								
Acenapthene	570,000	<MDL	<MDL					
Acenapthylene	XX	<MDL	<MDL					
Anthracene	12,000,000	<MDL	<MDL					
Benzo (a) Anthracene	2,000	<MDL	<MDL					
Benzo (a) Pyrene	800	<MDL	<MDL					
Benzo (b) Fluoranthene	5,000	<MDL	<MDL					
Benzo (g,h,i) Perylene	XX	<MDL	<MDL					
Benzo (k) Fluoranthene	49,000	<MDL	<MDL					
Chrysene	160,000	<MDL	<MDL					
Dibenzo (a,h) Anthracene	800	<MDL	<MDL					
Fluoranthene	4,300,000	<MDL	<MDL					
Fluorene	560,000	<MDL	<MDL					
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL					
Naphthalene	1,800	<MDL	<MDL					
Phenanthrene	XX	<MDL	<MDL					
Pyrene	4,200,000	<MDL	<MDL					

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)
XX = Tier 1 soil remediation objective not listed in TACO tables.
NA = not analyzed
M = Matrix interferences identified

TACO Parameters

Sample #	foc	pH	Bulk Density	Particle Density	% Moisture	Porosity
Surface	2.90%	7.40	1.26	2.52	42.8%	0.50
Subsurface	0.87%	7.77	1.50	2.64	27.8%	0.43

TABLE 1.

SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	Landfill 1 (LF-1) 04/01/08	Landfill 2 (LF-2) 04/01/08	Landfill 3 (LF-3) 04/01/08
Benzene	30	<2.5	280	923
Toluene	12,000	5.6	<164	<311
Ethylbenzene	13,000	<2.5	201	2,150
Total Xylenes	5,600	<6.2	1,140	2,960
MTBE	320	NA	NA	NA
PNAs				
Acenapthene	570,000	<84.0	<89.9	<83.8
Acenapthylene	XX	<84.0	<89.9	<83.8
Anthracene	12,000,000	<251	<268	<250
Benzo (a) Anthracene	2,000	<251	<268	<250
Benzo (a) Pyrene	800	<84.0	<89.9	<83.8
Benzo (b) Fluoranthene	5,000	<417	<447	<416
Benzo (g,h,i) Perylene	XX	<251	<268	<250
Benzo (k) Fluoranthene	49,000	<251	<268	<250
Chrysene	160,000	<84.0	<89.9	<83.8
Dibenzo (a,h) Anthracene	800	<84.0	<89.9	<83.8
Fluoranthene	4,300,000	<84.0	<89.9	<83.8
Fluorene	560,000	<84.0	<89.9	<83.8
Ideno (1,2,3-cd) Pyrene	8,000	<84.0	<89.9	<83.8
Naphthalene	1,800	<84.0	<89.9	514
Phenanthrene	XX	<84.0	<89.9	<83.8
Pyrene	4,200,000	<84.0	<89.9	<83.8

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

Table 2

Site Investigation Groundwater Analytical Data

Table 2: Groundwater Analytical Data
Freedom Oil Company
Champaign, Illinois

Sample #	Date	DTW	GWE	Benzene	Toluene	E-benzene	Xylenes	Total BTEX	MTBE	Napthalene
MW-1	Elevation Top of Casing =			98.48						
1	11/12/2008	6.17	92.31	**16,200**	**10,700**	**8,240**	29,400	**64,540**	**<200**	**1,300**
2	3/31/2011	5.95	92.53	**1,390**	6.45	575	27.1	1,423.55	60.7	86.3
MW-2	Elevation Top of Casing =			100.00						
1	11/12/2008	6.74	93.26	**5,150**	86.5	**4,940**	**10,200**	**20,376.5**	**101**	**1,170**
2	3/31/2011	6.68	93.32	11.1	<5.00	<5.00	<15.0	<36.1	22.9	<MDL
MW-3	Elevation Top of Casing =			96.62						
1	11/12/2008	5.35	91.27	2.4	<2.0	<2.0	<5.0	<11.4	<2.0	<MDL
2	3/31/2011	5.40	91.22	**135**	<5.00	103	67.8	<310.8	<5.00	8.41
MW-4	Elevation Top of Casing =			98.22						
1	11/12/2008	6.60	91.62	<2.0	<2.0	<2.0	<5.0	<11.0	<2.0	<MDL
2	3/31/2011	6.63	91.59	<5.00	<5.00	<5.00	<15.0	<30.00	13.7	<MDL
MW-5	Elevation Top of Casing =			98.34						
1	11/12/2008	7.30	91.04	**3,620**	65.6	344	544	4,573.6	21.7	58.1
2	3/31/2011	7.27	91.07	<5.00	<5.00	<5.00	<15.0	<30.00	5.63	<MDL
MW-6	Elevation Top of Casing =			98.13						
1	3/31/2011	5.27	92.86	<5.00	<5.00	<5.00	<15.0	<30.00	<5.00	<MDL
MW-7	Elevation Top of Casing =			97.62						
1	3/31/2011	5.09	92.53	<5.00	<5.00	<5.00	<15.0	<30.00	<5.00	<MDL
MW-8	Elevation Top of Casing =			97.11						
1	3/31/2011	5.08	92.03	<5.00	<5.00	<5.00	<15.0	<30.00	<5.00	<MDL
MW-9	Elevation Top of Casing =			97.38						
1	3/31/2011	6.51	90.87	124	7.52	195	574	<900.52	<5.00	49.1

Notes:

1. All results in parts per billion (ppb).
2. IEPA Generic Cleanup Objectives:

Benzene	Toluene	E-benzene	Xylenes	Total BTEX	MTBE	Napthalene
5.0 ppb	1000 ppb	700 ppb	10,000 ppb	11,705 ppb	70 ppb	140 ppb

3. -- = No data available
4. DTW = Depth to Water
5. GWE = Groundwater Elevation referenced to datum point
6. All PNAs below detection limits except napthalene concentrations as noted.
7. ND = No PNA constituents detected.

Figure 1

Area Map

Area Map

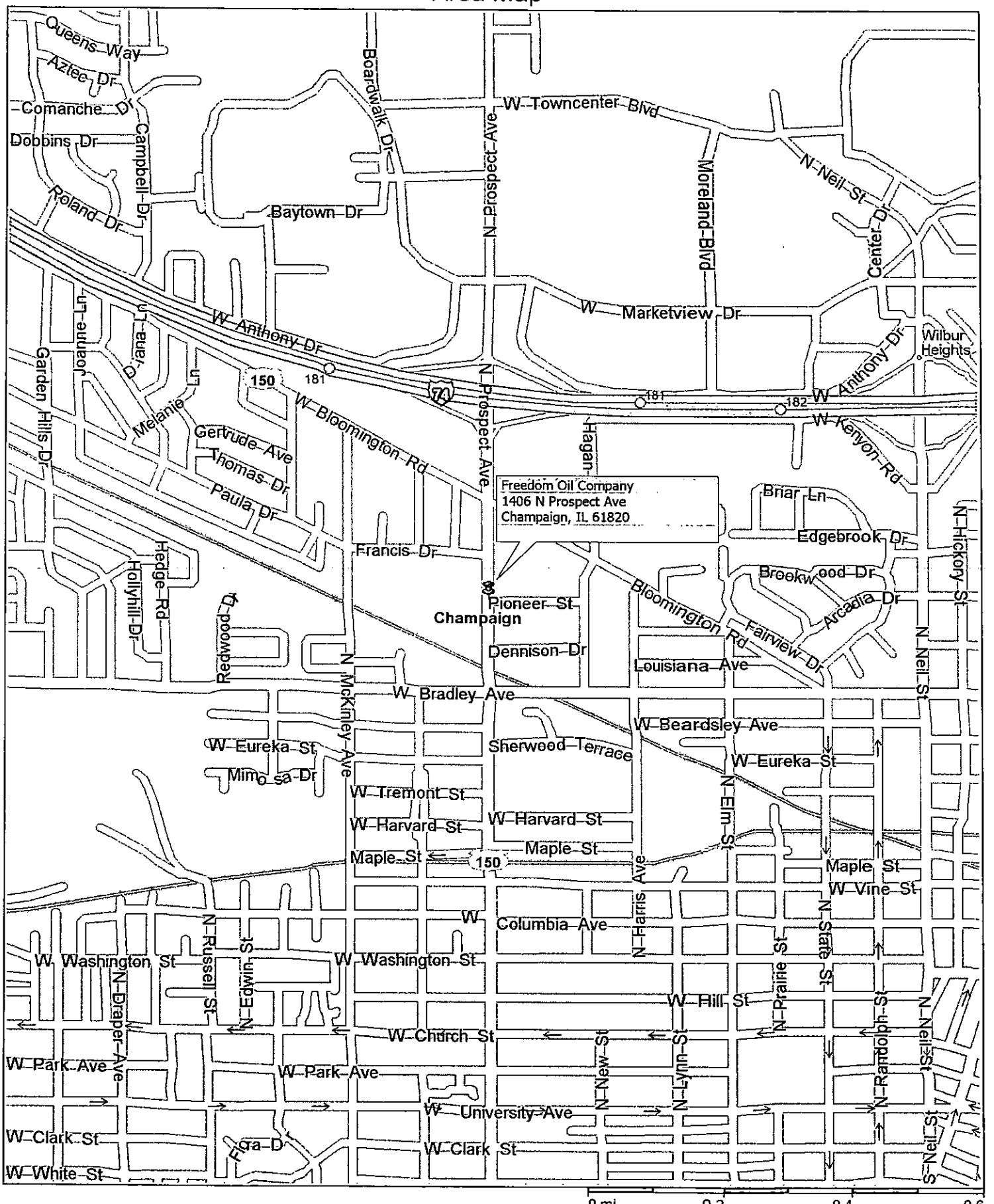


Figure 2

Site Map

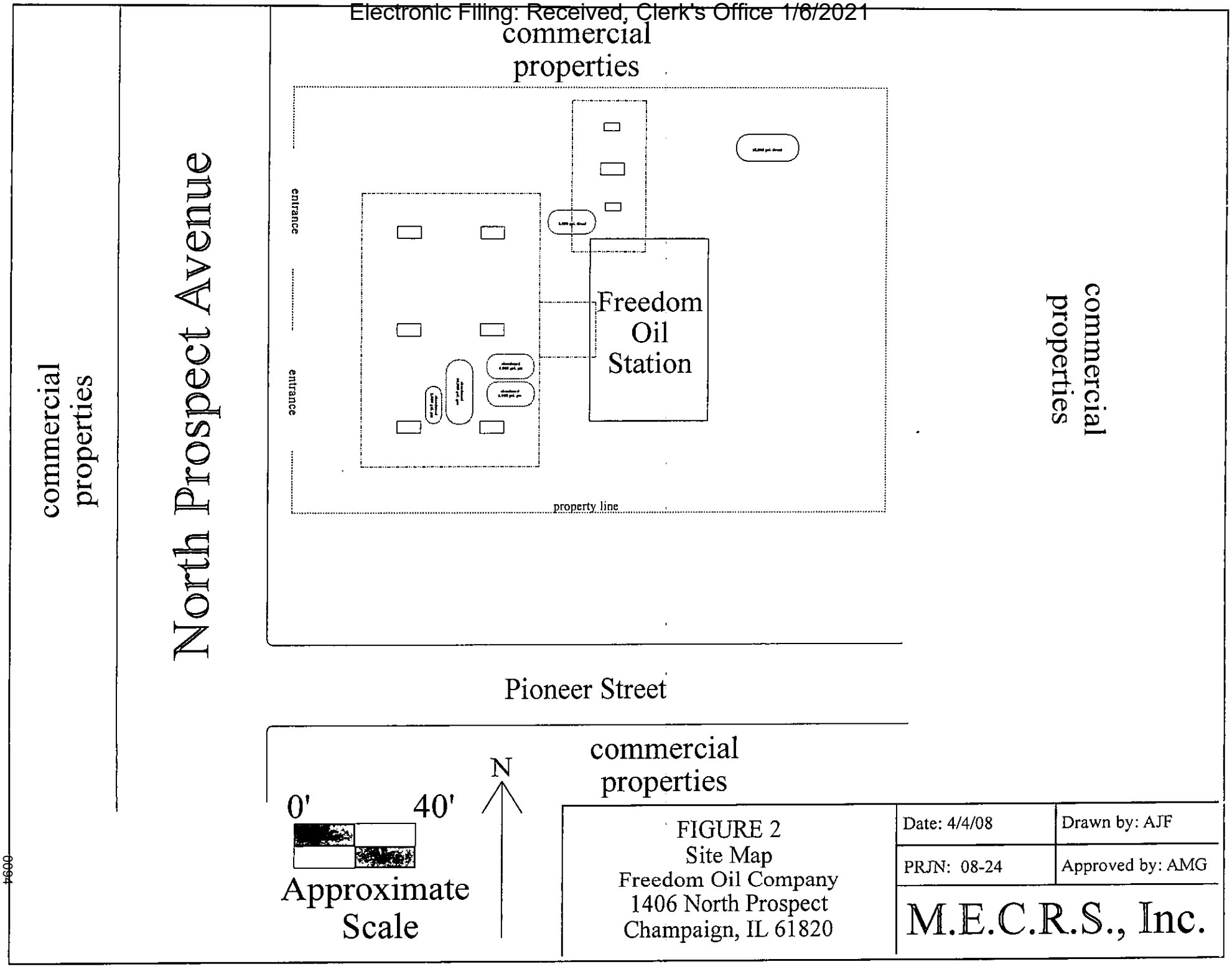


FIGURE 2
Site Map
Freedom Oil Company
1406 North Prospect
Champaign, IL 61820

Date: 4/4/08	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

0004

Figure 3

Soil Boring Location Map

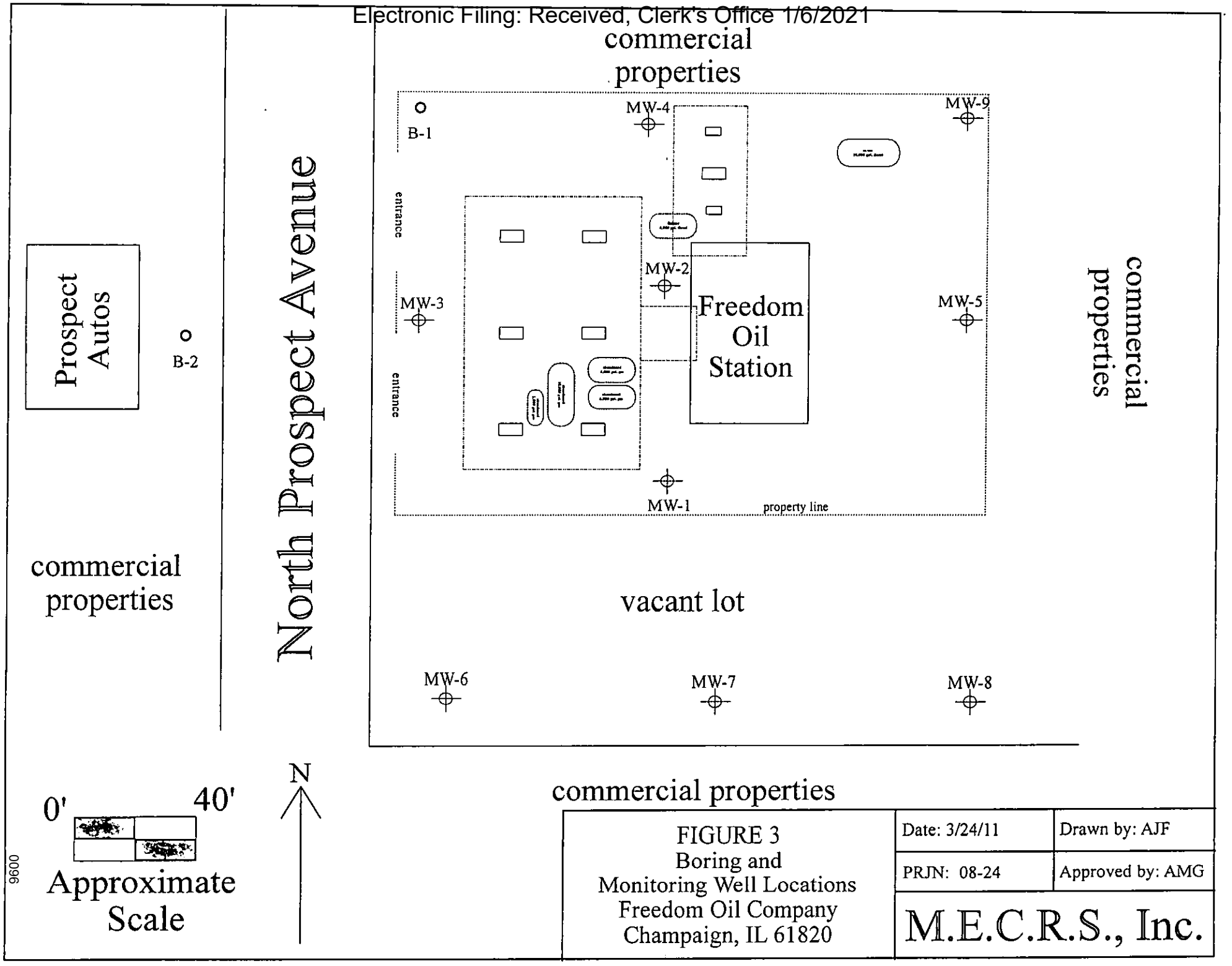


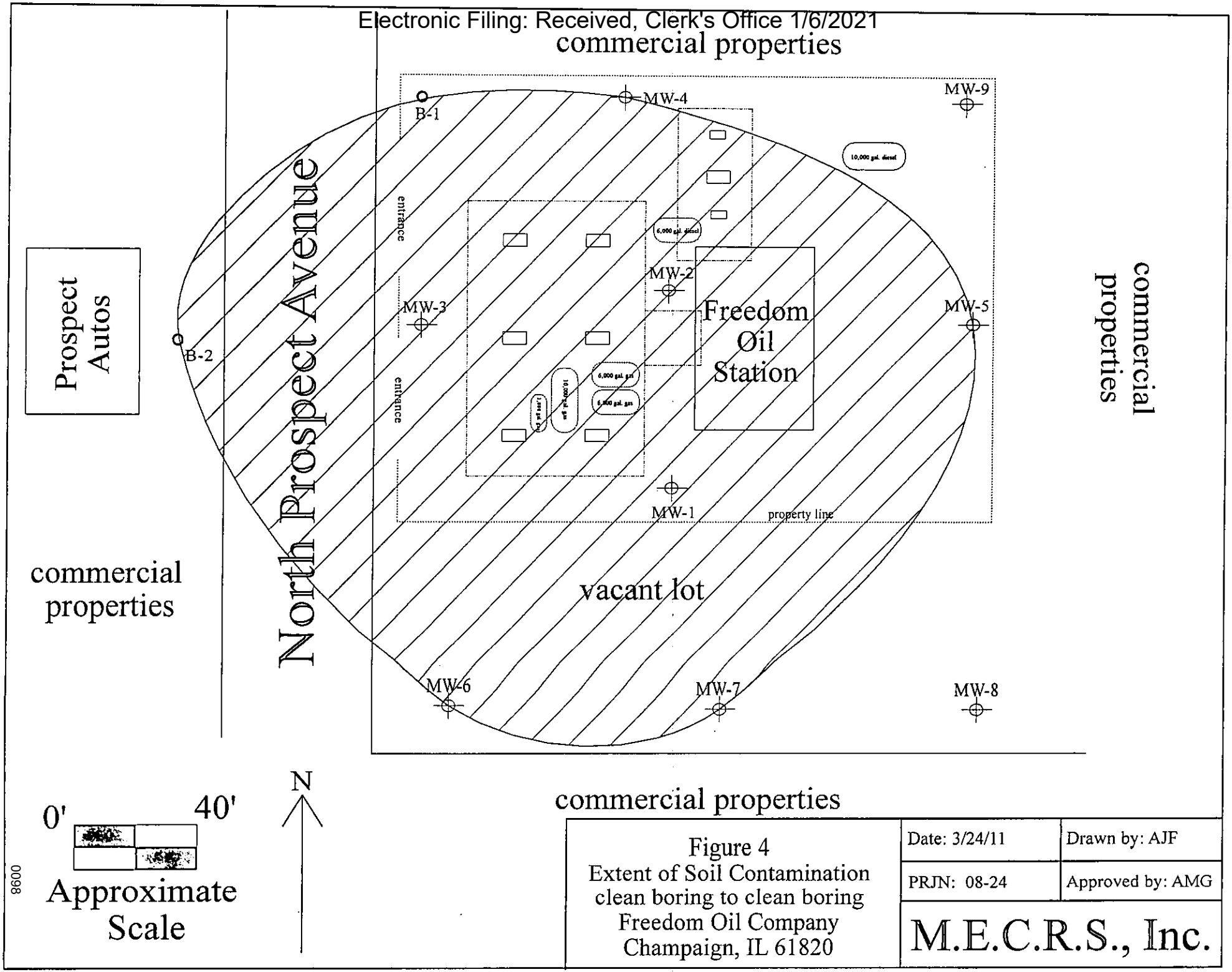
FIGURE 3
Boring and
Monitoring Well Locations
Freedom Oil Company
Champaign, IL 61820

Date: 3/24/11	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

Figure 4

Estimated Extent of Soil Contamination



0098

Figure 4
Extent of Soil Contamination
clean boring to clean boring
Freedom Oil Company
Champaign, IL 61820

Date: 3/24/11	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

Figure 5

Estimated Extent of Groundwater Contamination

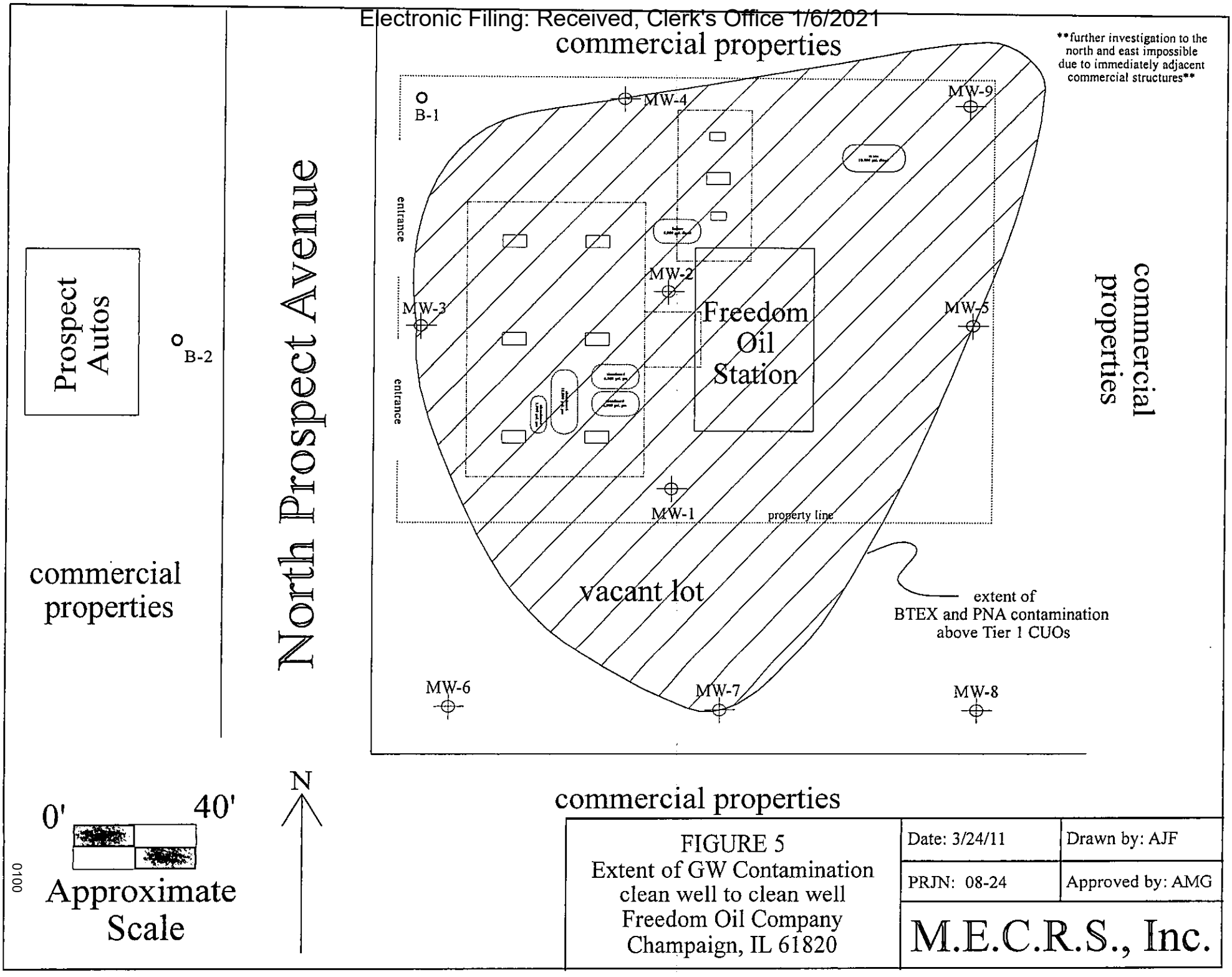


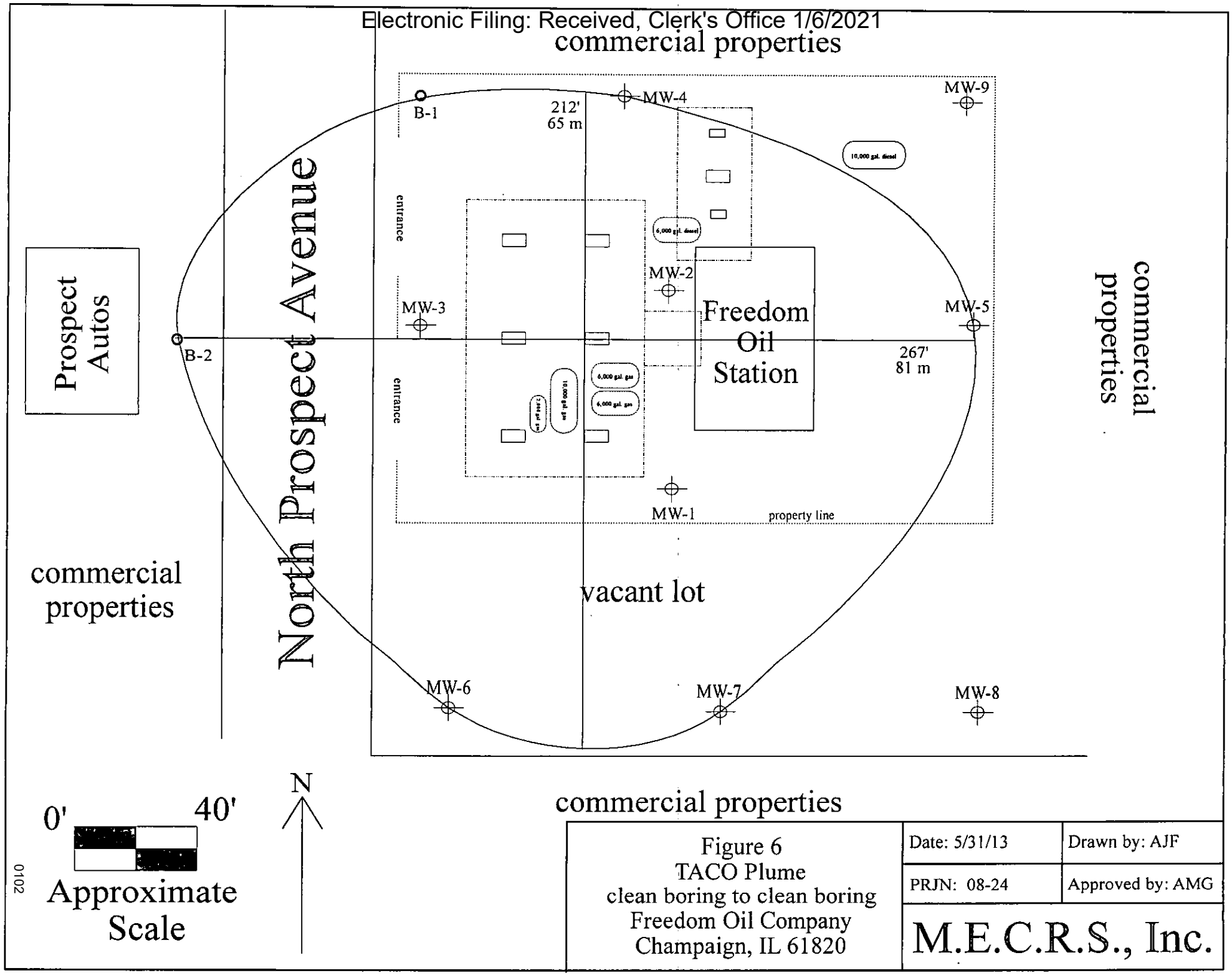
FIGURE 5
Extent of GW Contamination
clean well to clean well
Freedom Oil Company
Champaign, IL 61820

Date: 3/24/11	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

Figure 6

TACO Plume Measurements



0102

Figure 6
TACO Plume
clean boring to clean boring
Freedom Oil Company
Champaign, IL 61820

Date: 5/31/13	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

Figure 7

Tier 2 Plume Measurements

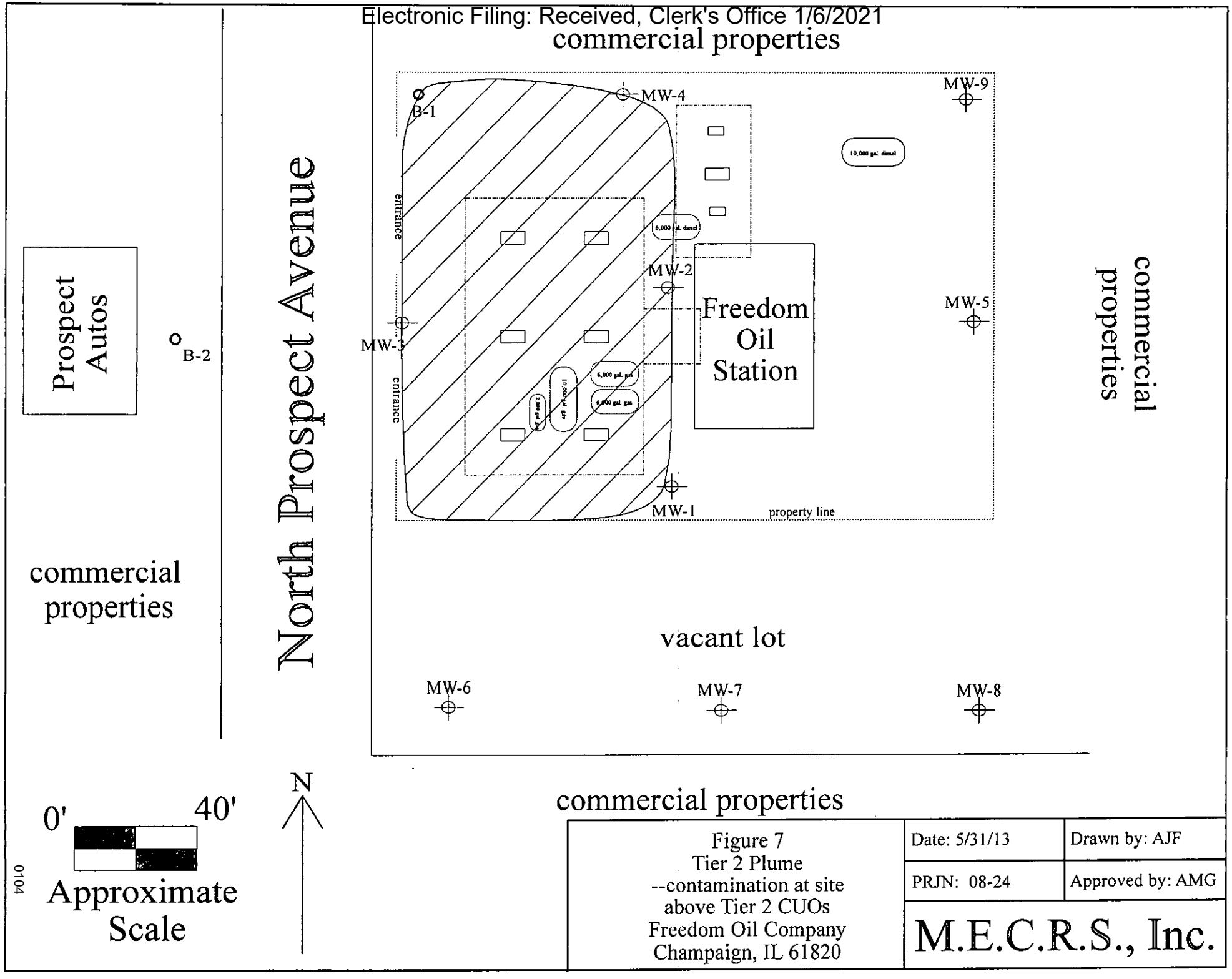


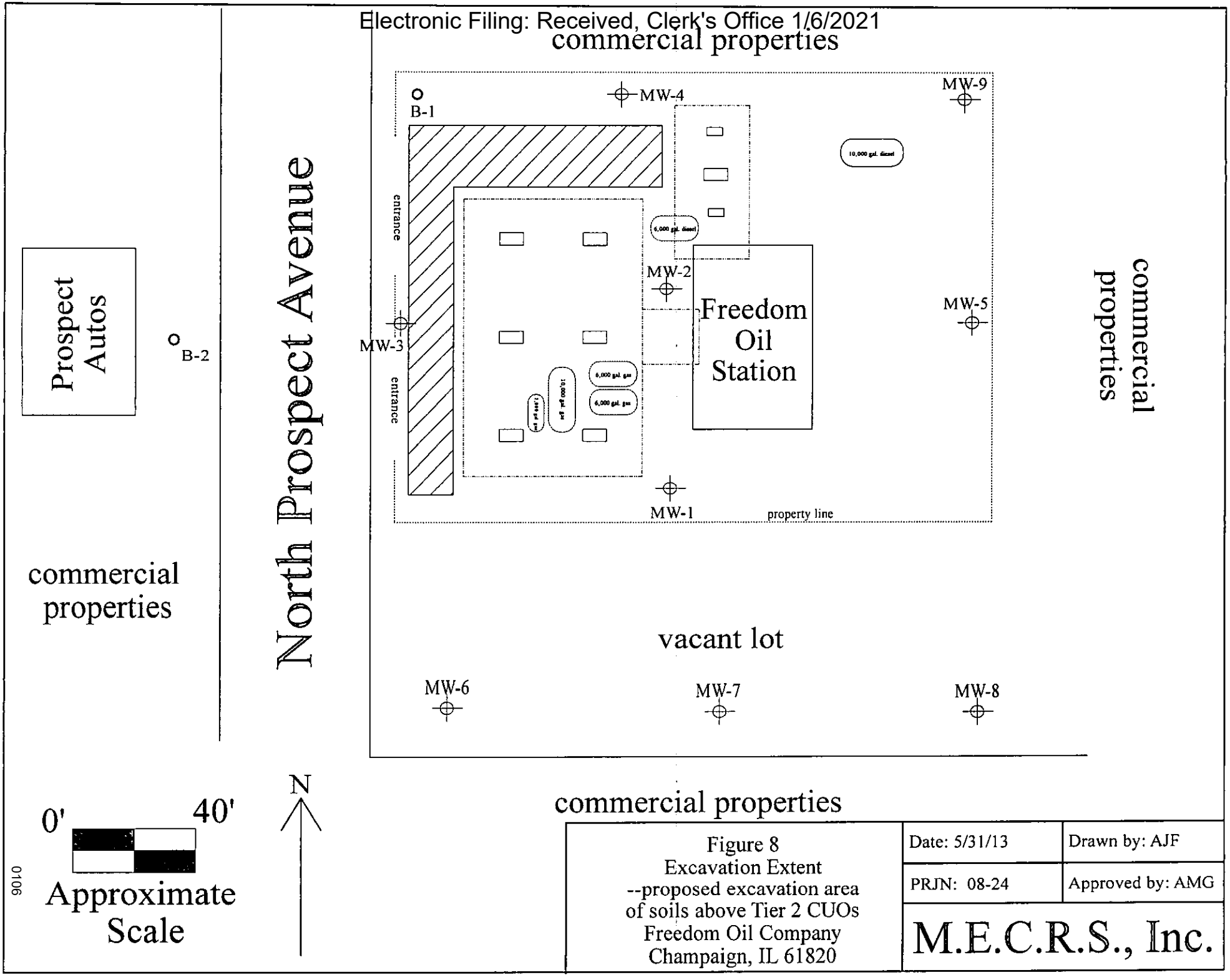
Figure 7
Tier 2 Plume
--contamination at site
above Tier 2 CUOs
Freedom Oil Company
Champaign, IL 61820

Date: 5/31/13	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

Figure 8

Proposed Excavation Extents



0106

Figure 8 Excavation Extent --proposed excavation area of soils above Tier 2 CUOs Freedom Oil Company Champaign, IL 61820	Date: 5/31/13	Drawn by: AJF
	PRJN: 08-24	Approved by: AMG
	M.E.C.R.S., Inc.	

Figure 9

Proposed Off-Site Boring Locations

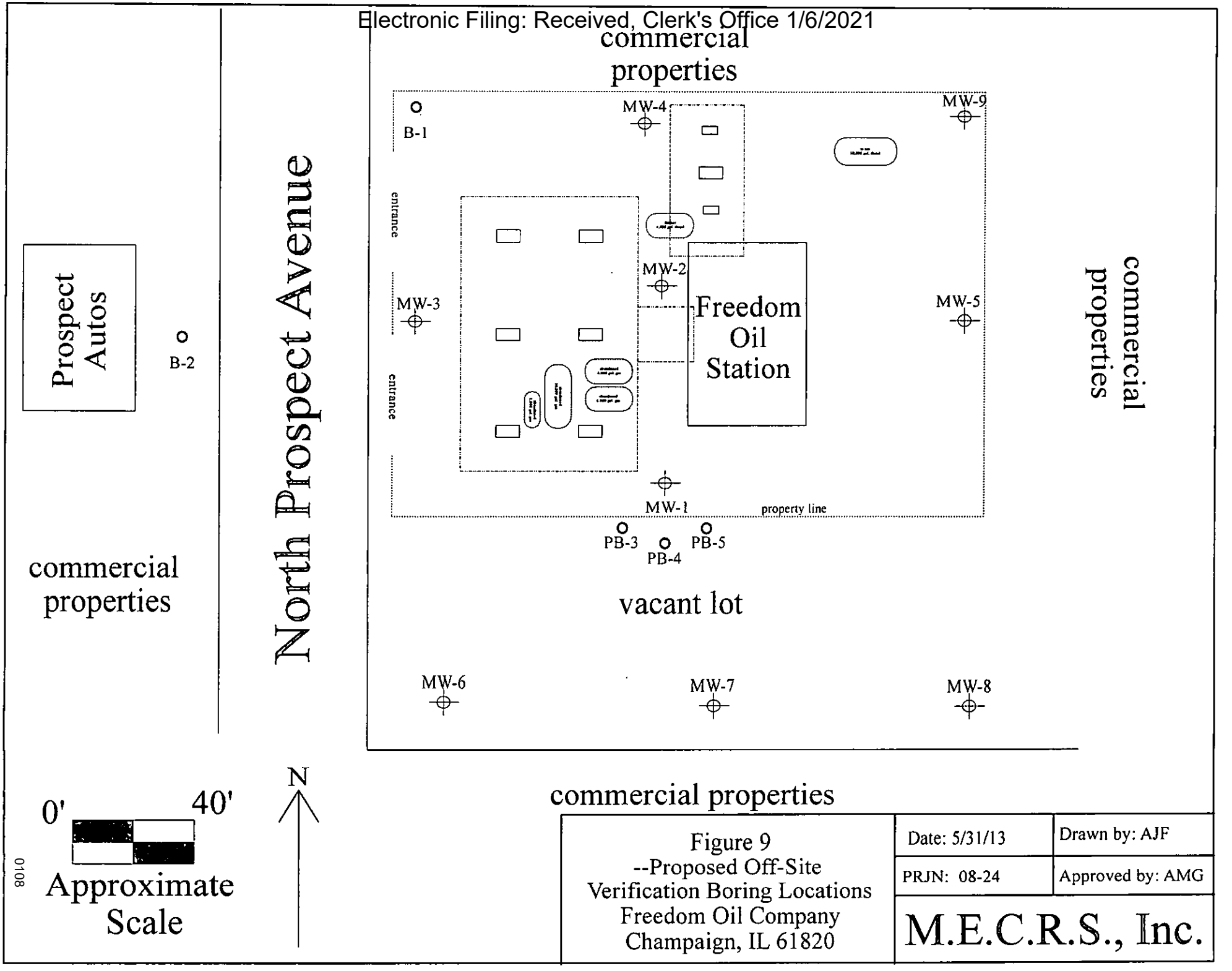


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Figure 9
--Proposed Off-Site
Verification Boring Locations
Freedom Oil Company
Champaign, IL 61820

Date: 5/31/13	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

Appendix A

Laboratory Data Reports

TELEPHONE
309-673-2131
TESTS • INVESTIGATIONS
ANALYSIS • DESIGN • EVALUATIONS
CONSULTATION • REPORTS • INSPECTIONS
ARBITRATION • EXPERT WITNESS TESTIMONY
• • • • • • • • • • •
SOILS • PORTLAND CEMENT CONCRETE
BITUMINOUS CONCRETE • STEEL
ASPHALT • AGGREGATES • EMULSIONS
POZZOLANIC MATERIALS • LIME

WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604-3193

TELEFAX
309-673-3050
GEOTECHNICAL ENGINEERING
CONSTRUCTION QUALITY CONTROL
SUBSURFACE EXPLORATIONS
ENVIRONMENTAL INVESTIGATIONS
• • • • • • • • • • •
MONITORING WELL INSTALLATIONS
BUILT-UP ROOF INVESTIGATIONS
WELDER CERTIFICATIONS
INSURANCE INVESTIGATIONS

CLIENT:

W&A FILE NO. -
DATE: 01-28-13

Mr. Andrew Fetterolf
Midwest Environmental Consulting
And Remediation Services, Inc.
P. O. Box 614
Tremont, Illinois 61568-0614

PROJECT:

Freedom Oil Site Investigation
Champaign, Illinois

LABORATORY TEST SUMMARY

SAMPLE NUMBER	:	Surface	Subsurface
VISUAL SOIL CLASSIFICATION	:	Black ORGANIC LEAN CLAY - OL	Light Brown And Gray-Brown Mottled Dark Brown LEAN CLAY - CL
MOIST BULK DENSITY - PCF	:	112.2	119.5
DRY BULK DENSITY - PCF	:	78.6	93.5
NATURAL MOISTURE CONTENT - %	:	42.8	27.8
SPECIFIC GRAVITY	:	2.52	2.64

Should you have any questions or comments whatsoever in regard to these test results, or if any additional information is desired, please do not hesitate to contact us at your convenience.

Respectfully submitted,

WHITNEY & ASSOCIATES

(By) James R. Krusemark, P. E.

JRK:rma

Appendix B

Sampling Protocol

SOIL SAMPLING PROTOCOL

To be used when sampling L.U.S.T. site excavations for IEPA closure.

1. Sampling Methodology

   A. All sampling equipment to be used will be cleaned and decontaminated using deionized water prior to and between samples.

   B. Soil samples will be taken from excavation extents using a stainless steel trowel. The trowel will be inserted into the soil several inches so as to take a sample of undisturbed material. The sample will be immediately placed into a new, airtight, glass jar with a teflon lined lid.

   C. The sample will be allowed to sit undisturbed for a period of time sufficient for vapor equilibrium to be reached. A headspace analysis of the sample will then be conducted using a portable photoionization detector.

   D. Sampled extents showing contamination levels above 10 ppm on the PID will be continued. Sampled extents showing below 10 ppm.on the PID will be resampled for laboratory analysis.

2. Sample Storage and Transport

   A. Soil samples will be collected in new, airtight, glass jars* with teflon lined lids. Samples for analysis will be immediately cooled using a thermally insulated cooler and ice. The samples will be transported, on ice, as soon as possible, to the laboratory or to the engineering office cooler to await transport to the laboratory.

   B. No sample will be allowed to remain in the possession of the engineer or laboratory for more than two weeks prior to analysis.

   C. A chain of custody record will be kept for all samples taken for laboratory analysis.

3. Samples will be taken from the excavation sidewalls and floor at the following intervals.

   A. A minimum of one sample per twenty feet for sidewall extents. When lengths of sidewall exceed twenty feet, samples will be taken at equally spaced intervals, not to exceed twenty feet.

   B. Samples will be taken at a height relating to the projection of the lower one third of the former under ground storage tanks onto the sidewall extents. Samples will be taken at a distance relating to one-third the total excavation height from the floor if tank elevations are unknown.

C. A minimum of one sample per 400 square feet of excavation floor. Samples at minimum will be taken from the locations representing the bottoms of the former underground storage tanks.

D. Composited samples of excavated materials may also be taken for background reference and landfill verification.

*Encore sampling system will be substituted for glass jars when required.

SOIL SAMPLING PROTOCOL
For Subsurface Investigations

1. Sampling Methodology - Split Spoon Sampling

   A. All sampling equipment to be used will be cleaned and decontaminated using deionized water prior to and between samples.

   B. Verification will be made that all boring equipment to include augers, split spoon samplers and associated equipment has been properly cleaned and decontaminated prior to initiating investigation.

   C. All boring and associated samplers will be decontaminated in accordance with the following schedule.

      1.) Augers and center plugs will be decontaminated between borings using a high pressure washer or steam cleaner.

      2.) Split Spoon Samplers will be decontaminated between samples using a warm water Alconox wash and triple rinsing.

   D. Samples representative of the interval retrieved will be removed and placed into new, glass jars with teflon lined lids*. Proper care will be taken to minimize volatilization of possible contaminants from the sample during handling.

   E. The sample will be allowed to sit undisturbed for a period of time sufficient for vapor equilibrium to be reached. A headspace analysis of the sample will then be conducted using a portable photoionizer detector.

   F. A log of all borings will be recorded during sampling. The logs will include data regarding soil types and depths, anomalies, odor, HNU readings, and moisture contents.

2. Sample Storage, Handling and Transport

   A. Samples for analysis will be immediately cooled using a thermally insulated cooler and ice. The samples will be transported, on ice, as soon as possible, to the laboratory or to the engineering office cooler to await transport to the laboratory.

   B. No sample will be allowed to remain in the possession of the geologist or laboratory for more than two weeks prior to analysis.

   C. A chain of custody record will be kept for all samples taken for laboratory analysis.

*Encore sampling system will be substituted for glass jars when required.

SOIL SAMPLING PROTOCOL

1. Sampling Methodology - Shelby Tube Samples

   A. All sampling equipment to be used will be cleaned and decontaminated using deionized water prior to and between samples.

   B. Verification will be made that all boring equipment to include augers, shelby tube samplers and associated equipment has been properly cleaned and decontaminatdd prior to initiating investigation.

   C. All boring and associated samplers will be decontaminated in accordance with the following schedule.

      1.) Augers and center plugs will be decontaminated between borings using a high pressure washer or steam cleaner.

      2.) Shelby tube samplers will be inspected prior to use. No samplers will be used showing indications of damage, corrosion or contamination. Samplers will not be reused or washed in the field.

   D. Shelby tube samplers will be carefully removed to minimize sample disturbance and volatilization or contamination.

   E. Plastic end caps will immediately be placed on the shelby tubes as they are removed.

2. Sample Storage, Handling, & Transport

   A. Shelby tube samples will be placed in a thermally insulated cooler with ice or cooler packs (Blue Ice).

   B. No sample will be allowed to remain in the possession of the engineer or laboratory for more than two weeks prior to analysis.

   C. A chain of custody record will be kept for all samples taken for laboratory analysis.

   D. No samples will be removed from the Shelby tubes except by the laboratory performing analysis.

GROUNDWATER SAMPLING PROTOCOL

To be used when sampling groundwater monitoring wells for IEPA approved investigations.

1. Sampling Methodology - Bailer Method

   A. Verification will be made that all sampling equipment to include bailers, buckets, chords, water level meters, have been properly decontaminated prior to sampling initiation.

   B. All equipment will be decontaminated in accordance with the following protocol:

      1.) Bailers will be decontaminated between samples using Alconox wash, a 30% methanol/distilled water rinse, and a final triple rinse with distilled water.

      2.) Water level probes and associated equipment will be decontaminated between readings using an Alconox wash and distilled water rinse.

      3.) A new section of line will be used for bailing and sampling each individual well.

   C. A record of the following will be made at the time of well sampling:

      1.) Depth to water from top of well casing.
      2.) Total well depth from top of well casing.
      3.) Total vertical feet of water in well.
      4.) Number of well volumes purged.
      5.) Number of gallons purged.
      6.) Sampling methods.
      7.) Sample appearance.

   D. Wells will be purged and sampled using the following method:

      The total vertical feet of water in the 2" ID monitor well will be multiplied by 0.163 gal./ft. in order to determine the total volume of water in the well. A total of three well volumes will be purged from the well. Groundwater samples will then be withdrawn via a stainless steel bailer and collected in 40 milliliter, properly labeled vials. The samples will be immediately placed on ice for temporary storage until the samples can be transported to an IEPA certified laboratory.

SOIL SAMPLING PROTOCOL

TO BE USED WHEN SAMPLING L.U.S.T. SITE EXCAVATIONS

1. Sampling Methodology & Decontamination Procedures

   A. All sampling equipment to be used will be decontaminated using an alconox wash and distilled water rinse prior to and between samples.

   B. Soil samples will be collected from excavation extents using a stainless steel trowel. The trowel will be inserted into the soil several inches so as to collect an undisturbed sample. The sample will be immediately placed into a new, airtight, glass jar with a teflon lined lid*.

Representative grab samples will be collected along excavation sidewalls at a minimum of one sample per twenty feet of sidewall. When sidewall lengths exceed twenty feet, additional sidewall representative samples will be collected. Sidewall samples will be collected from an area parallel to the lower one-third of the tank.

Representative sampling of the excavation floor will require a minimum of two grab samples to be collected in areas representing the tank invert ends. If excavation floor extents exceed 400 square feet, additional representative samples will be collected at a minimum of one sample per additional 400 square feet.

If a release has occurred along product distribution lines, representative grab samples will be collected from below areas where distribution lines were previously located. These samples will be collected at twenty foot intervals.

2. Sample Storage and Transport

   A. Samples will be immediately placed on ice in an insulated cooler and chilled to 4 Celsius. Samples will be transported on ice to an IEPA certified laboratory as soon as possible.

   B. A chain of custody record will be kept for all laboratory analyzed samples.

*Encore sampling system will be substituted for glass jars when required.

SOIL SAMPLING PROTOCOL

HAND AUGER

To be used when sampling hand augered soil borings for subsurface investigations.

1. Sampling Methodology - Hand Auger Sampling

   A. All sampling equipment to be used will be cleaned and decontaminated using deionized water prior to and between samples.

   B. Verification will be made that all boring equipment has been properly cleaned and decontaminated prior to initiating investigation.

   C. All boring equipment will be decontaminated as follows:

      Auger sample cores, attachable stems, and any additional sampling aids (e.g.. knives, trowels, etc....) will be decontaminated between sampling intervals using an Alconox wash , methanol rinse, and triple distilled water rinsing.

   D. Samples representative of the interval retrieved will be removed and placed into new, glass jars with teflon lined lids. Proper care will be taken to minimize volatilization of possible contaminants from the sample during handling.

   E. The sample will be allowed to sit undisturbed for a period of time sufficient for vapor equilibrium to be reached. A headspace analysis of the sample will then be conducted using a portable photoionizer detector.

   F. A log of all borings will be recorded during sampling. The logs will include data regarding soil types and depths, anomalies, odor, HNU readings, blow counts and moisture contents.

2. Sample Storage, Handling and Transport

   A. Samples for analysis will be immediately cooled using a thermally insulated cooler and ice. The samples will be transported, on ice, as soon as possible, to the laboratory or to the engineering office cooler to await transport to the laboratory.

   B. No sample will be allowed to remain in the possession of the engineer or laboratory for more than two weeks prior to analysis.

   C. A chain of custody record will be kept for all samples taken for laboratory analysis.

Appendix C

TACO Documents

Initial Cleanup Objectives - SSL Procedure - Ground Water Protection

This report presents the initial cleanup objectives (CUO) for the constituents at the site as determined by the Soil Screening (SSL) procedure to protect ground waters. If the Mixture Rule is applicable these initial Cleanup Objectives may be modified according to the procedures set forth in 35 IAC 740.805. All cleanup objectives are in mg/kg.

	Class I		Class II	
ChemName	CUO	Comments	CUO	Comments
Benzene	0.0732		0.3662	
Ethylbenzene	47.4113		67.7305	
Naphthalene	8.8009		13.7294	
Xylenes (total)	462.024	Capped by Csat	462.024	Capped by Csat
Total CUO Concentration	**518.31**		**543.85**	

Initial Cleanup Objectives - SSL Procedure - Industrial/Commercial Exposure Scenario

This report presents the initial cleanup objectives (CUO) for the constituents at the site as determined by the Soil Screening (SSL) procedure. If the Mixture Rule is applicable, these initial Cleanup Objectives may be modified according to the procedures set forth in 35 IAC 740.805. All cleanup objectives are in mg/kg.

Constituent	Ingestion CUO	Ingestion Comments	Inhalation CUO	Inhalation Comments
Benzene	197.35	Based on carcinogenicity	1.48	Inhalation of Volatiles: carcinogenic effects
Ethylbenzene	204.400.00	Based on non-carcinogenic effects	1.814.35	Inhalation of Volatiles: non-carcinogenic effects: Capped by Csat
Naphthalene	81.760.00	Based on non-carcinogenic effects	243.87	Inhalation of Volatiles: non-carcinogenic effects
Xylenes (total)	1.000.000	Based on non-carcinogenic effects: Capped by 10E6 mg/kg constraint	1.437.50	Inhalation of Volatiles: non-carcinogenic effects: Capped by Csat
Total CUO Concentrations	**1,286,357.35**		**3,497.20**	

Initial Cleanup Objectives - SSL Procedure - Construction Worker Exposure Scenario

This report presents the initial cleanup objectives (CUO) for the constituents at the site as determined by the Soil Screening (SSL) procedure. If the Mixture Rule is applicable these initial Cleanup Objectives may be modified according to the procedures set forth in 35 IAC 740.805. All cleanup objectives are in mg/kg.

Constituent	Ingestion		Inhalation	
	CUO	Comments	CUO	Comments
Benzene	4.282.81	Based on carcinogenicity	2.08	Inhalation of Volatiles: carcinogenic effects
Ethylbenzene	20.404.51	Based on non-carcinogenic effects	51.25	Inhalation of Volatiles: non-carcinogenic effects
Naphthalene	8.161.81	Based on non-carcinogenic effects	1.58	Inhalation of Volatiles: non-carcinogenic effects
Xylenes (total)	408.090.29	Based on non-carcinogenic effects	20.35	Inhalation of Volatiles: non-carcinogenic effects
Total CUO Concentrations	**440,939.42**		**75.26**	

Datasheet SSL-I: Ingestion of Carcinogenic Contaminants

Datasheet SSL-I is to be used to propose soil cleanup objectives for the ingestion of carcinogens exposure route calculated by equations in Appendix C, Table A of TACO: Equation S2 (residential scenario) and Equation S3 (industrial/commercial and construction worker scenarios).

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted; one for the industrial/commercial scenario and one for the construction worker scenario.

Land Use Scenario: **Industrial/Commercial**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		BW (kg)	70	
ATc (yr)	70		ED (yr)	25	
EF (d/yr)	250		IRsoil (mg/d)	50	
IFsoil-adj (mg-yr/kg-d)	Not Applicable		SFo (1/mg/kg-d)	See Below	

Toxicological Properties

Chemical Name	SFo 1/(mg/kg-d)	Soil Cleanup Objective (mg/kg)
Benzene	0.0290	197.352
Ethylbenzene	0.0000	NC
Naphthalene	0.0000	NC
Xylenes (total)	0.0000	NC

Datasheet SSL-II: Ingestion of Noncarcinogenic Contaminants

Datasheet SSL-I is to be used to propose soil cleanup objectives for the ingestion of noncarcinogens exposure route calculated by equations in Appendix C, Table A of TACO: Equation S1 (residential, industrial/commercial and construction worker scenarios).

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted, one for the industrial/commercial scenario and one for the construction worker scenario.

Land Use Scenario: **Industrial/Commercial**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
THQ (Unitless)		1	ED (yr)		25
BW (kg)		70	IRsoil (mg/d)		50
AT (yr)		25	RfDo (1/mg/kg-d)		See Below
EF (d/yr)		250			

Toxicological Properties

Chemical Name	RfDo (mg/kg-d)	Soil Cleanup Objective (mg/kg)
Benzene	0.0000	NC
Ethylbenzene	0.1000	204,400.003
Naphthalene	0.0400	81,759.998
Xylenes (total)	2.0000	4,088,000.000

Datasheet SSL-III(a): Inhalation of Carcinogenic Volatile Contaminants for Commercial/Industrial Scenario

Datasheet SSL-III(a) is to be used to propose soil cleanup objectives for the inhalation of volatile carcinogens exposure route calculated by the equation in Appendix C, Table A of TACO: Equation S6 (residential and commercial/industrial scenarios). Since the values(s) listed in Datasheet SSL-VI are used in this evaluation, this datasheet must also be submitted.

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted. Therefore, Datasheets SSL-III(a) and SSL-III(b) must be submitted.

Land Use Scenario: **Commercial/Industrial**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		EF (d/yr)	250	
ATc (yr)	70		ED (yr)	25	
URF 1/(µg/m³)*	See Below		VF (m³/kg)**	See Below	

* Toxicological Properties: See Datasheet D

** VF values reported on Datasheet SSL-VI(a)

Chemical Name	URF 1/(µg/m³)	VF (m³/kg)	Soil Cleanup Objective (mg/kg)
Benzene	0.0000078	2,824.73	1.480
Ethylbenzene		5,425.84	NC
Naphthalene		55,678.68	NC
Xylenes (total)		5,387.49	NC

Datasheet SSL-IV(a): Inhalation of Noncarcinogenic Volatile Contaminants for Residential and Commercial/Industrial Scenarios

Datasheet SSL-IV(a) is to be used to propose soil cleanup objectives for the inhalation of volatile carcinogens exposure route calculated by the equation in Appendix C, Table A of TACO: Equation S4 (residential and commercial/industrial scenarios). Since the value(s) listed in Datasheet SSL-VI are used in this evaluation, this datasheet must also be submitted.

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construciton worker scenario must be calculated. Therefore, two datasheets SSL-IV(a) and SSL-IV(b) must be submitted. For those chemicals liquid at ambient temperature (30°C), Csat shall be the soil cleanup level if less than the migration to groundwater objective.

Land Use Scenario: **Industrial/Commercial**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
THQ (Unitless)	1		ED (yr)	25	
AT (yr)	25		RfC (mg/m³)*	See Below	
EF (d/yr)	250		VF (m³/kg)**	See Below	

* Toxicological Properties: See Datasheet D

** VF values reported on Datasheet SSL-VI(a)

Chemical Name	RfC (mg/m³)	RfDiC (mg/kg-d)	VF (m³/kg)	Soil Cleanup Objectives (mg/kg)
Benzene			2,824.73	3,308.342
Ethylbenzene	1.000000	0.290000	5,425.84	1,814.345
Naphthalene	0.003000	0.000860	55,678.68	243.873
Xylenes (total)		0.030000	5,387.49	1,437.500

Datasheet SSL-II: Ingestion of Noncarcinogenic Contaminants

Datasheet SSL-I is to be used to propose soil cleanup objectives for the ingestion of noncarcinogens exposure route calculated by equations in Appendix C, Table A of TACO: Equation S1 (residential, industrial/commercial and construction worker scenarios).

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted, one for the industrial/commercial scenario and one for the construction worker scenario.

Land Use Scenario: **Construction Worker**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
THQ (Unitless)		1	ED (yr)		1
BW (kg)		70	IRsoil (mg/d)		480
AT (yr)		0.115	RfDo (1/mg/kg-d)		See Below
EF (d/yr)		30			

Toxicological Properties

Chemical Name	RfDo (mg/kg-d)	Soil Cleanup Objective (mg/kg)
Benzene	0.0000	NC
Ethylbenzene	0.1000	20,404.515
Naphthalene	0.0400	8,161.806
Xylenes (total)	2.0000	408,090.285

Datasheet SSL-I: Ingestion of Carcinogenic Contaminants

Datasheet SSL-I is to be used to propose soil cleanup objectives for the ingestion of carcinogens exposure route calculated by equations in Appendix C, Table A of TACO: Equation S2 (residential scenario) and Equation S3 (industrial/commercial and construction worker scenarios).

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted; one for the industrial/commercial scenario and one for the construction worker scenario.

Land Use Scenario: **Construction Worker**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		BW (kg)	70	
ATc (yr)	70		ED (yr)	1	
EF (d/yr)	30		IRsoil (mg/d)	480	
IFsoil-adj (mg-yr/kg-d)	Not Applicable		SFo (1/mg/kg-d)	See Below	

Toxicological Properties

Chemical Name	SFo 1/(mg/kg-d)	Soil Cleanup Objective (mg/kg)
Benzene	0.0290	4,282.807
Ethylbenzene	0.0000	NC
Naphthalene	0.0000	NC
Xylenes (total)	0.0000	NC

Datasheet SSL-III(b): Inhalation of Carcinogenic Volatile Contaminants for Construction Worker Scenario

Datasheet SSL-III(a) is to be used to propose soil cleanup objectives for the inhalation of volatile carcinogens exposure route calculated by the equation in Appendix C, Table A of TACO: Equation S6 (residential and commercial/industrial scenarios). Since the values(s) listed in Datasheet SSL-VI are used in this evaluation, this datasheet must also be submitted.

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construction worker scenario must be calculated. Therefore, two datasheets must be submitted. Therefore, Datasheets SSL-III(a) and SSL-III(b) must be submitted.

Land Use Scenario: **Construction Worker**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
TR (Unitless)	0.000001		EF (d/yr)	30	
ATc (yr)	70		ED (yr)	1	
URF 1/(µg/m³)*	See Below		VF (m³/kg)**	See Below	

* Toxicological Properties: See Datasheet D

** VF values reported on Datasheet SSL-VI(a)

Chemical Name	URF 1/(µg/m³)	VF (m³/kg)	Soil Cleanup Objective (mg/kg)
Benzene	0.0000078	19.07	2.082
Ethylbenzene		36.63	NC
Naphthalene		375.86	NC
Xylenes (total)		36.37	NC

Datasheet SSL-IV(b): Inhalation of Noncarcinogenic Volatile Contaminants for Residential and Commercial/Industrial Scenarios

Datasheet SSL-IV(a) is to be used to propose soil cleanup objectives for the inhalation of volatile carcinogens exposure route calculated by the equation in Appendix C, Table A of TACO: Equation S4 (residential and commercial/industrial scenarios). Since the value(s) listed in Datasheet SSL-VI are used in this evaluation, this datasheet must also be submitted.

For industrial/commercial properties, soil cleanup objectives for both the industrial/commercial scenario and the construciton worker scenario must be calculated. Therefore, two datasheets SSL-IV(a) and SSL-IV(b) must be submitted. For those chemicals liquid at ambient temperature (30°C), Csat shall be the soil cleanup level if less than the migration to groundwater objective.

Land Use Scenario: **Construction Worker**

Engineered Barrier	YES	NO	Institutional Control	YES	NO
THQ (Unitless)	1		ED (yr)		1
AT (yr)	0.115		RfC (mg/m³)*	See Below	
EF (d/yr)	30		VF (m³/kg)**	See Below	

* Toxicological Properties: See Datasheet D

** VF values reported on Datasheet SSL-VI(a)

Chemical Name	RfC_sc (mg/m³)	RfDiSC (mg/kg-d)	VF (m³/kg)	Soil Cleanup Objectives (mg/kg)
Benzene			19.07	3,308.342
Ethylbenzene	1.00000	0.29000	36.63	51.248
Naphthalene	0.00300	0.00086	375.86	1.578
Xylenes (total)	0.40000	0.03000	36.37	20.354

Datasheet SSL - V(b). Migration to Groundwater - Class 2

Datasheet SSL-V is to be used to propose soil cleanup objectives for the migration to groundwater exposure route of carcinogens calculated by the equation in Appendix C, Table A or TACO: Equation S17 (residential, industrial/commercial and construction worker scenarios). Equations S20, S21, and S22 may also be necessary under some circumstances. Since values listed in Datasheet SSL-VI are used in this evaluation, this datasheet must also be submitted.

Area(s)/Locations(s) at the site, if applicable: _____

Land Use Scenario: **ALL**

Engineered Barriers Institutional Control	YES YES	NO NO
Cw (mg/L)	See below	
Kd (L/kg)***	See below	
H' (unitless)****	See below	
Koc (L/kg)****	See below	
DF (unitless)	20.0	
GWobj (mg/L)	See below	
TR (unitless)	0.000001	

Site-Specific DF* (unitless)	
K (m/yr)	
i (m/m)	
d (m)	
I (m/yr)	
L (m)	
da (m)	
ATc (yr)	

Physical Soil Parameters**	
θw (unitless)	0.30
θa (unitless)	0.13
ρs (g/cm³)	2.64
ρb (g/cm³)	1.50
foc (unitless)	0.009
SFo [1/(mg/kg-d)]*****	See below

* If a site-specific dilution factor (DF) value is used, then the input parameters used to calculate the DF must be recorded. If the default of 20 is used, please leave this column blank.

** Physical Soil Parameters (see Datasheet A)

*** Kd value reported on Datasheet SSL-VI

**** Chemical Properties (see Datasheet C)

***** Toxicological Properties (see Datasheet D)

Chemical Name	Cw (mg/L)	Kd (L/kg)	H' (unitless)	Koc (L/kg)	GWobj (mg/L)	SFo [1/(mg/kg-d)]	Soil Cleanup Objective Based Upon Migration to Groundwater or Csat* (mg/kg)
Benzene	0.500	5.12E-001	2.28E-001	5.89E+001	0.02500	0.029000	0.3662

0131

Datasheet SSL-VI(a2): Volatilization Factor for the Industrial/Commercial Exposure Scenario

Datasheet SSL-VI(a2) is to be used to propose the volatilization factor(s) for the SSL equations. Equations S8, S10, S16, S17, and S18 are used in calculating VF values.

Land Use Scenario: **Industrial/Commercial**

Engineered Barrier	YES	NO	Physical Soil Parameters	
Institutional Control	YES	NO	Θa (unitless) *	0.35
Q/Cvf (g/m²-s))/(kg/m³)	85.81		Θw (unitless) *	0.15
α (cm²/sec)	No Longer Used		ρb (g/cm³)	1.26
T (s)	790,000,000		η (unitless) *	0.50
DA (cm²/sec)	See Below		foc (unitless) *	0.029
Dw (cm²/sec)	See Below			
Di (cm²/sec) **	See Below			
H' (unitless) **	See Below			
Kd (cm³/g)	See Below			
Koc (cm³/g) **	See Below			

* Physical Soil Parameters (see Datasheet A)

** Chemical Properties (see Datasheet C)

Chemical Name	DA (cm²/sec)	Dw (cm²/sec)	Di (cm²/sec)	H' (unitless)	Kd (cm³/g)	Koc (L/kg)	VF (m³/kg)
Benzene	1.02E-003	9.80E-006	0.08800	2.28E-00	1.71	5.89E+001	2,824.73
Ethylbenzene	2.17E-004	7.80E-006	0.07500	3.23E-00	10.53	3.63E+002	5,425.84
Naphthalene	1.94E-006	7.50E-006	0.05900	1.98E-00	58.00	2.00E+003	55,678.68
Xylenes (total)	2.24E-004	9.34E-006	0.07200	2.50E-00	7.54	2.60E+002	5,387.49

Datasheet SSL-VI(b). Volatilization Factor for Construction Worker Scenario

Datasheet SSL-VI(b) is to be used to propose the volatilization factor(s) (VF') for the SSL equations. Since the values listed in Datasheet SSL-VI(a) are used in this evaluation, this datasheet must also be submitted.

Areas(s)/Location(s) at the site, if applicable: _____

Land Use Scenario: **Construction Worker**

Engineered Barrier	YES	NO
Institutional Control	YES	NO

Chemical Name	VF (m^3/kg)	VF' (m^3/kg)
Benzene	190.68	19.07
Ethylbenzene	366.27	36.63
Naphthalene	3,758.60	375.86
Xylenes (total)	363.68	36.37

Datasheet A: Physical Soil Parameters for the SSL Equations

Area(s)/Location(s) at the site, if applicable:

Predominant Soil Type (e.g., clay, sand, silty clay, etc.):

Surface (top 1 meter) or Subsurface (below 1 meter):

Site-specifc values [i.e., field measurements (F=) or calculated values using the SSL equation (Sxx=)] ar to be reported if they are used in developing the Tier 2 cleanup objectives. Acceptable procedures for obtaining these values are identified in Appendix C, Table F of TACO.

Parameter	Soil Type	Default Value	Units	Field Measurement or Calculated	Value
ρb (Soil Bulk Density)	Surface and/or Subsurface soils	1.5	kg/L	F =	
	Gravel	2.0			
	Sand	1.8		Surface	1.26
	Silt	1.6		Subsurface	1.50
	Clay	1.7			
ρs (Soil Particle Density)	Surface and/or Subsurface	2.65	g/cm³	Surface Subsurface	2.52 2.64
w (Moisture Content)	Surface and/or Subsurface Soils	0.1	gwater/gsoil (unitless)		
	Surface Soils	0.1			
	Subsurface Soils	0.2			
foc (Organic Carbon Content)	Surface Soils	0.006	g/g (unitless)	Surface	0.029
	Subsurface Soils	0.002		Subsurface	0.009
η (Total Soil Porosity)	Surface and/or Subsurface Soils	0.43	Lpore/Lsoil (unitless)		
	Gravel	0.25			
	Sand	0.32		Surface	0.50
	Silt	0.40		Subsurface	0.43
	Clay	0.36			
θa (Air-filled Soil Porosity)	Surface Soils	0.28	Lair/Lsoil (unitless)		
	Subsurface Soils	0.13			
	Gravel	0.05			
	Sand	0.14		Surface	0.35
	Silt	0.24		Subsurface	0.13
	Clay	0.19			
θw					

Datasheet A: Physical Soil Parameters for the SSL Equations

(Water-filled Soil Porosity)	Surface	0.15	Lwater/Lsoil		
	Subsurface Soils	0.30	(unitless)		
	Gravel	0.20		Surface	0.15
	Sand	0.18		Subsurface	0.30
	Silt	0.16			
	Clay	0.17			

Datasheet C: Chemical Properties

0136

Chemical	Solubility in Water (S) (mg/L)	Diffusivity in Air (Di) (cm^2/s)	Diffusivity in Water (Dw) (cm^2/s)	Henry's Law Constant (H' @ 25°C)	Organic Carbon Partition Coefficient (Koc - L/kg)	First Order Decay Constant (λ - 1/day)
Benzene	1.75E+003	8.80E-002	9.80E-006	2.28E-001	5.89E+001	0.000900
Ethylbenzene	1.69E+002	7.50E-002	7.80E-006	3.23E-001	3.63E+002	0.003000
Naphthalene	3.10E+001	5.90E-002	7.50E-006	1.98E-002	2.00E+003	0.002700
Xylenes (total)	1.86E+002	7.20E-002	9.34E-006	2.50E-001	2.60E+002	0.001900

Datasheet D: Toxicological Properties

0137

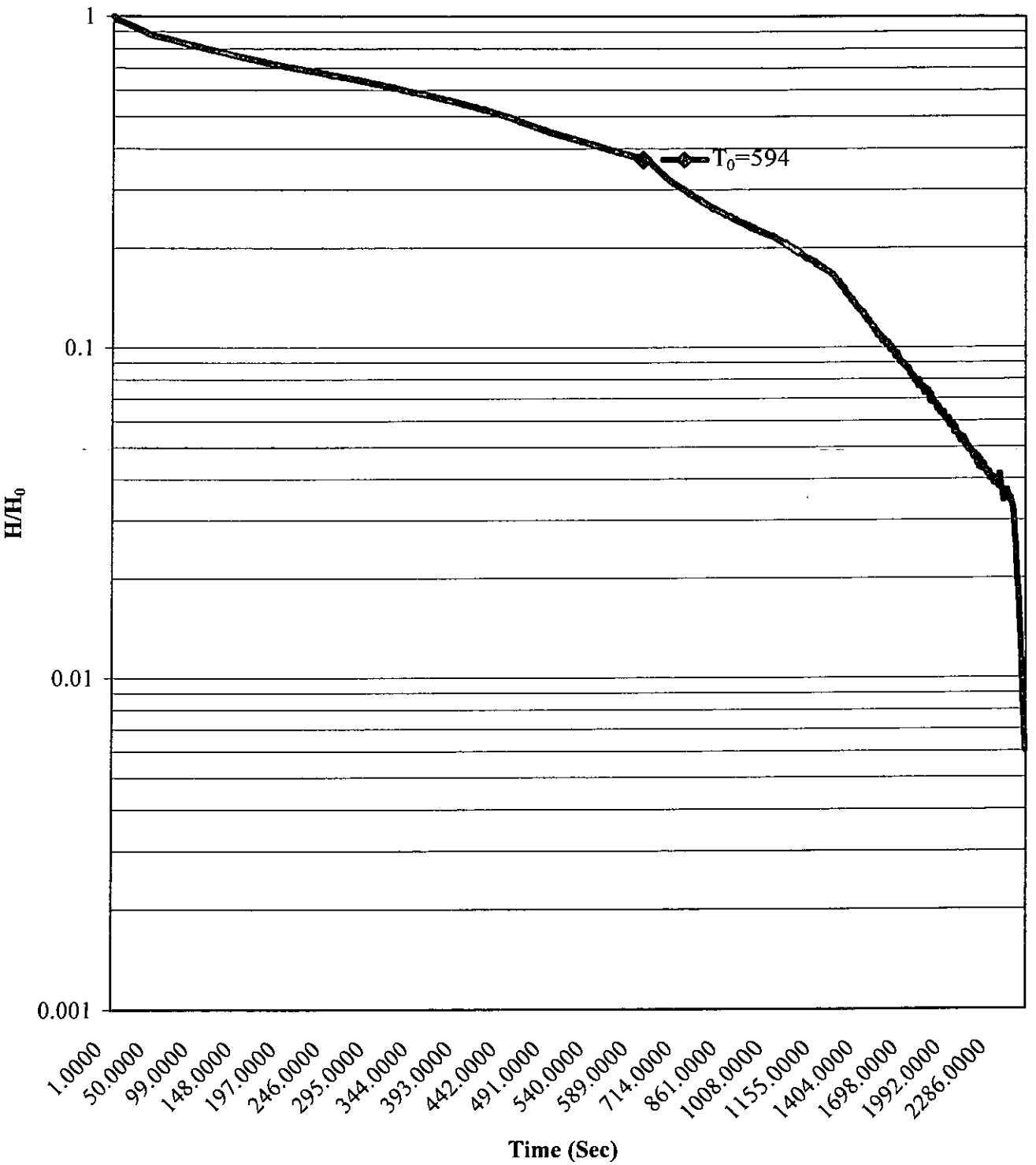
Chemical	Carcinogenicity Information			Non-Carcinogenicity Information					
	Unit Risk Factor 1/(mg/m³)	Inhalation Slope Factor 1/(mg/kg•day)	Oral Slope Factor 1/(mg/kg•day)	Chronic Oral RfD (mg/kg•day)	Subchronic Oral RfD (mg/kg•day)	Chronic Inhalation RfD (mg/kg•day)	Subchronic Inhalation RfD (mg/kg•day)	Chronic RfC (mg/m³)	Subchronic RfC (mg/m³)
Benzene	0.0000078	0.029	0.029						
Ethylbenzene			0.000	0.100	0.100	0.29000	0.29000	1.000000	1.0000
Naphthalene			0.000	0.040	0.040	0.00086	0.00086	0.003000	0.0030
Xylenes (total)			0.000	2.000	2.000	0.03000	0.03000		0.4000

Datasheet E: Soil Saturation Limits

0138

Chemical	Constituent Properties: Solubility mg/L	Kd (Surface) cm^3/g	Kd (Subsurface) cm^3/g	Henry's Law Constant (H') (dimensionless)	Organic Carbon Partition Coefficient (Koc)	Saturation Limits: Csat (Surface Soils) mg/kg	Csat (Subsurface Soils) mg/kg
Benzene	1.75E+003	1.708	0.512	2.28E-001	5.89E+001	3,308.34	1,281.87
Ethylbenzene	1.69E+002	10.527	3.158	3.23E-001	3.63E+002	1,814.35	572.32
Naphthalene	3.10E+001	58.000	17.400	1.98E-002	2.00E+003	1,801.86	545.65
Xylenes (total)	1.86E+002	7.540	2.262	2.50E-001	2.60E+002	1,437.50	462.02

Freedom Oil Company - Champaign
Slug Test Results



Hydraulic Conductivity/Groundwater Yield Calculations

Freedom Oil Company
Champaign, Illinois

Hydraulic Conductivity Calculations using:

$$k = \frac{r^2 \ln(L/R)}{2LT_0}$$

Where:
- k = Hydraulic Conductivity
- L = filter pack length (in) — L= 12ft = 144 in
- R = filter pack radius (in) — R= 4 in
- r = riser radius (in) — r = 1 in
- T_0 = Basic Time Lag (sec) — T_0= 594 sec

SLUG TEST CALCULATIONS

$$k_2 = \frac{(1)^2 \ln(144/4)}{2 * 144 * 594}$$

= 2.09E-05 in/sec

= 5.32E-05 cm/sec

Average Hydraulic Conductivity = 5.32E-05 cm/sec = 4.60 cm/d

Groundwater yield calculations using Darcy's Law:

Q = k i A

Where : Q = Discharge (gallons per day)
k = hydraulic conductivity (average):
IN-SITU = 5.32E-05 cm/sec = 0.15 ft/day

i = hydraulic gradient (set as 1 -- per IEPA methodology)
A = circumference of borehole X length of well screen (IEPA methodology) = 30.48 ft^2

FROM SLUG TEST:

Q = 4.60 ft^3/day
Q = 34.39 gallons per day

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
1	0.016666667	14.866	-3.159	1
2	0.033333333	14.874	-3.151	0.997467553
3	0.05	14.907	-3.118	0.987021209
4	0.066666667	14.936	-3.089	0.977841089
5	0.083333333	14.944	-3.081	0.975308642
6	0.1	14.95	-3.075	0.973409307
7	0.116666667	14.956	-3.069	0.971509972
8	0.133333333	14.964	-3.061	0.968977525
9	0.15	14.969	-3.056	0.967394745
10	0.166666667	14.975	-3.05	0.96549541
11	0.183333333	14.979	-3.046	0.964229186
12	0.2	14.987	-3.038	0.961696739
13	0.216666667	14.996	-3.029	0.958847737
14	0.233333333	15.004	-3.021	0.95631529
15	0.25	15.011	-3.014	0.954099399
16	0.266666667	15.017	-3.008	0.952200063
17	0.283333333	15.029	-2.996	0.948401393
18	0.3	15.036	-2.989	0.946185502
19	0.316666667	15.044	-2.981	0.943653055
20	0.333333333	15.053	-2.972	0.940804052
21	0.35	15.067	-2.958	0.93637227
22	0.366666667	15.07	-2.955	0.935422602
23	0.383333333	15.078	-2.947	0.932890155
24	0.4	15.083	-2.942	0.931307376
25	0.416666667	15.094	-2.931	0.927825261
26	0.433333333	15.1	-2.925	0.925925926
27	0.45	15.11	-2.915	0.922760367
28	0.466666667	15.117	-2.908	0.920544476
29	0.483333333	15.123	-2.902	0.918645141
30	0.5	15.13	-2.895	0.91642925
31	0.516666667	15.14	-2.885	0.913263691
32	0.533333333	15.148	-2.877	0.910731244
33	0.55	15.156	-2.869	0.908198797
34	0.566666667	15.161	-2.864	0.906616018
35	0.583333333	15.171	-2.854	0.903450459
36	0.6	15.179	-2.846	0.900918012
37	0.616666667	15.194	-2.831	0.896169674
38	0.633333333	15.198	-2.827	0.89490345
39	0.65	15.212	-2.813	0.890471668
40	0.666666667	15.219	-2.806	0.888255777
41	0.683333333	15.227	-2.798	0.88572333
42	0.7	15.234	-2.791	0.883507439
43	0.716666667	15.237	-2.788	0.882557771
44	0.733333333	15.245	-2.78	0.880025324
45	0.75	15.247	-2.778	0.879392213
46	0.766666667	15.255	-2.77	0.876859766
47	0.783333333	15.265	-2.76	0.873694207
48	0.8	15.265	-2.76	0.873694207
49	0.816666667	15.271	-2.754	0.871794872

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
50	0.833333333	15.277	-2.748	0.869895537
51	0.85	15.281	-2.744	0.868629313
52	0.866666667	15.282	-2.743	0.868312757
53	0.883333333	15.28	-2.745	0.868945869
54	0.9	15.289	-2.736	0.866096866
55	0.916666667	15.289	-2.736	0.866096866
56	0.933333333	15.298	-2.727	0.863247863
57	0.95	15.3	-2.725	0.862614752
58	0.966666667	15.302	-2.723	0.86198164
59	0.983333333	15.309	-2.716	0.859765749
60	1	15.312	-2.713	0.858816081
61	1.016666667	15.316	-2.709	0.857549858
62	1.033333333	15.316	-2.709	0.857549858
63	1.05	15.324	-2.701	0.855017411
64	1.066666667	15.335	-2.69	0.851535296
65	1.083333333	15.332	-2.693	0.852484964
66	1.1	15.333	-2.692	0.852168408
67	1.116666667	15.341	-2.684	0.849635961
68	1.133333333	15.345	-2.68	0.848369737
69	1.15	15.348	-2.677	0.84742007
70	1.166666667	15.354	-2.671	0.845520734
71	1.183333333	15.354	-2.671	0.845520734
72	1.2	15.362	-2.663	0.842988287
73	1.216666667	15.366	-2.659	0.841722064
74	1.233333333	15.37	-2.655	0.84045584
75	1.25	15.373	-2.652	0.839506173
76	1.266666667	15.382	-2.643	0.83665717
77	1.283333333	15.385	-2.64	0.835707502
78	1.3	15.389	-2.636	0.834441279
79	1.316666667	15.392	-2.633	0.833491611
80	1.333333333	15.398	-2.627	0.831592276
81	1.35	15.4	-2.625	0.830959164
82	1.366666667	15.406	-2.619	0.829059829
83	1.383333333	15.41	-2.615	0.827793606
84	1.4	15.415	-2.61	0.826210826
85	1.416666667	15.421	-2.604	0.824311491
86	1.433333333	15.419	-2.606	0.824944603
87	1.45	15.432	-2.593	0.820829376
88	1.466666667	15.429	-2.596	0.821779044
89	1.483333333	15.435	-2.59	0.819879709
90	1.5	15.436	-2.589	0.819563153
91	1.516666667	15.435	-2.59	0.819879709
92	1.533333333	15.444	-2.581	0.817030706
93	1.55	15.444	-2.581	0.817030706
94	1.566666667	15.455	-2.57	0.813548591
95	1.583333333	15.455	-2.57	0.813548591
96	1.6	15.465	-2.56	0.810383033
97	1.616666667	15.46	-2.565	0.811965812

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
98	1.633333333	15.463	-2.562	0.811016144
99	1.65	15.468	-2.557	0.809433365
100	1.666666667	15.477	-2.548	0.806584362
101	1.683333333	15.481	-2.544	0.805318139
102	1.7	15.478	-2.547	0.806267806
103	1.716666667	15.492	-2.533	0.801836024
104	1.733333333	15.489	-2.536	0.802785692
105	1.75	15.494	-2.531	0.801202912
106	1.766666667	15.5	-2.525	0.799303577
107	1.783333333	15.503	-2.522	0.798353909
108	1.8	15.506	-2.519	0.797404242
109	1.816666667	15.516	-2.509	0.794238683
110	1.833333333	15.517	-2.508	0.793922127
111	1.85	15.514	-2.511	0.794871795
112	1.866666667	15.521	-2.504	0.792655904
113	1.883333333	15.524	-2.501	0.791706236
114	1.9	15.528	-2.497	0.790440013
115	1.916666667	15.53	-2.495	0.789806901
116	1.933333333	15.53	-2.495	0.789806901
117	1.95	15.534	-2.491	0.788540677
118	1.966666667	15.54	-2.485	0.786641342
119	1.983333333	15.545	-2.48	0.785058563
120	2	15.551	-2.474	0.783159228
121	2.016666667	15.556	-2.469	0.781576448
122	2.033333333	15.557	-2.468	0.781259892
123	2.05	15.555	-2.47	0.781893004
124	2.066666667	15.565	-2.46	0.778727445
125	2.083333333	15.563	-2.462	0.779360557
126	2.1	15.566	-2.459	0.77841089
127	2.116666667	15.574	-2.451	0.775878443
128	2.133333333	15.575	-2.45	0.775561887
129	2.15	15.577	-2.448	0.774928775
130	2.166666667	15.588	-2.437	0.77144666
131	2.183333333	15.59	-2.435	0.770813549
132	2.2	15.591	-2.434	0.770496993
133	2.216666667	15.596	-2.429	0.768914213
134	2.233333333	15.603	-2.422	0.766698322
135	2.25	15.602	-2.423	0.767014878
136	2.266666667	15.607	-2.418	0.765432099
137	2.283333333	15.611	-2.414	0.764165875
138	2.3	15.61	-2.415	0.764482431
139	2.316666667	15.622	-2.403	0.760683761
140	2.333333333	15.622	-2.403	0.760683761
141	2.35	15.622	-2.403	0.760683761
142	2.366666667	15.628	-2.397	0.758784425
143	2.383333333	15.635	-2.39	0.756568534
144	2.4	15.633	-2.392	0.757201646
145	2.416666667	15.638	-2.387	0.755618867

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
146	2.433333333	15.639	-2.386	0.755302311
147	2.45	15.648	-2.377	0.752453308
148	2.466666667	15.648	-2.377	0.752453308
149	2.483333333	15.652	-2.373	0.751187085
150	2.5	15.657	-2.368	0.749604305
151	2.516666667	15.655	-2.37	0.750237417
152	2.533333333	15.661	-2.364	0.748338082
153	2.55	15.659	-2.366	0.748971193
154	2.566666667	15.667	-2.358	0.746438746
155	2.583333333	15.673	-2.352	0.744539411
156	2.6	15.672	-2.353	0.744855967
157	2.616666667	15.679	-2.346	0.742640076
158	2.633333333	15.677	-2.348	0.743273188
159	2.65	15.683	-2.342	0.741373852
160	2.666666667	15.684	-2.341	0.741057297
161	2.683333333	15.686	-2.339	0.740424185
162	2.7	15.692	-2.333	0.73852485
163	2.716666667	15.7	-2.325	0.735992403
164	2.733333333	15.701	-2.324	0.735675847
165	2.75	15.704	-2.321	0.734726179
166	2.766666667	15.7	-2.325	0.735992403
167	2.783333333	15.708	-2.317	0.733459956
168	2.8	15.719	-2.306	0.729977841
169	2.816666667	15.72	-2.305	0.729661285
170	2.833333333	15.714	-2.311	0.73156062
171	2.85	15.714	-2.311	0.73156062
172	2.866666667	15.733	-2.292	0.725546059
173	2.883333333	15.731	-2.294	0.726179171
174	2.9	15.745	-2.28	0.721747388
175	2.916666667	15.73	-2.295	0.726495726
176	2.933333333	15.734	-2.291	0.725229503
177	2.95	15.737	-2.288	0.724279835
178	2.966666667	15.743	-2.282	0.7223805
179	2.983333333	15.751	-2.274	0.719848053
180	3	15.756	-2.269	0.718265274
181	3.016666667	15.757	-2.268	0.717948718
182	3.033333333	15.759	-2.266	0.717315606
183	3.05	15.765	-2.26	0.715416271
184	3.066666667	15.763	-2.262	0.716049383
185	3.083333333	15.762	-2.263	0.716365939
186	3.1	15.77	-2.255	0.713833492
187	3.116666667	15.767	-2.258	0.714783159
188	3.133333333	15.775	-2.25	0.712250712
189	3.15	15.775	-2.25	0.712250712
190	3.166666667	15.781	-2.244	0.710351377
191	3.183333333	15.781	-2.244	0.710351377
192	3.2	15.784	-2.241	0.709401709
193	3.216666667	15.787	-2.238	0.708452042

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
194	3.233333333	15.791	-2.234	0.707185818
195	3.25	15.791	-2.234	0.707185818
196	3.266666667	15.798	-2.227	0.704969927
197	3.283333333	15.803	-2.222	0.703387148
198	3.3	15.801	-2.224	0.70402026
199	3.316666667	15.802	-2.223	0.703703704
200	3.333333333	15.808	-2.217	0.701804368
201	3.35	15.802	-2.223	0.703703704
202	3.366666667	15.808	-2.217	0.701804368
203	3.383333333	15.808	-2.217	0.701804368
204	3.4	15.817	-2.208	0.698955366
205	3.416666667	15.818	-2.207	0.69863881
206	3.433333333	15.813	-2.212	0.700221589
207	3.45	15.818	-2.207	0.69863881
208	3.466666667	15.827	-2.198	0.695789807
209	3.483333333	15.834	-2.191	0.693573916
210	3.5	15.83	-2.195	0.694840139
211	3.516666667	15.833	-2.192	0.693890472
212	3.533333333	15.833	-2.192	0.693890472
213	3.55	15.836	-2.189	0.692940804
214	3.566666667	15.838	-2.187	0.692307692
215	3.583333333	15.84	-2.185	0.691674581
216	3.6	15.845	-2.18	0.690091801
217	3.616666667	15.853	-2.172	0.687559354
218	3.633333333	15.853	-2.172	0.687559354
219	3.65	15.855	-2.17	0.686926242
220	3.666666667	15.851	-2.174	0.688192466
221	3.683333333	15.855	-2.17	0.686926242
222	3.7	15.861	-2.164	0.685026907
223	3.716666667	15.865	-2.16	0.683760684
224	3.733333333	15.87	-2.155	0.682177904
225	3.75	15.868	-2.157	0.682811016
226	3.766666667	15.868	-2.157	0.682811016
227	3.783333333	15.871	-2.154	0.681861349
228	3.8	15.874	-2.151	0.680911681
229	3.816666667	15.881	-2.144	0.67869579
230	3.833333333	15.879	-2.146	0.679328902
231	3.85	15.88	-2.145	0.679012346
232	3.866666667	15.883	-2.142	0.678062678
233	3.883333333	15.879	-2.146	0.679328902
234	3.9	15.892	-2.133	0.675213675
235	3.916666667	15.895	-2.13	0.674264008
236	3.933333333	15.892	-2.133	0.675213675
237	3.95	15.9	-2.125	0.672681228
238	3.966666667	15.9	-2.125	0.672681228
239	3.983333333	15.899	-2.126	0.672997784
240	4	15.899	-2.126	0.672997784
241	4.016666667	15.9	-2.125	0.672681228

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
242	4.033333333	15.912	-2.113	0.668882558
243	4.05	15.915	-2.11	0.66793289
244	4.066666667	15.921	-2.104	0.666033555
245	4.083333333	15.917	-2.108	0.667299778
246	4.1	15.917	-2.108	0.667299778
247	4.116666667	15.935	-2.09	0.661601773
248	4.133333333	15.93	-2.095	0.663184552
249	4.15	15.932	-2.093	0.66255144
250	4.166666667	15.936	-2.089	0.661285217
251	4.183333333	15.934	-2.091	0.661918329
252	4.2	15.926	-2.099	0.664450776
253	4.216666667	15.937	-2.088	0.660968661
254	4.233333333	15.94	-2.085	0.660018993
255	4.25	15.944	-2.081	0.65875277
256	4.266666667	15.944	-2.081	0.65875277
257	4.283333333	15.949	-2.076	0.657169991
258	4.3	15.949	-2.076	0.657169991
259	4.316666667	15.949	-2.076	0.657169991
260	4.333333333	15.959	-2.066	0.654004432
261	4.35	15.954	-2.071	0.655587211
262	4.366666667	15.956	-2.069	0.654954099
263	4.383333333	15.962	-2.063	0.653054764
264	4.4	15.964	-2.061	0.652421652
265	4.416666667	15.964	-2.061	0.652421652
266	4.433333333	15.969	-2.056	0.650838873
267	4.45	15.974	-2.051	0.649256094
268	4.466666667	15.971	-2.054	0.650205761
269	4.483333333	15.977	-2.048	0.648306426
270	4.5	15.979	-2.046	0.647673314
271	4.516666667	15.979	-2.046	0.647673314
272	4.533333333	15.983	-2.042	0.646407091
273	4.55	15.985	-2.04	0.645773979
274	4.566666667	15.986	-2.039	0.645457423
275	4.583333333	15.987	-2.038	0.645140867
276	4.6	15.997	-2.028	0.641975309
277	4.616666667	15.997	-2.028	0.641975309
278	4.633333333	16.006	-2.019	0.639126306
279	4.65	15.998	-2.027	0.641658753
280	4.666666667	16.011	-2.014	0.637543526
281	4.683333333	16.003	-2.022	0.640075973
282	4.7	16.006	-2.019	0.639126306
283	4.716666667	16.013	-2.012	0.636910415
284	4.733333333	16.014	-2.011	0.636593859
285	4.75	16.016	-2.009	0.635960747
286	4.766666667	16.02	-2.005	0.634694524
287	4.783333333	16.021	-2.004	0.634377968
288	4.8	16.028	-1.997	0.632162077
289	4.816666667	16.031	-1.994	0.631212409

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
290	4.833333333	16.037	-1.988	0.629313074
291	4.85	16.04	-1.985	0.628363406
292	4.866666667	16.038	-1.987	0.628996518
293	4.883333333	16.035	-1.99	0.629946186
294	4.9	16.038	-1.987	0.628996518
295	4.916666667	16.05	-1.975	0.625197847
296	4.933333333	16.049	-1.976	0.625514403
297	4.95	16.049	-1.976	0.625514403
298	4.966666667	16.054	-1.971	0.623931624
299	4.983333333	16.054	-1.971	0.623931624
300	5	16.061	-1.964	0.621715733
301	5.016666667	16.058	-1.967	0.6226654
302	5.033333333	16.065	-1.96	0.620449509
303	5.05	16.069	-1.956	0.619183286
304	5.066666667	16.066	-1.959	0.620132953
305	5.083333333	16.078	-1.947	0.616334283
306	5.1	16.073	-1.952	0.617917062
307	5.116666667	16.078	-1.947	0.616334283
308	5.133333333	16.086	-1.939	0.613801836
309	5.15	16.074	-1.951	0.617600506
310	5.166666667	16.086	-1.939	0.613801836
311	5.183333333	16.083	-1.942	0.614751504
312	5.2	16.085	-1.94	0.614118392
313	5.216666667	16.093	-1.932	0.611585945
314	5.233333333	16.1	-1.925	0.609370054
315	5.25	16.101	-1.924	0.609053498
316	5.266666667	16.092	-1.933	0.611902501
317	5.283333333	16.104	-1.921	0.60810383
318	5.3	16.103	-1.922	0.608420386
319	5.316666667	16.106	-1.919	0.607470719
320	5.333333333	16.11	-1.915	0.606204495
321	5.35	16.107	-1.918	0.607154163
322	5.366666667	16.116	-1.909	0.60430516
323	5.383333333	16.123	-1.902	0.602089269
324	5.4	16.122	-1.903	0.602405825
325	5.416666667	16.121	-1.904	0.602722381
326	5.433333333	16.128	-1.897	0.600506489
327	5.45	16.136	-1.889	0.597974042
328	5.466666667	16.133	-1.892	0.59892371
329	5.483333333	16.139	-1.886	0.597024375
330	5.5	16.137	-1.888	0.597657487
331	5.516666667	16.141	-1.884	0.596391263
332	5.533333333	16.144	-1.881	0.595441595
333	5.55	16.148	-1.877	0.594175372
334	5.566666667	16.146	-1.879	0.594808484
335	5.583333333	16.144	-1.881	0.595441595
336	5.6	16.157	-1.868	0.591326369
337	5.616666667	16.154	-1.871	0.592276037

Elapsed Time (sec)	Elapsed Time (Min)	INPUT I	H	H/H_0
338	5.633333333	16.164	-1.861	0.589110478
339	5.65	16.16	-1.865	0.590376701
340	5.666666667	16.16	-1.865	0.590376701
341	5.683333333	16.163	-1.862	0.589427034
342	5.7	16.169	-1.856	0.587527699
343	5.716666667	16.166	-1.859	0.588477366
344	5.733333333	16.173	-1.852	0.586261475
345	5.75	16.177	-1.848	0.584995252
346	5.766666667	16.176	-1.849	0.585311808
347	5.783333333	16.179	-1.846	0.58436214
348	5.8	16.182	-1.843	0.583412472
349	5.816666667	16.18	-1.845	0.584045584
350	5.833333333	16.185	-1.84	0.582462805
351	5.85	16.19	-1.835	0.580880025
352	5.866666667	16.194	-1.831	0.579613802
353	5.883333333	16.192	-1.833	0.580246914
354	5.9	16.2	-1.825	0.577714467
355	5.916666667	16.202	-1.823	0.577081355
356	5.933333333	16.202	-1.823	0.577081355
357	5.95	16.203	-1.822	0.576764799
358	5.966666667	16.202	-1.823	0.577081355
359	5.983333333	16.212	-1.813	0.573915796
360	6	16.204	-1.821	0.576448243
361	6.016666667	16.218	-1.807	0.572016461
362	6.033333333	16.22	-1.805	0.571383349
363	6.05	16.224	-1.801	0.570117126
364	6.066666667	16.23	-1.795	0.56821779
365	6.083333333	16.223	-1.802	0.570433682
366	6.1	16.231	-1.794	0.567901235
367	6.116666667	16.236	-1.789	0.566318455
368	6.133333333	16.239	-1.786	0.565368788
369	6.15	16.232	-1.793	0.567584679
370	6.166666667	16.24	-1.785	0.565052232
371	6.183333333	16.245	-1.78	0.563469452
372	6.2	16.247	-1.778	0.562836341
373	6.216666667	16.252	-1.773	0.561253561
374	6.233333333	16.254	-1.771	0.56062045
375	6.25	16.259	-1.766	0.55903767
376	6.266666667	16.26	-1.765	0.558721114
377	6.283333333	16.258	-1.767	0.559354226
378	6.3	16.256	-1.769	0.559987338
379	6.316666667	16.266	-1.759	0.556821779
380	6.333333333	16.27	-1.755	0.555555556
381	6.35	16.272	-1.753	0.554922444
382	6.366666667	16.273	-1.752	0.554605888
383	6.383333333	16.272	-1.753	0.554922444
384	6.4	16.28	-1.745	0.552389997
385	6.416666667	16.279	-1.746	0.552706553

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
386	6.433333333	16.286	-1.739	0.550490662
387	6.45	16.286	-1.739	0.550490662
388	6.466666667	16.288	-1.737	0.54985755
389	6.483333333	16.294	-1.731	0.547958215
390	6.5	16.295	-1.73	0.547641659
391	6.516666667	16.301	-1.724	0.545742324
392	6.533333333	16.295	-1.73	0.547641659
393	6.55	16.308	-1.717	0.543526432
394	6.566666667	16.306	-1.719	0.544159544
395	6.583333333	16.311	-1.714	0.542576765
396	6.6	16.315	-1.71	0.541310541
397	6.616666667	16.311	-1.714	0.542576765
398	6.633333333	16.32	-1.705	0.539727762
399	6.65	16.326	-1.699	0.537828427
400	6.666666667	16.326	-1.699	0.537828427
401	6.683333333	16.327	-1.698	0.537511871
402	6.7	16.327	-1.698	0.537511871
403	6.716666667	16.329	-1.696	0.536878759
404	6.733333333	16.337	-1.688	0.534346312
405	6.75	16.336	-1.689	0.534662868
406	6.766666667	16.343	-1.682	0.532446977
407	6.783333333	16.337	-1.688	0.534346312
408	6.8	16.348	-1.677	0.530864198
409	6.816666667	16.353	-1.672	0.529281418
410	6.833333333	16.35	-1.675	0.530231086
411	6.85	16.358	-1.667	0.527698639
412	6.866666667	16.361	-1.664	0.526748971
413	6.883333333	16.362	-1.663	0.526432415
414	6.9	16.365	-1.66	0.525482748
415	6.916666667	16.364	-1.661	0.525799304
416	6.933333333	16.378	-1.647	0.521367521
417	6.95	16.363	-1.662	0.526115859
418	6.966666667	16.374	-1.651	0.522633745
419	6.983333333	16.375	-1.65	0.522317189
420	7	16.379	-1.646	0.521050965
421	7.016666667	16.382	-1.643	0.520101298
422	7.033333333	16.385	-1.64	0.51915163
423	7.05	16.387	-1.638	0.518518519
424	7.066666667	16.39	-1.635	0.517568851
425	7.083333333	16.396	-1.629	0.515669516
426	7.1	16.403	-1.622	0.513453625
427	7.116666667	16.403	-1.622	0.513453625
428	7.133333333	16.409	-1.616	0.511554289
429	7.15	16.409	-1.616	0.511554289
430	7.166666667	16.413	-1.612	0.510288066
431	7.183333333	16.413	-1.612	0.510288066
432	7.2	16.419	-1.606	0.508388731
433	7.216666667	16.417	-1.608	0.509021842

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
434	7.233333333	16.423	-1.602	0.507122507
435	7.25	16.426	-1.599	0.50617284
436	7.266666667	16.428	-1.597	0.505539728
437	7.283333333	16.435	-1.59	0.503323837
438	7.3	16.437	-1.588	0.502690725
439	7.316666667	16.438	-1.587	0.502374169
440	7.333333333	16.439	-1.586	0.502057613
441	7.35	16.442	-1.583	0.501107946
442	7.366666667	16.447	-1.578	0.499525166
443	7.383333333	16.453	-1.572	0.497625831
444	7.4	16.451	-1.574	0.498258943
445	7.416666667	16.451	-1.574	0.498258943
446	7.433333333	16.457	-1.568	0.496359607
447	7.45	16.462	-1.563	0.494776828
448	7.466666667	16.465	-1.56	0.49382716
449	7.483333333	16.472	-1.553	0.491611269
450	7.5	16.469	-1.556	0.492560937
451	7.516666667	16.478	-1.547	0.489711934
452	7.533333333	16.48	-1.545	0.489078822
453	7.55	16.486	-1.539	0.487179487
454	7.566666667	16.483	-1.542	0.488129155
455	7.583333333	16.492	-1.533	0.485280152
456	7.6	16.498	-1.527	0.483380817
457	7.616666667	16.504	-1.521	0.481481481
458	7.633333333	16.508	-1.517	0.480215258
459	7.65	16.504	-1.521	0.481481481
460	7.666666667	16.508	-1.517	0.480215258
461	7.683333333	16.513	-1.512	0.478632479
462	7.7	16.517	-1.508	0.477366255
463	7.716666667	16.522	-1.503	0.475783476
464	7.733333333	16.524	-1.501	0.475150364
465	7.75	16.527	-1.498	0.474200696
466	7.766666667	16.531	-1.494	0.472934473
467	7.783333333	16.53	-1.495	0.473251029
468	7.8	16.536	-1.489	0.471351694
469	7.816666667	16.542	-1.483	0.469452358
470	7.833333333	16.544	-1.481	0.468819247
471	7.85	16.547	-1.478	0.467869579
472	7.866666667	16.548	-1.477	0.467553023
473	7.883333333	16.553	-1.472	0.465970244
474	7.9	16.558	-1.467	0.464387464
475	7.916666667	16.561	-1.464	0.463437797
476	7.933333333	16.562	-1.463	0.463121241
477	7.95	16.566	-1.459	0.461855017
478	7.966666667	16.574	-1.451	0.45932257
479	7.983333333	16.57	-1.455	0.460588794
480	8	16.578	-1.447	0.458056347
481	8.016666667	16.582	-1.443	0.456790123

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
482	8.033333333	16.58	-1.445	0.457423235
483	8.05	16.589	-1.436	0.454574232
484	8.066666667	16.592	-1.433	0.453624565
485	8.083333333	16.583	-1.442	0.456473568
486	8.1	16.596	-1.429	0.452358341
487	8.116666667	16.593	-1.432	0.453308009
488	8.133333333	16.602	-1.423	0.450459006
489	8.15	16.604	-1.421	0.449825894
490	8.166666667	16.614	-1.411	0.446660336
491	8.183333333	16.611	-1.414	0.447610003
492	8.2	16.614	-1.411	0.446660336
493	8.216666667	16.614	-1.411	0.446660336
494	8.233333333	16.621	-1.404	0.444444444
495	8.25	16.622	-1.403	0.444127889
496	8.266666667	16.619	-1.406	0.445077556
497	8.283333333	16.629	-1.396	0.441911997
498	8.3	16.627	-1.398	0.442545109
499	8.316666667	16.631	-1.394	0.441278886
500	8.333333333	16.638	-1.387	0.439062995
501	8.35	16.638	-1.387	0.439062995
502	8.366666667	16.636	-1.389	0.439696106
503	8.383333333	16.645	-1.38	0.436847104
504	8.4	16.646	-1.379	0.436530548
505	8.416666667	16.646	-1.379	0.436530548
506	8.433333333	16.648	-1.377	0.435897436
507	8.45	16.654	-1.371	0.433998101
508	8.466666667	16.652	-1.373	0.434631212
509	8.483333333	16.65	-1.375	0.435264324
510	8.5	16.658	-1.367	0.432731877
511	8.516666667	16.662	-1.363	0.431465654
512	8.533333333	16.664	-1.361	0.430832542
513	8.55	16.663	-1.362	0.431149098
514	8.566666667	16.667	-1.358	0.429882874
515	8.583333333	16.673	-1.352	0.427983539
516	8.6	16.671	-1.354	0.428616651
517	8.616666667	16.677	-1.348	0.426717316
518	8.633333333	16.673	-1.352	0.427983539
519	8.65	16.68	-1.345	0.425767648
520	8.666666667	16.681	-1.344	0.425451092
521	8.683333333	16.686	-1.339	0.423868313
522	8.7	16.689	-1.336	0.422918645
523	8.716666667	16.689	-1.336	0.422918645
524	8.733333333	16.692	-1.333	0.421968978
525	8.75	16.701	-1.324	0.419119975
526	8.766666667	16.693	-1.332	0.421652422
527	8.783333333	16.695	-1.33	0.42101931
528	8.8	16.7	-1.325	0.419436531
529	8.816666667	16.701	-1.324	0.419119975

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
530	8.833333333	16.706	-1.319	0.417537195
531	8.85	16.706	-1.319	0.417537195
532	8.866666667	16.713	-1.312	0.415321304
533	8.883333333	16.717	-1.308	0.414055081
534	8.9	16.714	-1.311	0.415004748
535	8.916666667	16.718	-1.307	0.413738525
536	8.933333333	16.721	-1.304	0.412788857
537	8.95	16.719	-1.306	0.413421969
538	8.966666667	16.726	-1.299	0.411206078
539	8.983333333	16.722	-1.303	0.412472301
540	9	16.728	-1.297	0.410572966
541	9.016666667	16.73	-1.295	0.409939854
542	9.033333333	16.736	-1.289	0.408040519
543	9.05	16.736	-1.289	0.408040519
544	9.066666667	16.736	-1.289	0.408040519
545	9.083333333	16.734	-1.291	0.408673631
546	9.1	16.747	-1.278	0.404558405
547	9.116666667	16.75	-1.275	0.403608737
548	9.133333333	16.747	-1.278	0.404558405
549	9.15	16.755	-1.27	0.402025958
550	9.166666667	16.752	-1.273	0.402975625
551	9.183333333	16.757	-1.268	0.401392846
552	9.2	16.756	-1.269	0.401709402
553	9.216666667	16.761	-1.264	0.400126622
554	9.233333333	16.766	-1.259	0.398543843
555	9.25	16.764	-1.261	0.399176955
556	9.266666667	16.771	-1.254	0.396961064
557	9.283333333	16.775	-1.25	0.39569484
558	9.3	16.771	-1.254	0.396961064
559	9.316666667	16.78	-1.245	0.394112061
560	9.333333333	16.777	-1.248	0.395061728
561	9.35	16.78	-1.245	0.394112061
562	9.366666667	16.784	-1.241	0.392845837
563	9.383333333	16.78	-1.245	0.394112061
564	9.4	16.786	-1.239	0.392212726
565	9.416666667	16.793	-1.232	0.389996834
566	9.433333333	16.792	-1.233	0.39031339
567	9.45	16.785	-1.24	0.392529281
568	9.466666667	16.799	-1.226	0.388097499
569	9.483333333	16.794	-1.231	0.389680279
570	9.5	16.805	-1.22	0.386198164
571	9.516666667	16.802	-1.223	0.387147832
572	9.533333333	16.806	-1.219	0.385881608
573	9.55	16.805	-1.22	0.386198164
574	9.566666667	16.806	-1.219	0.385881608
575	9.583333333	16.813	-1.212	0.383665717
576	9.6	16.815	-1.21	0.383032605
577	9.616666667	16.815	-1.21	0.383032605

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
578	9.633333333	16.812	-1.213	0.383982273
579	9.65	16.82	-1.205	0.381449826
580	9.666666667	16.817	-1.208	0.382399494
581	9.683333333	16.827	-1.198	0.379233935
582	9.7	16.827	-1.198	0.379233935
583	9.716666667	16.825	-1.2	0.379867047
584	9.733333333	16.83	-1.195	0.378284267
585	9.75	16.832	-1.193	0.377651155
586	9.766666667	16.836	-1.189	0.376384932
587	9.783333333	16.836	-1.189	0.376384932
588	9.8	16.833	-1.192	0.3773346
589	9.816666667	16.842	-1.183	0.374485597
590	9.833333333	16.846	-1.179	0.373219373
591	9.85	16.848	-1.177	0.372586261
592	9.866666667	16.851	-1.174	0.371636594
593	9.883333333	16.85	-1.175	0.37195315
594	**9.9**	**16.855**	**-1.17**	**0.37037037**
595	9.916666667	16.854	-1.171	0.370686926
596	9.933333333	16.857	-1.168	0.369737259
597	9.95	16.861	-1.164	0.368471035
598	9.966666667	16.867	-1.158	0.3665717
599	9.983333333	16.861	-1.164	0.368471035
600	10	16.866	-1.159	0.366888256
603	10.05	16.874	-1.151	0.364355809
606	10.1	16.88	-1.145	0.362456474
609	10.15	16.886	-1.139	0.360557138
612	10.2	16.891	-1.134	0.358974359
615	10.25	16.902	-1.123	0.355492244
618	10.3	16.908	-1.117	0.353592909
621	10.35	16.914	-1.111	0.351693574
624	10.4	16.919	-1.106	0.350110795
627	10.45	16.924	-1.101	0.348528015
630	10.5	16.936	-1.089	0.344729345
633	10.55	16.937	-1.088	0.344412789
636	10.6	16.946	-1.079	0.341563786
639	10.65	16.954	-1.071	0.339031339
642	10.7	16.958	-1.067	0.337765116
645	10.75	16.968	-1.057	0.334599557
648	10.8	16.967	-1.058	0.334916113
651	10.85	16.981	-1.044	0.33048433
654	10.9	16.983	-1.042	0.329851219
657	10.95	16.993	-1.032	0.32668566
660	11	16.994	-1.031	0.326369104
663	11.05	17.001	-1.024	0.324153213
666	11.1	17.004	-1.021	0.323203545
669	11.15	17.011	-1.014	0.320987654
672	11.2	17.018	-1.007	0.318771763
675	11.25	17.018	-1.007	0.318771763

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
678	11.3	17.025	-1	0.316555872
681	11.35	17.029	-0.996	0.315289649
684	11.4	17.036	-0.989	0.313073758
687	11.45	17.038	-0.987	0.312440646
690	11.5	17.04	-0.985	0.311807534
693	11.55	17.046	-0.979	0.309908199
696	11.6	17.047	-0.978	0.309591643
699	11.65	17.057	-0.968	0.306426084
702	11.7	17.055	-0.97	0.307059196
705	11.75	17.062	-0.963	0.304843305
708	11.8	17.067	-0.958	0.303260525
711	11.85	17.065	-0.96	0.303893637
714	11.9	17.073	-0.952	0.30136119
717	11.95	17.075	-0.95	0.300728079
720	12	17.077	-0.948	0.300094967
723	12.05	17.082	-0.943	0.298512187
726	12.1	17.089	-0.936	0.296296296
729	12.15	17.095	-0.93	0.294396961
732	12.2	17.098	-0.927	0.293447293
735	12.25	17.1	-0.925	0.292814182
738	12.3	17.108	-0.917	0.290281735
741	12.35	17.107	-0.918	0.290598291
744	12.4	17.107	-0.918	0.290598291
747	12.45	17.118	-0.907	0.287116176
750	12.5	17.12	-0.905	0.286483064
753	12.55	17.123	-0.902	0.285533397
756	12.6	17.126	-0.899	0.284583729
759	12.65	17.13	-0.895	0.283317506
762	12.7	17.132	-0.893	0.282684394
765	12.75	17.14	-0.885	0.280151947
768	12.8	17.137	-0.888	0.281101614
771	12.85	17.14	-0.885	0.280151947
774	12.9	17.143	-0.882	0.279202279
777	12.95	17.155	-0.87	0.275403609
780	13	17.156	-0.869	0.275087053
783	13.05	17.162	-0.863	0.273187718
786	13.1	17.161	-0.864	0.273504274
789	13.15	17.162	-0.863	0.273187718
792	13.2	17.167	-0.858	0.271604938
795	13.25	17.174	-0.851	0.269389047
798	13.3	17.172	-0.853	0.270022159
801	13.35	17.176	-0.849	0.268755935
804	13.4	17.183	-0.842	0.266540044
807	13.45	17.19	-0.835	0.264324153
810	13.5	17.185	-0.84	0.265906933
813	13.55	17.197	-0.828	0.262108262
816	13.6	17.192	-0.833	0.263691041
819	13.65	17.195	-0.83	0.262741374

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
822	13.7	17.194	-0.831	0.26305793
825	13.75	17.202	-0.823	0.260525483
828	13.8	17.2	-0.825	0.261158594
831	13.85	17.207	-0.818	0.258942703
834	13.9	17.211	-0.814	0.25767648
837	13.95	17.213	-0.812	0.257043368
840	14	17.213	-0.812	0.257043368
843	14.05	17.214	-0.811	0.256726812
846	14.1	17.215	-0.81	0.256410256
849	14.15	17.223	-0.802	0.253877809
852	14.2	17.225	-0.8	0.253244698
855	14.25	17.225	-0.8	0.253244698
858	14.3	17.233	-0.792	0.250712251
861	14.35	17.233	-0.792	0.250712251
864	14.4	17.234	-0.791	0.250395695
867	14.45	17.235	-0.79	0.250079139
870	14.5	17.234	-0.791	0.250395695
873	14.55	17.241	-0.784	0.248179804
876	14.6	17.24	-0.785	0.24849636
879	14.65	17.249	-0.776	0.245647357
882	14.7	17.252	-0.773	0.244697689
885	14.75	17.253	-0.772	0.244381133
888	14.8	17.255	-0.77	0.243748022
891	14.85	17.253	-0.772	0.244381133
894	14.9	17.263	-0.762	0.241215575
897	14.95	17.265	-0.76	0.240582463
900	15	17.264	-0.761	0.240899019
903	15.05	17.268	-0.757	0.239632795
906	15.1	17.271	-0.754	0.238683128
909	15.15	17.271	-0.754	0.238683128
912	15.2	17.272	-0.753	0.238366572
915	15.25	17.278	-0.747	0.236467236
918	15.3	17.276	-0.749	0.237100348
921	15.35	17.281	-0.744	0.235517569
924	15.4	17.287	-0.738	0.233618234
927	15.45	17.289	-0.736	0.232985122
930	15.5	17.285	-0.74	0.234251345
933	15.55	17.296	-0.729	0.230769231
936	15.6	17.291	-0.734	0.23235201
939	15.65	17.301	-0.724	0.229186451
942	15.7	17.301	-0.724	0.229186451
945	15.75	17.297	-0.728	0.230452675
948	15.8	17.303	-0.722	0.22855334
951	15.85	17.311	-0.714	0.226020893
954	15.9	17.31	-0.715	0.226337449
957	15.95	17.312	-0.713	0.225704337
960	16	17.312	-0.713	0.225704337
963	16.05	17.317	-0.708	0.224121557

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
966	16.1	17.321	-0.704	0.222855334
969	16.15	17.32	-0.705	0.22317189
972	16.2	17.32	-0.705	0.22317189
975	16.25	17.324	-0.701	0.221905666
978	16.3	17.326	-0.699	0.221272555
981	16.35	17.331	-0.694	0.219689775
984	16.4	17.331	-0.694	0.219689775
987	16.45	17.332	-0.693	0.219373219
990	16.5	17.337	-0.688	0.21779044
993	16.55	17.335	-0.69	0.218423552
996	16.6	17.337	-0.688	0.21779044
999	16.65	17.34	-0.685	0.216840772
1002	16.7	17.339	-0.686	0.217157328
1005	16.75	17.343	-0.682	0.215891105
1008	16.8	17.345	-0.68	0.215257993
1011	16.85	17.351	-0.674	0.213358658
1014	16.9	17.352	-0.673	0.213042102
1017	16.95	17.355	-0.67	0.212092434
1020	17	17.358	-0.667	0.211142767
1023	17.05	17.362	-0.663	0.209876543
1026	17.1	17.362	-0.663	0.209876543
1029	17.15	17.369	-0.656	0.207660652
1032	17.2	17.37	-0.655	0.207344096
1035	17.25	17.371	-0.654	0.20702754
1038	17.3	17.374	-0.651	0.206077873
1041	17.35	17.37	-0.655	0.207344096
1044	17.4	17.382	-0.643	0.203545426
1047	17.45	17.378	-0.647	0.204811649
1050	17.5	17.386	-0.639	0.202279202
1053	17.55	17.389	-0.636	0.201329535
1056	17.6	17.392	-0.633	0.200379867
1059	17.65	17.388	-0.637	0.201646091
1062	17.7	17.395	-0.63	0.199430199
1065	17.75	17.394	-0.631	0.199746755
1068	17.8	17.403	-0.622	0.196897752
1071	17.85	17.407	-0.618	0.195631529
1074	17.9	17.399	-0.626	0.198163976
1077	17.95	17.407	-0.618	0.195631529
1080	18	17.413	-0.612	0.193732194
1083	18.05	17.416	-0.609	0.192782526
1086	18.1	17.41	-0.615	0.194681861
1089	18.15	17.417	-0.608	0.19246597
1092	18.2	17.417	-0.608	0.19246597
1095	18.25	17.42	-0.605	0.191516303
1098	18.3	17.425	-0.6	0.189933523
1101	18.35	17.427	-0.598	0.189300412
1104	18.4	17.431	-0.594	0.188034188
1107	18.45	17.432	-0.593	0.187717632

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
1110	18.5	17.44	-0.585	0.185185185
1113	18.55	17.438	-0.587	0.185818297
1116	18.6	17.44	-0.585	0.185185185
1119	18.65	17.438	-0.587	0.185818297
1122	18.7	17.441	-0.584	0.184868629
1125	18.75	17.444	-0.581	0.183918962
1128	18.8	17.448	-0.577	0.182652738
1131	18.85	17.448	-0.577	0.182652738
1134	18.9	17.451	-0.574	0.181703071
1137	18.95	17.454	-0.571	0.180753403
1140	19	17.452	-0.573	0.181386515
1143	19.05	17.464	-0.561	0.177587844
1146	19.1	17.462	-0.563	0.178220956
1149	19.15	17.46	-0.565	0.178854068
1152	19.2	17.469	-0.556	0.176005065
1155	19.25	17.466	-0.559	0.176954733
1158	19.3	17.47	-0.555	0.175688509
1161	19.35	17.475	-0.55	0.17410573
1164	19.4	17.473	-0.552	0.174738841
1167	19.45	17.477	-0.548	0.173472618
1170	19.5	17.475	-0.55	0.17410573
1173	19.55	17.481	-0.544	0.172206394
1176	19.6	17.484	-0.541	0.171256727
1179	19.65	17.487	-0.538	0.170307059
1182	19.7	17.487	-0.538	0.170307059
1185	19.75	17.488	-0.537	0.169990503
1188	19.8	17.49	-0.535	0.169357392
1191	19.85	17.494	-0.531	0.168091168
1194	19.9	17.498	-0.527	0.166824945
1197	19.95	17.498	-0.527	0.166824945
1200	20	17.5	-0.525	0.166191833
1206	20.1	17.506	-0.519	0.164292498
1212	20.2	17.508	-0.517	0.163659386
1218	20.3	17.515	-0.51	0.161443495
1224	20.4	17.519	-0.506	0.160177271
1230	20.5	17.523	-0.502	0.158911048
1236	20.6	17.529	-0.496	0.157011713
1242	20.7	17.525	-0.5	0.158277936
1248	20.8	17.537	-0.488	0.154479266
1254	20.9	17.537	-0.488	0.154479266
1260	21	17.542	-0.483	0.152896486
1266	21.1	17.548	-0.477	0.150997151
1272	21.2	17.549	-0.476	0.150680595
1278	21.3	17.547	-0.478	0.151313707
1284	21.4	17.562	-0.463	0.146565369
1290	21.5	17.561	-0.464	0.146881925
1296	21.6	17.569	-0.456	0.144349478
1302	21.7	17.568	-0.457	0.144666034

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
1308	21.8	17.571	-0.454	0.143716366
1314	21.9	17.576	-0.449	0.142133587
1320	22	17.58	-0.445	0.140867363
1326	22.1	17.587	-0.438	0.138651472
1332	22.2	17.584	-0.441	0.13960114
1338	22.3	17.593	-0.432	0.136752137
1344	22.4	17.594	-0.431	0.136435581
1350	22.5	17.596	-0.429	0.135802469
1356	22.6	17.603	-0.422	0.133586578
1362	22.7	17.607	-0.418	0.132320355
1368	22.8	17.609	-0.416	0.131687243
1374	22.9	17.611	-0.414	0.131054131
1380	23	17.615	-0.41	0.129787908
1386	23.1	17.617	-0.408	0.129154796
1392	23.2	17.619	-0.406	0.128521684
1398	23.3	17.622	-0.403	0.127572016
1404	23.4	17.621	-0.404	0.127888572
1410	23.5	17.631	-0.394	0.124723014
1416	23.6	17.636	-0.389	0.123140234
1422	23.7	17.634	-0.391	0.123773346
1428	23.8	17.643	-0.382	0.120924343
1434	23.9	17.644	-0.381	0.120607787
1440	24	17.643	-0.382	0.120924343
1446	24.1	17.648	-0.377	0.119341564
1452	24.2	17.651	-0.374	0.118391896
1458	24.3	17.654	-0.371	0.117442229
1464	24.4	17.659	-0.366	0.115859449
1470	24.5	17.661	-0.364	0.115226337
1476	24.6	17.661	-0.364	0.115226337
1482	24.7	17.671	-0.354	0.112060779
1488	24.8	17.67	-0.355	0.112377335
1494	24.9	17.671	-0.354	0.112060779
1500	25	17.682	-0.343	0.108578664
1506	25.1	17.679	-0.346	0.109528332
1512	25.2	17.68	-0.345	0.109211776
1518	25.3	17.682	-0.343	0.108578664
1524	25.4	17.684	-0.341	0.107945552
1530	25.5	17.695	-0.33	0.104463438
1536	25.6	17.693	-0.332	0.10509655
1542	25.7	17.691	-0.334	0.105729661
1548	25.8	17.697	-0.328	0.103830326
1554	25.9	17.702	-0.323	0.102247547
1560	26	17.703	-0.322	0.101930991
1566	26.1	17.697	-0.328	0.103830326
1572	26.2	17.699	-0.326	0.103197214
1578	26.3	17.705	-0.32	0.101297879
1584	26.4	17.715	-0.31	0.09813232
1590	26.5	17.707	-0.318	0.100664767

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
1596	26.6	17.716	-0.309	0.097815764
1602	26.7	17.714	-0.311	0.098448876
1608	26.8	17.719	-0.306	0.096866097
1614	26.9	17.72	-0.305	0.096549541
1620	27	17.729	-0.296	0.093700538
1626	27.1	17.722	-0.303	0.095916429
1632	27.2	17.722	-0.303	0.095916429
1638	27.3	17.729	-0.296	0.093700538
1644	27.4	17.732	-0.293	0.092750871
1650	27.5	17.739	-0.286	0.090534979
1656	27.6	17.74	-0.285	0.090218424
1662	27.7	17.74	-0.285	0.090218424
1668	27.8	17.744	-0.281	0.0889522
1674	27.9	17.742	-0.283	0.089585312
1680	28	17.747	-0.278	0.088002532
1686	28.1	17.748	-0.277	0.087685977
1692	28.2	17.75	-0.275	0.087052865
1698	28.3	17.75	-0.275	0.087052865
1704	28.4	17.753	-0.272	0.086103197
1710	28.5	17.751	-0.274	0.086736309
1716	28.6	17.757	-0.268	0.084836974
1722	28.7	17.762	-0.263	0.083254194
1728	28.8	17.763	-0.262	0.082937638
1734	28.9	17.766	-0.259	0.081987971
1740	29	17.769	-0.256	0.081038303
1746	29.1	17.767	-0.258	0.081671415
1752	29.2	17.775	-0.25	0.079138968
1758	29.3	17.776	-0.249	0.078822412
1764	29.4	17.775	-0.25	0.079138968
1770	29.5	17.773	-0.252	0.07977208
1776	29.6	17.784	-0.241	0.076289965
1782	29.7	17.774	-0.251	0.079455524
1788	29.8	17.776	-0.249	0.078822412
1794	29.9	17.784	-0.241	0.076289965
1800	30	17.785	-0.24	0.075973409
1806	30.1	17.787	-0.238	0.075340298
1812	30.2	17.785	-0.24	0.075973409
1818	30.3	17.795	-0.23	0.072807851
1824	30.4	17.791	-0.234	0.074074074
1830	30.5	17.789	-0.236	0.074707186
1836	30.6	17.794	-0.231	0.073124406
1842	30.7	17.794	-0.231	0.073124406
1848	30.8	17.791	-0.234	0.074074074
1854	30.9	17.802	-0.223	0.070591959
1860	31	17.808	-0.217	0.068692624
1866	31.1	17.798	-0.227	0.071858183
1872	31.2	17.809	-0.216	0.068376068
1878	31.3	17.805	-0.22	0.069642292

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
1884	31.4	17.81	-0.215	0.068059513
1890	31.5	17.81	-0.215	0.068059513
1896	31.6	17.811	-0.214	0.067742957
1902	31.7	17.812	-0.213	0.067426401
1908	31.8	17.819	-0.206	0.06521051
1914	31.9	17.816	-0.209	0.066160177
1920	32	17.818	-0.207	0.065527066
1926	32.1	17.824	-0.201	0.06362773
1932	32.2	17.825	-0.2	0.063311174
1938	32.3	17.826	-0.199	0.062994619
1944	32.4	17.825	-0.2	0.063311174
1950	32.5	17.823	-0.202	0.063944286
1956	32.6	17.83	-0.195	0.061728395
1962	32.7	17.831	-0.194	0.061411839
1968	32.8	17.833	-0.192	0.060778727
1974	32.9	17.832	-0.193	0.061095283
1980	33	17.836	-0.189	0.05982906
1986	33.1	17.832	-0.193	0.061095283
1992	33.2	17.841	-0.184	0.05824628
1998	33.3	17.84	-0.185	0.058562836
2004	33.4	17.84	-0.185	0.058562836
2010	33.5	17.84	-0.185	0.058562836
2016	33.6	17.84	-0.185	0.058562836
2022	33.7	17.85	-0.175	0.055397278
2028	33.8	17.844	-0.181	0.057296613
2034	33.9	17.848	-0.177	0.056030389
2040	34	17.851	-0.174	0.055080722
2046	34.1	17.852	-0.173	0.054764166
2052	34.2	17.855	-0.17	0.053814498
2058	34.3	17.854	-0.171	0.054131054
2064	34.4	17.86	-0.165	0.052231719
2070	34.5	17.857	-0.168	0.053181387
2076	34.6	17.856	-0.169	0.053497942
2082	34.7	17.861	-0.164	0.051915163
2088	34.8	17.86	-0.165	0.052231719
2094	34.9	17.864	-0.161	0.050965495
2100	35	17.867	-0.158	0.050015828
2106	35.1	17.866	-0.159	0.050332384
2112	35.2	17.87	-0.155	0.04906616
2118	35.3	17.869	-0.156	0.049382716
2124	35.4	17.87	-0.155	0.04906616
2130	35.5	17.872	-0.153	0.048433048
2136	35.6	17.875	-0.15	0.047483381
2142	35.7	17.878	-0.147	0.046533713
2148	35.8	17.874	-0.151	0.047799937
2154	35.9	17.878	-0.147	0.046533713
2160	36	17.876	-0.149	0.047166825
2166	36.1	17.884	-0.141	0.044634378

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
2172	36.2	17.878	-0.147	0.046533713
2178	36.3	17.888	-0.137	0.043368154
2184	36.4	17.88	-0.145	0.045900601
2190	36.5	17.887	-0.138	0.04368471
2196	36.6	17.889	-0.136	0.043051599
2202	36.7	17.884	-0.141	0.044634378
2208	36.8	17.885	-0.14	0.044317822
2214	36.9	17.889	-0.136	0.043051599
2220	37	17.889	-0.136	0.043051599
2226	37.1	17.892	-0.133	0.042101931
2232	37.2	17.894	-0.131	0.041468819
2238	37.3	17.892	-0.133	0.042101931
2244	37.4	17.893	-0.132	0.041785375
2250	37.5	17.898	-0.127	0.040202596
2256	37.6	17.897	-0.128	0.040519152
2262	37.7	17.898	-0.127	0.040202596
2268	37.8	17.897	-0.128	0.040519152
2274	37.9	17.902	-0.123	0.038936372
2280	38	17.898	-0.127	0.040202596
2286	38.1	17.899	-0.126	0.03988604
2292	38.2	17.898	-0.127	0.040202596
2298	38.3	17.903	-0.122	0.038619816
2304	38.4	17.905	-0.12	0.037986705
2310	38.5	17.894	-0.131	0.041468819
2316	38.6	17.906	-0.119	0.037670149
2322	38.7	17.906	-0.119	0.037670149
2328	38.8	17.909	-0.116	0.036720481
2334	38.9	17.916	-0.109	0.03450459
2340	39	17.91	-0.115	0.036403925
2346	39.1	17.913	-0.112	0.035454258
2352	39.2	17.913	-0.112	0.035454258
2358	39.3	17.908	-0.117	0.037037037
2364	39.4	17.911	-0.114	0.036087369
2370	39.5	17.914	-0.111	0.035137702
2376	39.6	17.916	-0.109	0.03450459
2382	39.7	17.914	-0.111	0.035137702
2388	39.8	17.918	-0.107	0.033871478
2394	39.9	17.919	-0.106	0.033554922
2400	40	17.923	-0.102	0.032288699
2460	41	17.928	-0.097	0.03070592
2520	42	17.939	-0.086	0.027223805
2580	43	17.944	-0.081	0.025641026
2640	44	17.954	-0.071	0.022475467
2700	45	17.963	-0.062	0.019626464
2760	46	17.966	-0.059	0.018676796
2820	47	17.973	-0.052	0.016460905
2880	48	17.98	-0.045	0.014245014
2940	49	17.984	-0.041	0.012978791

Elapsed Time (sec)	Elapsed Time (Min)	INPUT 1	H	H/H_0
3000	50	17.991	-0.034	0.0107629
3060	51	17.998	-0.027	0.008547009
3120	52	18	-0.025	0.007913897
3180	53	18.004	-0.021	0.006647673
3240	54	18.006	-0.019	0.006014562
3299	54.98333333	18.025	0	0

Appendix D

Corrective Action Plan Budget

General Information for the Budget and Billing Forms

LPC#: 0910105433 County: Champaign

City: Champaign Site Name: Freedom Oil Company

Site Address: 1406 North Prospect

IEMA Incident No: 20080255

IEMA Notification Date: 2/25/2008

Date this form was prepared: July 1,2013

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

- [X] 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 as requested:

Name(s): _____

Date (s): _____

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

35 Ill. Adm. Code 734:

- [ ] Early Action
- [ ] Free Produce Removal After Early Action
- [ ] Site Investigation.....Stage 1: [ ] Stage 2: [ ] Stage 3: [ ]
- [X] Corrective Action

35 Ill. Adm. Code 732:

- [ ] Early Action
- [ ] Free Produce Removal After Early Action
- [ ] Site Classification
- [ ] Low Priority Corrective Action
- [ ] High Priority Corrective Action

35 Ill. 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: Freedom Oil Company

Send in care of: Mr. Mark Eckhoff

Address: 814 West Chestnut Street

City: Bloomington State: IL Zip: 61701

The payee is the: Owner [X] Operator [X] (Check one or both)

W-9 must be submitted.

Signature of the owner of operator of the UST(s) (required)

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 [X] 101 or more: [ ]

Number of USTs at the site: 8 (Number of USTs includes USTs presently at the site and USTs that have been removed).

Number of incidents reported to the IEMA for this site: 1

Incidents Numbers assigned to the site due to releases from USTs: 20080255 _____, _____, _____

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
diesel fuel	6,000	Yes [X] No [ ]	20080255	overfills/spills
gasoline	10,000	Yes [X] No [ ]	20080255	overfills/spills
gasoline	6,000	Yes [X] No [ ]	20080255	overfills/spills
gasoline	6,000	Yes [X] No [ ]	20080255	overfills/spills
gasoline	2,000	Yes [X] No [ ]	20080255	overfills/spills
diesel fuel	10,000	Yes [ ] No [X]	N/A	N/A
gasoline	8,000	Yes [ ] No [X]	N/A	N/A
gasoline	12,000	Yes [ ] No [X]	N/A	N/A
		[ ] [ ]		
		[ ] [ ]		
		[ ] [ ]		

Budget Summary

Chose 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					$1,429.23
Analytical Costs Form					$11,911.76
Remediation and Disposal Costs Form					$108,676.35
UST Removal and Abandonment Costs Form					$0.00
Paving, Demolition, and Well Abandonment Costs Form					$16,640.00
Consulting Personnel Costs Form					$53,694.76
Consultant's Materials Costs Form					$2,438.00
Handling Charges Form	Handling charges will be determined at the time a billing package is submitted to the Illinois EPA. The amount of allowable charges will be determined in accordance with the Handling Charges Form.				
Total					$194,790.10

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
3	PUSH	10.00	30.00	off-site contamination to south of MW-1
			0.00	
			0.00	
			0.00	
			0.00	
			0.00	

[X] Subpart H minimum payment amounts applies.

	Total Feet	Rate per Foot ($)	Total Cost ($)
Total Feet via HSA:	30.00	$21.44	$643.20
Total Feet via PUSH:			$0.00
Total Feet for Injection via PUSH:			$0.00
		Total Drilling Costs:	$1,429.23

2. Monitoring / Recovery Wells

Number of Wells	Type of Well HSA / PUSH / 4" - 6" Recovery / 8" Recovery	Diameter of Well (inches)	Depth of Well (feet)	Total Feet of Wells to Be Installed ($)
				0.00
				0.00
				0.00
				0.00
				0.00

Well Installation	Total Feet	Rate per Foot ($)	Total Cost ($)
Total Feet via HSA:			$0.00
Total Feet via PUSH:			$0.00
Total Feet of 4" or 6" Recovery:			$0.00
Total Feet of 8' or Greater Recovery:			$0.00
		Total Well Costs:	$0.00

Total Drilling and Monitoring Well Costs:	**$1,429.23**

Analytical Costs Form

Laboratory Analysis	Number of Samples		Cost ($) per Analysis		Total per Parameter
Chemical Analysis					
BTEX Soil with MTBE EPA 8260	32	x	$101.24	=	$3,239.68
BTEX Water with MTBE EPA 8260	9	x	$96.48	=	$868.32
COD (Chemical Oxygen Demand)		x	$32.71	=	$0.00
Corrosivity		x	$16.36	=	$0.00
Flash Point or Ignitability Analysis EPA 1010		x	$35.99	=	$0.00
Fraction Organic Carbon Content (f_{oc}) ASTM-D 2974-00		x	$41.44	=	$0.00
Fat, Oil, & Grease (FOG)		x	$65.43	=	$0.00
LUST Pollutants Soil - analysis must include volatile, base/ neutral, polynuclear aromatics and metals list in Section 732. Appendix B and 734. Appendix B.		x	$755.72	=	$0.00
Dissolved Oxygen (DO)		x	$26.17	=	$0.00
Paint Filter (Free Liquids)		x	$15.27	=	$0.00
PCB / Pesticides (combination)		x	$37.08	=	$0.00
PCBs		x	$165.76	=	$0.00
Pesticides		x	$165.76	=	$0.00
pH		x	$15.27	=	$0.00
Phenol		x	$37.08	=	$0.00
Polynuclear Aromatics PNAs or PAH SOIL EPA 8270	32	x	$181.04	=	$5,793.28
Polynuclear Aromatics PNA, PAH WATER EPA 8270	9	x	$181.04	=	$1,629.36
Reactivity		x	$74.15	=	$0.00
SVOC - Soil (Semi-Volatile Organic Compounds)		x	$341.33	=	$0.00
SVOC - Water (Semi-Volatile Organic Compounds)		x	$341.33	=	$0.00
TKN (Total Kjeldahl) "nitrogen"		x	$47.98	=	$0.00
TPH (Total Petroleum Hydrocarbons)		x	$133.04	=	$0.00
VOC (Volatile Organic Compound) - Soil (Non-Aqueous)		x	$190.84	=	$0.00
VOC (Volatile Organic Compound) - Water		x	$184.29	=	$0.00
		x		=	$0.00
		x		=	$0.00
		x		=	$0.00
		x		=	$0.00
		x		=	$0.00
Geo-Technical					
Bulk Density (p_b) ASTM D4292 / D2937		x	$23.99	=	$0.00
Ex-Situ Hydraulic Conductivity / Permeability		x	$278.08	=	$0.00
Moisture Content (w) ASTM D2216-90 / D4643-87		x	$13.09	=	$0.00
Porosity		x	$32.71	=	$0.00
Rock Hydraulic Conductivity Ex-Situ		x	$381.67	=	$0.00
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54		x	$158.12	=	$0.00
Soil Classification ASTM D2488-90 / D2487-90		x	$74.15	=	$0.00
Soil Particle Density (p_s) ASTM D854-92		x		=	$0.00
		x		=	$0.00
		x		=	$0.00
		x		=	$0.00

Analytical Costs Form

Metals Analysis					
Soil preparation fee for Metals Soil TCLP (one fee per soil sample)		x	$86.15	=	$0.00
Soil preparation fee for Metals Total Soil (one fee per soil sample)		x	$17.45	=	$0.00
Water Preparation fee for Metals in Water (one fee per water sample)		x	$12.00	=	$0.00
Arsenic TCLP Soil		x	$17.45	=	$0.00
Arsenic Total Soil		x	$17.45	=	$0.00
Arsenic Water		x	$19.63	=	$0.00
Barium TCLP Soil		x	$10.90	=	$0.00
Barium Total Soil		x	$10.90	=	$0.00
Barium Water		x	$13.09	=	$0.00
Cadmium TCLP Soil		x	$17.45	=	$0.00
Cadmium Total Soil		x	$17.45	=	$0.00
Cadmium Water		x	$19.63	=	$0.00
Chromium TCLP Soil		x	$10.90	=	$0.00
Chromium Total Soil		x	$10.90	=	$0.00
Chromium Water		x	$13.09	=	$0.00
Cyanide TCLP Soil		x	$30.53	=	$0.00
Cyanide Total Soil		x	$37.08	=	$0.00
Cyanide Water		x	$37.08	=	$0.00
Iron TCLP Soil		x	$10.90	=	$0.00
Iron Total Soil		x	$10.90	=	$0.00
Iron Water		x	$13.09	=	$0.00
Lead TCLP Soil		x	$17.45	=	$0.00
Lead Total Soil		x	$17.45	=	$0.00
Lead Water		x	$19.63	=	$0.00
Mercury TCLP Soil		x	$20.72	=	$0.00
Mercury Total Soil		x	$10.90	=	$0.00
Mercury Water		x	$28.35	=	$0.00
Selenium TCLP Soil		x	$17.45	=	$0.00
Selenium Total Soil		x	$17.45	=	$0.00
Selenium Water		x	$16.36	=	$0.00
Silver TCLP Soil		x	$10.90	=	$0.00
Silver Total Soil		x	$10.90	=	$0.00
Silver Water		x	$13.09	=	$0.00
Metals TCLP Soil (a combination of all RCRA metals)		x	$112.32	=	$0.00
Metals Total Soil (a combination of all RCRA metals)		x	$102.51	=	$0.00
Metals Water (a combination of all RCRA metals)		x	$129.77	=	$0.00
Other					
EnCore Sampler, purge-and-trap sampler or equivalent sampling device	32	x	$11.91	=	$381.12
Sample Shipping per sampling event[1]		x	$54.52	=	$0.00

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

Total Analytical Costs: **$11,911.76**

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
1,185	$67.89	$80,449.65

Backfilling the Excavation:

Number of Cubic Yards	Cost per Cubic Yard ($)	Total Cost
1,185	$23.82	$28,226.70

Overburden Removal and Return:

Number of Cubic Yards	Cost per Cubic Yard ($)	Total Cost
		$0.00

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 ($)	Total Cost ($)
		$0.00

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		$0.00

Total Remediation and Disposal Costs:	$108,676.35

UST Removal and Abandonment Costs Form

Product Stored in UST	Size (gallons)	Abandoned or Removed	Cost ($)	Did UST have a release?
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐
				Yes ☐ No ☐

Total UST Removal and Abandonment Costs: **$0.00**

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
3,200	Concrete	6	$5.20	replacement	$16,640.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00

Total Concrete and Asphalt Placement/Replacement Costs:	$16,640.00

B. Building Destruction or Dismantling and Canopy Removal

Item to Be Destroyed, Dismantled, or Removed	Unit Cost ($)	Total Cost ($)
		$0.00
		$0.00
		$0.00
		$0.00
		$0.00
		$0.00
		$0.00
		$0.00

Total Building Destruction or Dismantling and Canopy Removal Costs:	$0.00

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:	**$0.00**

Total Paving, Demolition, and Well Abandonment Costs:	**$16,640.00**

Consulting Personnel Costs Form

Employee Name	Personnel Title*	Hours	Rate *	Total $
Remediation Category	**Task**			
Allan Green	Senior Project Manager	120.00	$119.11	**$14,293.20**
CCAP/CCAP-Budget	CA project oversight, planning, permits, subcontractors			
Andrew Fetterolf	Project Manager	120.00	$107.20	**$12,864.00**
CCAP-Budget/CACR/CA reimb	CA report/budget preparation/CACR preparation/CA reimbursement			
Andrew Fetterolf	Project Manager	160.00	$107.20	**$17,152.00**
CCA-Field	off-site soil borings/excavation oversight/sample preparation			
Penny Silzer	Senior Prof. Geologist	30.00	$131.02	**$3,930.60**
CCA-Field	CA/tank removal/excavation oversight			
Andrew Fetterolf	Senior Scientist	20.00	$101.24	**$2,024.80**
CCA-Field	purge and sample monitoring wells, sample prep			
Gaye Lynn Green	Senior Admin. Assistant	20.00	$53.60	**$1,072.00**
CCAP-Budget/CACR/CA reimb	format, finalize, copy and bind all reports, correspondence, filing			
Gaye Lynn Green	Senior Acct. Technician	20.00	$65.50	**$1,310.00**
CCAP-Budget/CACR/CA reimb	CA reimbursements, billing, invoices			
Penny Silzer	Senior Prof. Geologist	8.00	$131.02	**$1,048.16**
CCAP-Budget/CA reimb	CA report/reimb. review and certification			

*Refer to the applicable Maximum Payment Amounts document.

Total of Consulting Personnel Costs	**$53,694.76**

Consultant's Materials Costs Form

Consulting Materials Costs:

Materials, Equipment, or Field Purchases	Time or Amount Use	Rate ($)	Units	Total Cost
Remediation Category	**Description/Justification**			
Company Vehicle Mileage	2160.00	$0.55	/mile	**$1,188.00**
CA-Field	site visits/mobilization to & from site for excavation/drilling (twelve 180 mile round trips)			
Photoionization Detector	12.00	$100.00	/day	**$1,200.00**
CA-Field	field screening of samples			
Well Sampling Equipment	2.00	$25.00	/day	**$50.00**
CA-Field	groundwater sampling equipment			
				$0.00
				$0.00
				$0.00
				$0.00
				$0.00

Total Consultant's Material's Costs: $2,438.00

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 20080255. I further certify that the costs set forth in this budget are 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 and no costs are included in this budget which 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 Section 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).
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/Operato Freedom Oil Company

Authorized Representative: Mr. Mark Eckhoff Title: V.P., Store Operations

Signature: Date: 6-26-13

Subscribed and sworn to before me the 26th day of June, 2013.
(Budget Proposals and Budget Amendments must be notarized when the certification is signed.)

Gaye Lynn Green (Notary Public) Seal:

GAYE LYNN GREEN
OFFICIAL SEAL
Notary Public - State of Illinois
My Commission Expires
April 02, 2017

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 ILCS5], 35 Ill. Adm. Code 732-734, 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.: Penny Silzer L.P.E./L.P.G. Seal:

LICENSED PROFESSIONAL GEOLOGIST
PENNY L. SILZER
NO. 196-000256
ILLINOIS

L.P.E./L.P.G. Signature: Penny Silzer Date: 7/1/13

Subscribed and sworn to before me the 1st day of July, 2013.

Gaye Lynn Green (Notary Public) Seal:

GAYE LYNN GREEN
OFFICIAL SEAL
Notary Public - State of Illinois
My Commission Expires
April 02, 2017

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.

Office of the Illinois
State Fire Marshal
"Partnering With the Fire Service to Protect Illinois"

CERTIFIED MAIL - RECEIPT REQUESTED #7008 0150 0003 4726 7673

August 7, 2008

Freedom Oil Company
814 W. Chestnut St.
Bloomington, IL 61701

In Re: Facility No. 4-016556
IEMA Incident No. 08-0255
Freedom Oil #32
1406 N. Prospect
Champaign, Champaign Co., IL

Dear Applicant:

The Reimbursement Eligibility and Deductible Application received on July 3, 2008 for the above referenced occurrence has been reviewed. The following determinations have been made based upon our review.

It has been determined that you are eligible to seek payment of costs in excess of **$10,000**. The costs must be in response to the occurrence referenced above and associated with the following tanks:

Eligible Tanks

Tank 1 6,000 gallon Diesel Fuel
Tank 2 10,000 gallon Gasoline
Tank 3 6,000 gallon Gasoline
Tank 4 6,000 gallon Gasoline
Tank 5 2,000 gallon Gasoline

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 deductibility. 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 mailing of the final decision, (35 Illinois Administrative Code 105.102(a) (2)).

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

Dorothy Gunn, 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 6 10,000 gallon Diesel Fuel
Tank 7 8,000 gallon Gasoline
Tank 8 12,000 gallon Gasoline

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 or (217) 785-5878.

Sincerely,

Deanne Lock
Administrative Assistant
Division of Petroleum and Chemical Safety

cc: IEPA
Facility File

GREEN WAVE CONSULTING, LLC

45-DAY REPORT
TIER 1 OBJECTIVES COMPLIANCE REPORT

SHREE KUBER, INC
1406 N. PROSPECT
CHAMPAIGN, ILLINOIS 61820
CHAMPAIGN COUNTY
LUST INCIDENT #20200005
LPC # 0190105433

Prepared for:
Shree Kuber, Inc.
1406 N. Prospect
Champaign, IL 61820

Prepared by:

Green Wave Consulting, LLC
4440 Ash Grove Drive, Suite A
Springfield, IL 62711

March 16, 2020

Jeff Wienhoff, P.E.
Senior Professional Engineer

Mike Bettenhausen
Senior Project Manager

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ATTACHMENTS

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
45 Day Report

A. Site Identification

IEMA Incident # (6 digits): 20200005 IEPA LPC # (10 digits): 0190105433

Site Name: Shree Kuber, Inc.

Site Address (Not a P.O. Box): 1406 N. Prospect

City: Champaign County: Champaign ZIP Code: 61820

Leaking UST Technical File

B. Release Information

UST Volume (Gallons)	Material Stored in UST	Release (Yes/No)	Type of Release (Tank Leak) (Overfill) (Piping Leak)	Product Removed? (Yes/No)	Tank Status (Repaired) (Removed) (Abandoned) (In Use)
10,000	Diesel Fuel	Yes	Tank Leak/Overfill / Piping Leak	Yes	Removed 01/22/20

C. Early Action

1. **Does this report demonstrate that the most stringent Tier 1 remediation objectives have been met?** Yes ☒ No ☐

2. **Was free product encountered?** Yes ☐ No ☒
   If **yes**, the owner or operator must submit a Free Product Removal Report (form LPC 504). If free product removal will be conducted for more than 45 days, a free product removal plan (and budget, if applicable) must be submitted (form LPC 504).

3. **Have any fire or safety hazards posed by vapors or free product or contamination to a potable water supply been identified?** Yes ☐ No ☒

4. **What was the volume of backfill material excavated?** 209.8 yds^3

5. **What was the volume of native soil excavated?** 0.0 yds^3

6. **Was groundwater encountered at the site?** Yes ☐ No ☒

7. **Did the groundwater exhibit a sheen?** Yes ☐ No ☐

D. Site/Release Information

Provide the following:

1. **Data on the nature and estimated quantity of the release;**

   The investigation site is the Shree Kuber, Inc. – Prospect Mini Mart station located at 1406 N. Prospect Ave. in Champaign, Champaign County, Illinois. **Figure 1** displays the surrounding land usage and **Figure 2** displays the entire subject parcel that is subject to IEMA 20200005. The site is currently an active convenience store undergoing property redevelopment.

   During a limited subsurface investigation, hydrocarbon impacted soil was found surrounding the diesel underground storage tank (UST) system. The investigation indicated a petroleum release around the USTs system through soil sampling. A release was reported to the Illinois Emergency Management Agency (IEMA) on January 3, 2020 and received Leaking Underground Storage Tank (LUST) incident number 20200005 concerning this release incident. This 45 Day Report is submitted to include documentation of all Early Action activities completed in response to release 20200005.

   The release incident is for one (1) 10,000-gallon capacity gasoline UST diesel fuel UST and associated product piping. This 45-Day Report has been prepared for the Shree Kuber, Inc. – Prospect Mini Mart site (Prospect Mini Mart) to document the Early Action activities conducted to date regarding the release. Although a release was confirmed, the quantity of the release is not known at this time.

2. **Data from available sources or site investigations concerning the following factors:**

   a. **Surrounding populations;**

      The site is located at 1406 N. Prospect Ave. in Champaign, Illinois. The site is currently an active/operating convenience store and gas station undergoing property redevelopment. The site is located within the city limits of the City of Champaign and is surrounded by light commercial properties. Bordering the subject site to the north is a commercial property which includes several small businesses. Several commercial

properties border the subject site to the East. Prospect Ave (IL Route 150) followed by several commercial properties, border the site to the west. A vacant commercial property borders the site directly to the south.

b. Water quality;

Based on information from the IEPA Source Water Assessment Program (SWAP) factsheet and the Safe Drinking Water Information System (SDWIS), the Illinois American Water Company-Champaign (Facility Number 0195300) obtains its water from 22 community water supply wells. Wells #35, #40, #41, #42, #43, #45, #46, #47, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, and #66 (Illinois EPA #45065, #46067, #45068, #45069, #45070, #45072, #45073, #45074, #45075, #45076, #45077, #45078, #45079, #45080, #45081, #45082, #45083, #45084, #00255, #00864, #01102, and #01336 respectively) provide an average of 21.3 million gallons per day to 45,990 direct services and 6,100 satellite services or a population of 141,000.

c. Use and approximate locations of wells potentially affected by the release;

During the Early Action field activities, no water supply wells were identified utilizing a visual search of the area.

The SWAP database was researched to identify potable wells within 2,500' of the site. According to the database, the well logs were available for eighteen (18) wells drilled within the search radius. Fifteen (15) of the well logs were for engineering or monitoring test wells. The remaining three (3) wells were potable wells. None of the potable wells setbacks extended with within 200' of the release area. The well results are summarized and illustrated within **Figure 4**. The SWAP database files are located in **Attachment 5**.

d. Subsurface Soil Conditions;

The subsurface investigation conducted as part of early action activities noted soils encountered beyond the sand backfill materials consisting of predominantly silty clay.

e. Location of subsurface sewers;

The sewer service for the station building exits the east side of the building and connects to the main running north and south along the eastern property line. There is also a storm sewer running along Prospect Ave right-of-way adjacent to the site's west property boundary.

f. Climatological conditions;

Weather conditions during the USTs removal were generally seasonal (temperature in the low 30s) with light variable winds and no precipitation. The weather conditions had no impact on early action activities associated with the USTs removal at this site.

Land use;

The site is currently an active convenience store undergoing renovations. Concrete, asphalt and rock cover the majority of the property with areas of grass near the property boundaries and right-of-ways. The surrounding area is a mix several light commercial properties.

3. **A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site;**

Green Wave Consulting, LLC (GWC) personnel observed and documented early action activities. After removal of the impacted backfill materials, GWC obtained a total of twelve (12) soil confirmation samples from the sidewalls, floor and piping trench of the soil excavation area. The confirmation samples generally displayed visual and olfactory indications of hydrocarbon impaction. The backfill exhibited moderate staining, with the remaining walls, floor and trenching exhibiting areas of light to moderate staining and odor. The soil sample locations and cross-section map showing approximate sample depths are presented in **Figures 2 and 3**.

Sampling personnel wore disposable latex sampling gloves during each soil sample collection procedure. Portions of the soil sample from each of the selected locations were placed into zipper locking bags and sealed. The soil was broken up within each bag to help increase the surface area for volatilization. A probe tip of a field portable photoionization detector (PID) was then inserted through the seal to measure for the presence of organic vapors in the headspace of the bags.

Concentrations were measured and are reported in parts-per-million (ppm) meter units. PID screening results along with sample depths for the Early Action soil confirmation samples are displayed in **Table I** in the tables section of this report. The soil had areas of obvious odor and staining, with all twelve (12) samples with screening results on the PID above 1 ppm. PID results ranged from 1.8 part per million-meter units in soil sample CS-8 to 182 ppm meter units in soil samples CS-6 and CS-11.

Additional portions of soil from each confirmation soil sample location were placed into laboratory approved jars using Method 5035A procedures. The sample jars were stored in a cooler on ice, were properly preserved, and then received by an IEPA accredited laboratory for confirmation analysis.

Pursuant to 35 Illinois Administrative Code (IAC) Section 734.405, the indicator contaminants for the diesel fuel UST associated with this release shall be benzene, toluene, ethylbenzene, xylenes (BTEX) and polynuclear aromatics (PNAs).

The confirmation soil samples were received by PDC Laboratories, Inc. in Springfield, Illinois under a properly completed/signed chain-of-custody form for laboratory analysis.

The analytical testing procedures were performed in accordance with IEPA and SW-846 protocols. The appropriate parameter testing results for the soil confirmation samples are presented in **Table II**. A copy of the laboratory reports and signed chain-of-custody and laboratory certification forms is presented in **Attachment 3**.

As displayed in **Table II**, none of the twelve (12) confirmation soil samples collected displayed concentrations above the corresponding most stringent Illinois Environmental Protection Agency (IEPA), Tiered Approach to Clean-up Objectives (TACO) Tier 1 Soil Remediation Objectives (SROs).

4. **Results of the free product investigations;**

Free product was not encountered during the early action investigation.

5. **A discussion of the action taken to prevent further release of the regulated substance into the environment;**

The source of contamination; one (1) 10,000-gallon capacity diesel fuel UST and associated product piping have been removed, cleaned/crushed and were transported to along with the contaminated backfill for proper disposal. The crushed tank and contaminated backfill materials were transported and properly disposed of at PDC Clinton Landfill, Inc. in Clinton, IL.

6. **A discussion of the action taken to mitigate fire and safety hazards posed by vapors or free product that have migrated from the UST excavation zone and entered subsurface structures;**

Subsurface features were screened with a Photo Ionization Detector (PID) before, during, and after the fueling system removal and no detectable concentrations of volatile organic compounds were identified.

7. **Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code 731.162, 732.2025(b) or 734.210(b).**

The abatement measures included the removal of the tank under the supervision of the OSFM STSS representative. After removal of the impacted soils, twelve (12) soil confirmation samples were collected and submitted to an accredited laboratory for appropriate analysis.

E. Supporting Documentation

Provide the following:

1. **An area map showing the site in relation to surrounding properties;**

   A Surrounding Land Usage map and a site area features map showing the site in relation to surrounding properties is presented in the report as **Figures 1 and 2**. The facilities on the surrounding properties are identified on the maps.

2. **A cross section, to scale, showing the UST(s) and the excavation;**

   A cross-section map is presented in the report as **Figure 3**.

3. **Analytical/screening results in tabular format including the results of soil samples required pursuant to 35 Ill. Adm. Code 732.202(h) or 734.210(h) and the most stringent Tier 1 remediation objectives;**

   Screening results are included in **Table I** and analytical results are summarized in **Table II** in the Tables section of this report and laboratory reports are presented in **Attachment 3**.

4. **Site map meeting the requirements of 35 Ill. Adm. Code 732.110(a) or 734.440 and including sample locations;**

   Please see the **Figures** section of the report.

5. **Soil Boring Logs**

   No soil borings were completed as part of early action activities.

6. **Chain of Custody Forms Certifications;**
7. **Laboratory Analytical Reports;**
8. **Laboratory Certifications;**

   Chain of Custody Forms, Laboratory Analytical Reports & Certifications are included in this report as **Attachment 3**.

9. **A copy of the Office of the Illinois State Fire Marshal Permit for Removal, Abandonment-In-Place, or other OSFM permits or notifications;**

   The OSFM UST Removal Permit documentation is presented in **Attachment 1**.

10. A narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed of;

On January 21, 2020, Earth Services initiated the removal of the dispensers and uncovering of the UST. On January 22, 2020, Earth Services continued the completed uncovering the UST and vented the one (1) 10,000-gallon capacity UST of vapors. GFL Environmental (Mokena, IL) was onsite and pumped down 3,000 gallons of residual fuel/water from the UST and visible impacted water from the tank pit. The one (1) 10,000-gallon diesel UST was removed cut/cleaned and properly disposed of under the supervision of OSFM representative Storage Tank Safety Specialist, Mr. Bruce Billman who witnessed and observed the UST system removal activities. Photographs of the UST removal and subsequent Early Action soil remediation activities can be found in **Attachment 2**.

The UST removal activities were initiated by fully uncovering the UST system. The tank was vented of flammable vapors through the eduction process. Contractor personnel tested the interior atmosphere of the tanks to ensure that the lower explosive limit levels were less than 5% before proceeding with tank removal. Upon approval from the OSFM inspector, the tank was removed from the ground and prepared for inspection and cleaning. Access holes allowed ventilation and reintroduction of breathable air to the USTs. Product piping was also removed from the subsurface.

During the UST removal activities, Mr. Bruce Billman confirmed obvious indications of a release with visual and olfactory indications of contaminated soils in the excavation.

The interior tank cleaning process entailed the removal of remaining petroleum residue and any residual product. The remaining residue materials were properly removed. An oil dry absorbent material was spread throughout the tank interiors to absorb any residual product. The remaining materials were removed with a shovel and placed into a 55-gallon drum outside the tanks and were disposed of along with the impacted soils during Early Action excavation activities. The OSFM representative observed obvious signs of hydrocarbon contaminated soils associated with the reported 20200005 incident number for the tank system release. The cleaned and crushed tank was loaded and transported off-site for proper landfill disposal at PDC Landfill in Clinton, IL.

Following the removal of the UST, Early Action soil remediation activities were conducted. The project was initiated with the removal of backfill soils from the cavity within four (4) feet of the former 10,000-gallon capacity diesel fuel UST. The backfill soils displayed moderate hydrocarbon odors and staining. The results are included in **Attachment 3**. A total of 314.7 tons (209.8 cu. yds) of impacted soils were removed and loaded onto trucks for proper off-site disposal. The remaining native sidewalls and floor of the cavity had areas which displayed light to moderate signs of remaining hydrocarbon impaction, but all confirmation sample results were below the applicable Tier I objectives.

The impacted soils were transported using proper waste manifests to PDC Landfill located in Clinton, Illinois, for disposal. Copies of the soil disposal forms can be found in **Attachment 4**.

11. Photographs of UST removal activities and the excavation;

Photographs of the UST system removal are included as **Attachment 2**.

12. Copies of manifests for soil and groundwater transported off-site.

Copies of the water and soil disposal documents can be found in **Attachment 4**.

F. Early Action Tier 1 Remediation Objectives Compliance Report

If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have not been met and a groundwater investigation is required, in addition to the information provided above, provide the following.

1. Site characterization;

Tier 1 remediation objectives have been met in the samples collected at the extent of the excavation. Visibly impacted water within the UST tank pit was removed and properly disposed of by GFL Environmental. No recharge was noted after the initial visibly contaminated water was removed. Based on the documentation provided in this report, Shree Kuber, Inc. petitions the Illinois EPA to issue a No Further Remediation letter for IEMA 20200005.

2. If water was encountered during the excavation, provide a demonstration pursuant to 35 Ill. Adm. Code 732.202(h)(4)(C) or 734.210(h)(4)(C) that it is not representative of actual groundwater;

Visibly contaminated water was noticeable within the UST excavation area during the removal of the UST. On January 22, 2020 GFL Environmental pumped, transported and properly disposed of a total of 3,000 gallons of residual fuel/water from the UST and visible impacted water from the tank pit. No groundwater recharge was noted when returning January 23, 2020 to complete excavation activities, nor was groundwater recharge noted January 24, 2020 when backfilling activities were completed. No groundwater investigation is proposed as a result of IEMA 20200005.

3. Property Owner Summary (form LPC 568).

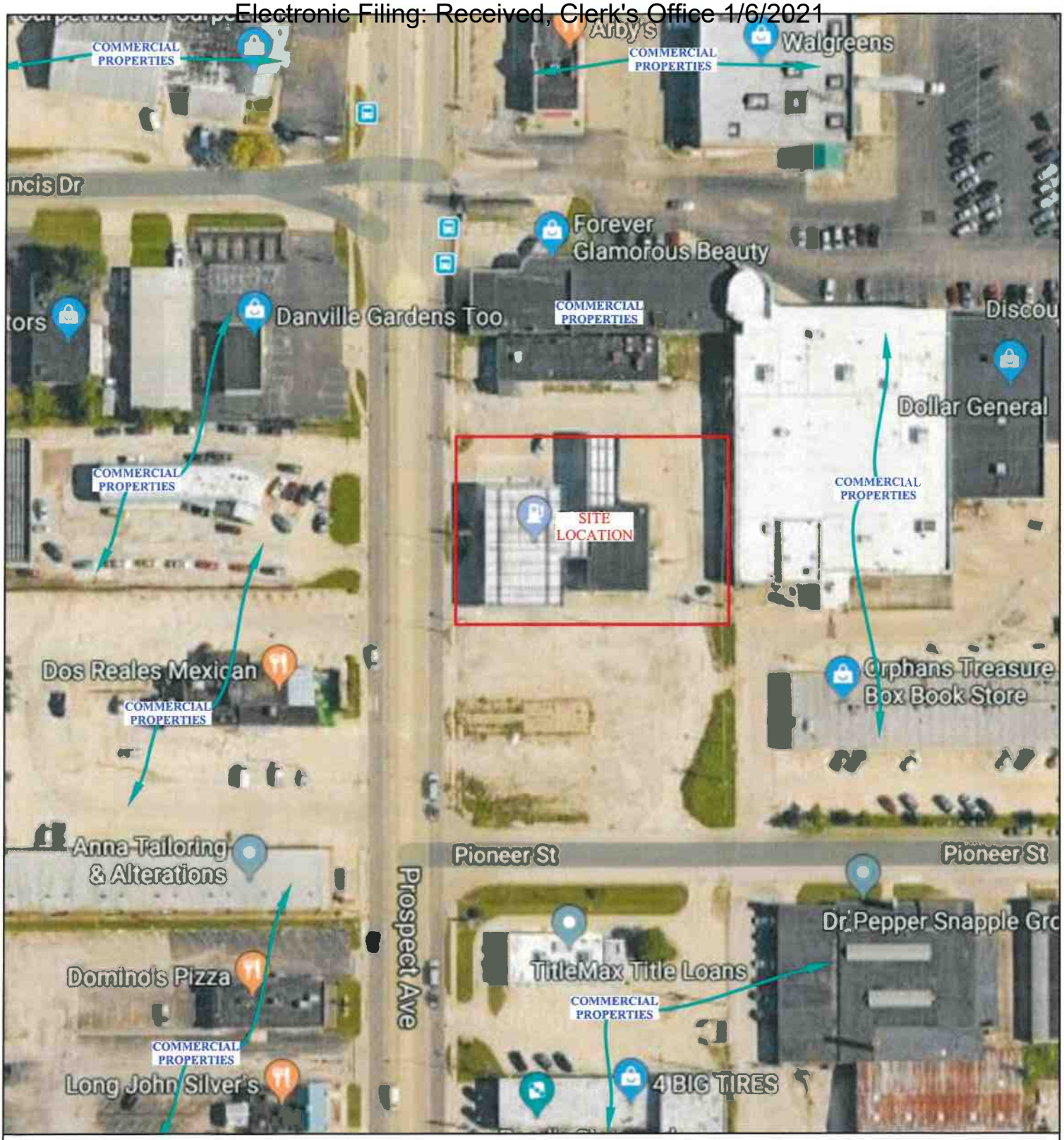
The Property Owner Summary Form is included in **Attachment 6**.

G. Signatures

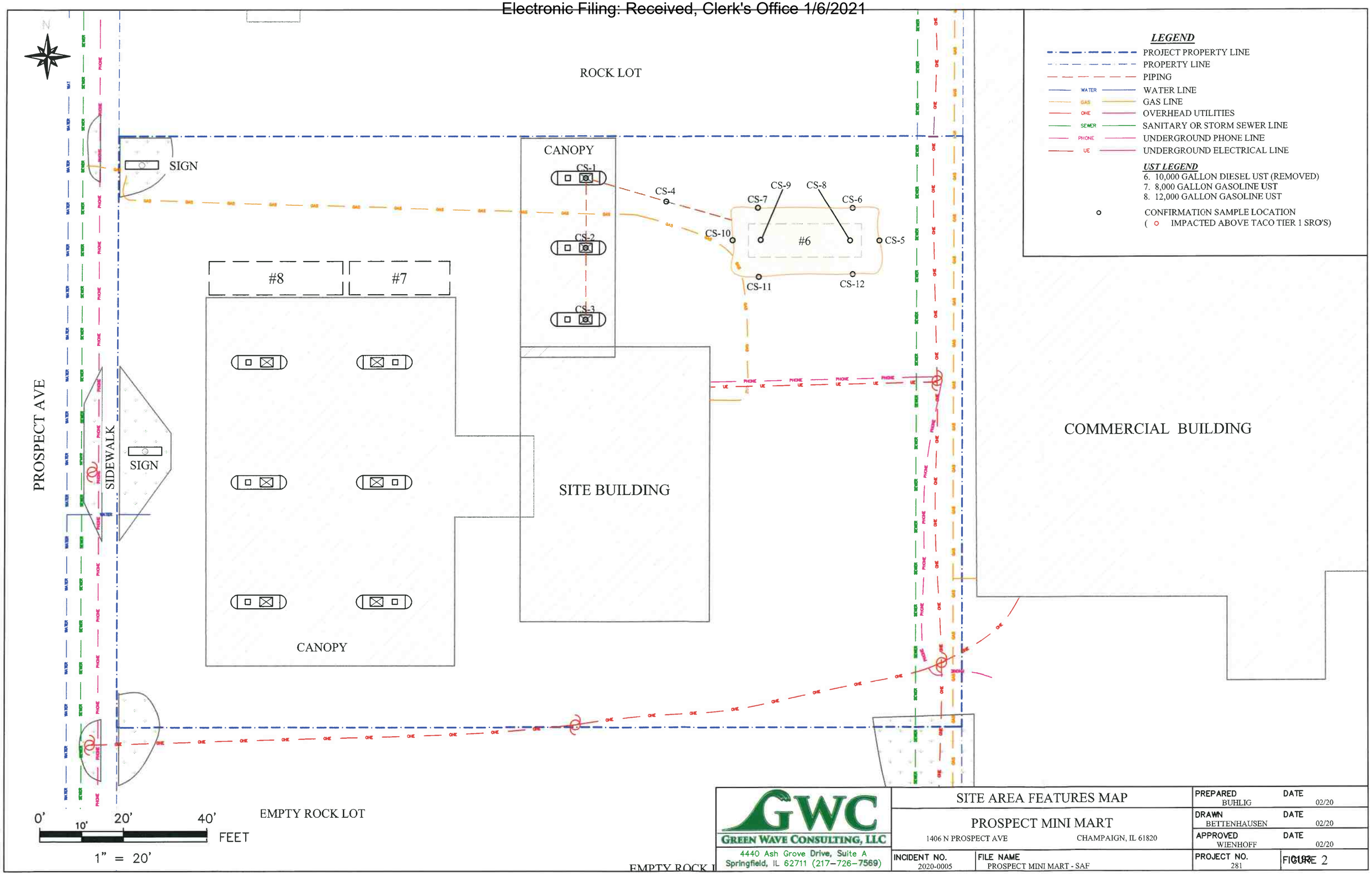
UST Owner or Operator Signature:

A completed IEPA 45-Day Report Form is included in **Attachment 7**.

FIGURES



GWC GREEN WAVE CONSULTING, LLC 4440 ASH GROVE DRIVE, Suite A Springfield, IL 62711 (217-726-7569)	SURROUNDING LAND USE MAP PROSPECT MINI MART 1406 N PROSPECT CHAMPAIGN, IL 61820	PREPARED BUHLIG	DATE 02/20
		DRAWN BETTENHAUSEN	DATE 02/20
		APPROVED WIENHOFF	DATE 02/20
	INCIDENT NO. 2020-0005 / FILE NAME SHREE KUBER - SLUM	PROJECT NO. 281	FIGURE 1



LEGEND

- PROJECT PROPERTY LINE
- PROPERTY LINE
- PIPING
- WATER LINE
- GAS LINE
- OVERHEAD UTILITIES
- SANITARY OR STORM SEWER LINE
- UNDERGROUND PHONE LINE
- UNDERGROUND ELECTRICAL LINE

UST LEGEND

6. 10,000 GALLON DIESEL UST (REMOVED)
7. 8,000 GALLON GASOLINE UST
8. 12,000 GALLON GASOLINE UST

- CONFIRMATION SAMPLE LOCATION
- (○ IMPACTED ABOVE TACO TIER 1 SRO'S)

GWC
GREEN WAVE CONSULTING, LLC
4440 Ash Grove Drive, Suite A
Springfield, IL 62711 (217-726-7569)

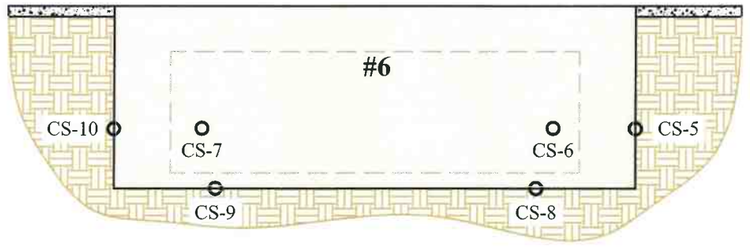
SITE AREA FEATURES MAP

PROSPECT MINI MART
1406 N PROSPECT AVE CHAMPAIGN, IL 61820

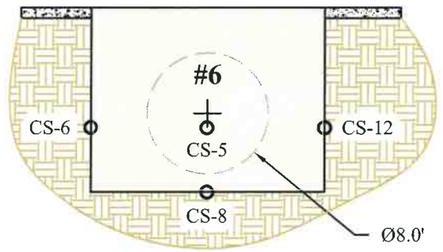
INCIDENT NO. 2020-0005	FILE NAME PROSPECT MINI MART - SAF	PROJECT NO. 281	FIGURE 2

PREPARED BUHLIG	DATE 02/20
DRAWN BETTENHAUSEN	DATE 02/20
APPROVED WIENHOFF	DATE 02/20

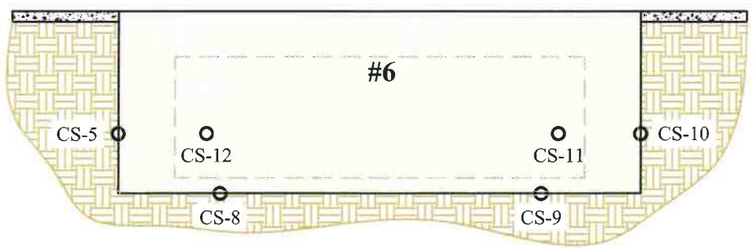
NORTH



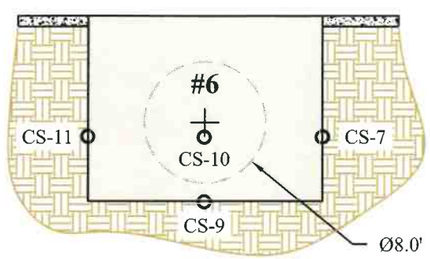
EAST



SOUTH

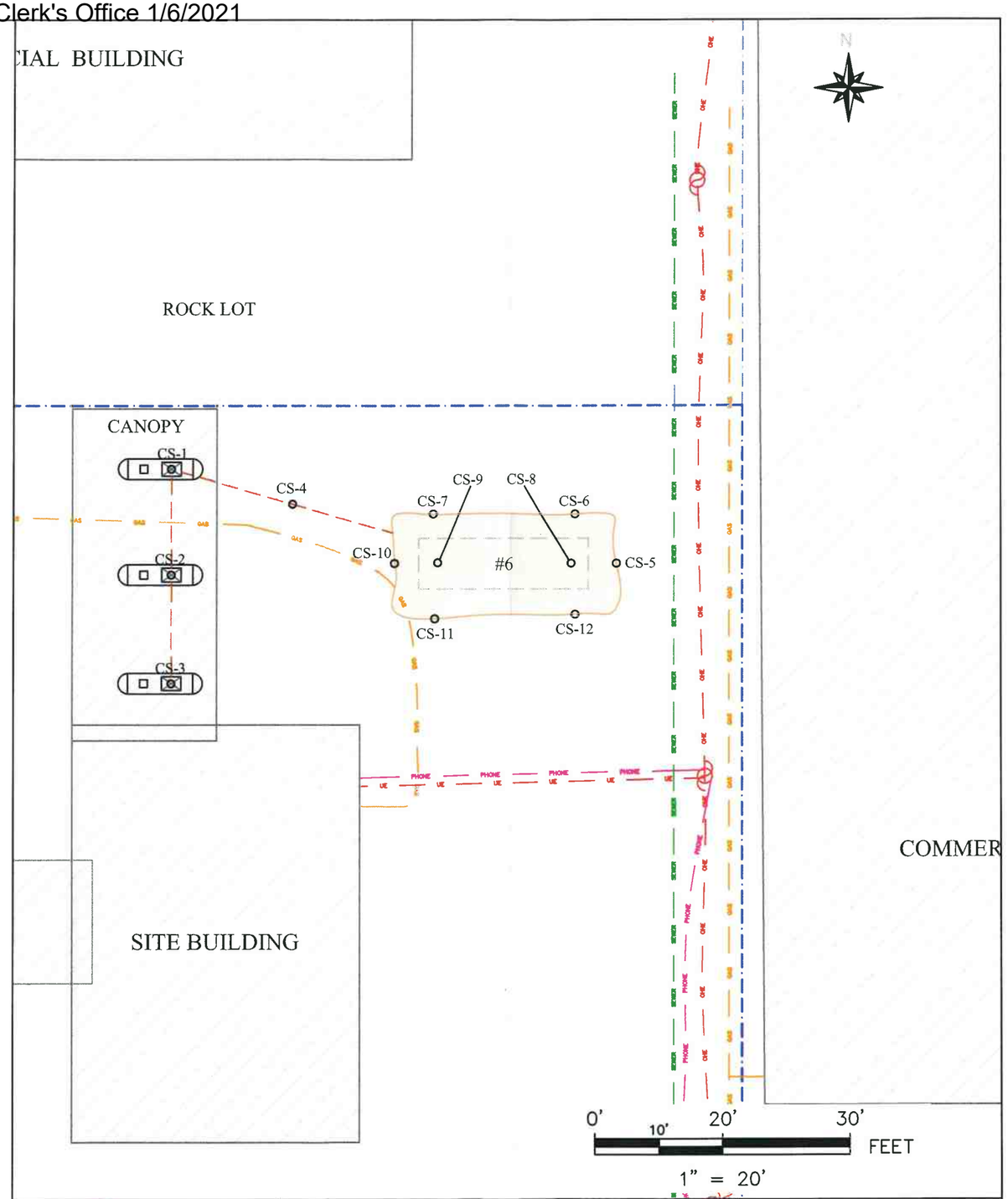


WEST



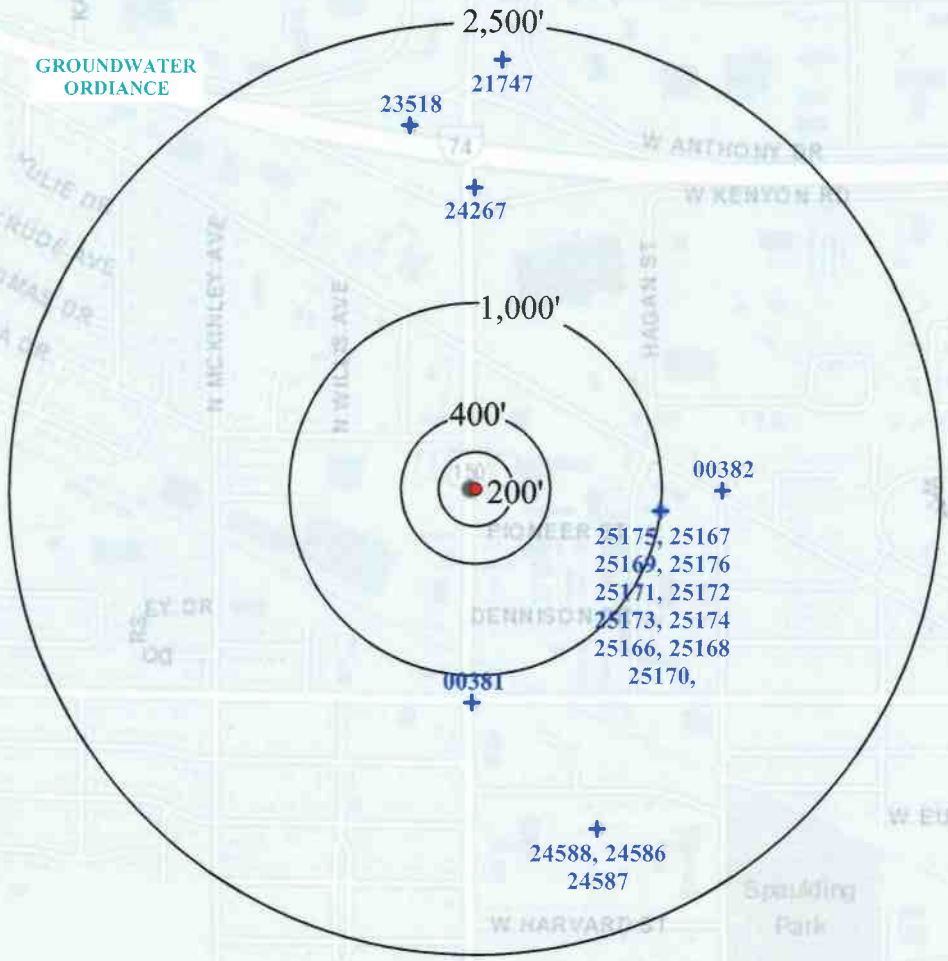
0' 5' 10' 20' FEET

1' = 10'



GWC GREEN WAVE CONSULTING, LLC 4440 Ash Grove Drive, Suite A Springfield, IL 62711 (217–726–7569)	TANK CROSS SECTION MAP PROSPECT MINI MART 1406 N PROSPECT AVE CHAMPAIGN, IL 62820	PREPARED WIENHOFF DATE 02/20 DRAWN BETTENHAUSEN DATE 02/20 APPROVED WIENHOFF DATE 02/20	
	INCIDENT NO. 2020-0005 FILE NAME PROSPECT MINI MART - SAF	PROJECT NO. 281	FIGURE 3

SOURCE: IEPA/USGS SOURCE WATER ASSESSMENT PROGRAM (SWAP) ONLINE DATABASE & ISGS "WATER AND RELATED WELLS IN ILLINOIS" ONLINE DATABASE AND MAP VIEWER



LEGEND

+ ISGS WELL

Key to ISGS Wells within 2,500' of Site

Well ID #	Setback Zone	Approximate Distance to UST Release Area	Depth	Well Status / Owner
ISGS #25175	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25167	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25169	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25176	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25171	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25173	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25174	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25166	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25168	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #25170	N/A	1,000'	15'	Mouit / Wareco Service
ISGS #00381	N/A	1,145'	165'	Water / University of Illinois
ISGS #00382	N/A	1,324'	200'	Water / IL Water Service
ISGS #24267	N/A	1,614'	34'	ENG / FA 39
ISGS #24588	N/A	1,938'	15'	Mouit / Amoco Oil Co.
ISGS #24586	N/A	1,938'	17'	Mouit / Amoco Oil Co.
ISGS #24587	N/A	1,938'	15'	Mouit / Amoco Oil Co.
ISGS #23518	N/A	1,979'	31'	ENG / I-74&Prospect
ISGS #21747	N/A	2,302'	60'	Water / Gray, James

ISGS = Illinois State Geologic Survey
N/A = Not applicable (setback zone does not apply for well type/status)
Non-CWS = Non-Community Water Supply
Note: Wells in grey have been abandoned.
CWS = Community Water Supply
Note: Wells in red have been mismapped.
Note: Information for CWS/ISGS wells compiled from the IEPA Community Water Supply database information.
Note: Owner information and status obtained from ISGS well logs; may not be current owner of property where well is located.

GREEN WAVE CONSULTING, LLC 4440 ASH GROVE DRIVE, Suite A Springfield, IL 62711 (217-726-7569)	WATER WELL SURVEY PROSPECT MINI MART 1406 N PROSPECT CHAMPAIGN, IL 61820	PREPARED BETTENHAUSEN DATE 02/20 DRAWN BETTENHAUSEN DATE 02/20 APPROVED WIENHOFF DATE 02/20	
INCIDENT NO. 2020-0005	FILE NAME PROSPECT MINI MART - WWS	PROJECT NO. 281	FIGURE 4

TABLES

Table I
Summary of Photoionization Detector Screening Results
Shree Kuber, Inc. - 20200005
Champaign, IL 61820

Sample ID	Location	Sample Depth	PID Result
CS-1	Piping	3'	83.5
CS-2	Piping	3'	50.8
CS-3	Piping	3'	49.8
CS-4	Piping	3'	23.8
CS-5	Wall	9'	83.2
CS-6	Wall	9'	182
CS-7	Wall	9'	42.5
CS-8	Floor	13'	1.8
CS-9	Floor	13'	3.6
CS-10	Wall	9'	100
CS-11	Wall	9'	182
CS-12	Wall	9'	3.1
Note: The PID readings were measured in parts-per-million (ppm) meter units			

Table II: Early Action Soil Analytical Results
Shree Kuber, Inc.
Champaign, Illinois
Incident #20200005

Sample Name	TIER 1 Remediation Objectives	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Depth		**3.0**	**3.0**	**3.0**	**3.0**	**9.0**	**9.0**	**9.0**
Sample Date		**1/22/20**	**1/22/20**	**1/22/20**	**1/22/20**	**1/22/20**	**1/22/20**	**1/22/20**
BTEX / MTBE								
Benzene	**0.03**	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**13**	0.066	0.021	0.194	ND	ND	ND	ND
MTBE	**0.32**	ND	ND	ND	ND	ND	ND	ND
Toluene	**12**	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	**5.6**	ND	ND	ND	ND	ND	ND	ND
PNA								
Acenaphthene	**570**	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	**15**	ND	ND	ND	ND	ND	ND	ND
Anthracene	**12000**	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	**0.9**	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	**0.9**	ND	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	**9**	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)Perylene	**2300**	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	**0.09**	ND	ND	ND	ND	ND	ND	ND
Chrysene	**88**	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	**0.09**	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**3100**	ND	ND	ND	ND	ND	ND	ND
Fluorene	**560**	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)Pyrene	**0.9**	ND	ND	ND	ND	ND	ND	ND
Napthalene	**1.8**	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**140**	ND	ND	ND	ND	ND	ND	ND
Pyrene	**2300**	0.219	0.551	1.360	ND	ND	ND	0.265

Notes: All results are presented in mg/kg
Bold /Underlined values indicate exceedance
ND: Below Acceptable Detection Limits
NA: Not Analyzed

0198

Table II: Early Action Soil Analytical Results
Shree Kuber, Inc.
Champaign, Illinois
Incident #20200005

Sample Name	TIER 1 Remediation Objectives	CS-8	CS-9	CS-10	CS-11	CS-12
Depth		**13.0**	**13.0**	**9.0**	**9.0**	**9.0**
Sample Date		**1/22/20**	**1/22/20**	**1/23/20**	**1/23/20**	**1/23/20**
BTEX / MTBE						
Benzene	**0.03**	ND	ND	ND	ND	ND
Ethylbenzene	**13**	ND	ND	ND	ND	ND
MTBE	**0.32**	ND	ND	ND	ND	ND
Toluene	**12**	ND	ND	ND	ND	ND
Total Xylenes	**5.6**	ND	ND	ND	ND	ND
PNA						
Acenaphthene	**570**	ND	ND	ND	ND	ND
Acenaphthylene	**15**	ND	ND	ND	ND	ND
Anthracene	**12000**	ND	ND	ND	ND	ND
Benzo(a)Anthracene	**0.9**	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	**0.9**	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	**9**	ND	ND	ND	ND	ND
Benzo(g,h,I)Perylene	**2300**	ND	ND	ND	ND	ND
Benzo(a)Pyrene	**0.09**	ND	ND	ND	ND	ND
Chrysene	**88**	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	**0.09**	ND	ND	ND	ND	ND
Fluoranthene	**3100**	ND	ND	ND	ND	ND
Fluorene	**560**	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)Pyrene	**0.9**	ND	ND	ND	ND	ND
Napthalene	**1.8**	ND	ND	ND	ND	ND
Phenanthrene	**140**	ND	ND	ND	ND	ND
Pyrene	**2300**	ND	ND	ND	0.195	ND

Notes: All results are presented in mg/kg
Bold /Underlined values indicate exceedance
ND: Below Acceptable Detection Limits
NA: Not Analyzed

0199

ATTACHMENT 1

Office of the Illinois State Fire Marshal
Division of Petroleum and Chemical Safety
1035 Stevenson Drive
Springfield, IL 62703
2177851020

FOR OFFICE USE ONLY
Facility # 4016556
Permit # 00018-2020REM
Request Rec'd 01/06/2020
Amended Date
Approval Date 1/6/2020 DS
Permit Expires 7/7/2020

Permit for REMOVAL of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to remove underground storage tank(s) or piping is hereby granted. Such removal shall not commence until the contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall establish a date certain to perform the UST activity by contacting the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety, at which time the UST activity shall be scheduled. **THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.**

(1) **OWNER OF TANKS** - Corporation, partnership, or other business entity:	(2) **FACILITY** - name and address where tanks are located:
Shree Kuber, Inc. 1406 N. Prospect Champaign, IL 61820 Contact: Vijay Pagel (309) 642-0472	Prospect Mini Mart 1406 N. Prospect Ave. Champaign, IL 61820 Contact: Kishan Abani (217) 398-4930

(3) REMOVAL OF TANKS:

(a) Number and size of tanks being removed: (TK # 6) - 10,000

(b) Description/location of piping being removed:

(c) Product to be stored in each tank: (TK # 6) - Diesel Fuel

(d) Reason of tanks being removed:

(e) If tank(s) is leaking, indicate IEMA incident number: 2020-0005

(f) Date each tank was last used: (TK # 6) - 12/19/2018

(4) The owner must notify this Office when completion of tank removal has occurred, on the Notification for Underground Storage Tank Form. This form can be obtained at www.sfm.illinois.gov or by calling (217)785-1020. After removal is completed, the owner/operator shall perform a site assessment by measuring for the presence of a release where contamination is most likely to be present at the UST site. This is in accordance with the Illinois Administrative Code 176.360 (a) regulations and 40 CFR Part 280.72 (a) Federal Register Requirement.

(5) SPECIAL CONTINGENCIES : remove entire ust system, tank and piping

(6) PERSON, FIRM OR COMPANY PERFORMING WORK:

RCRA, Inc. d/b/a Earth Services
10903 Prestwick Drive
Benton, IL 62812

Contact Person: Josh Appleton
Phone: (618) 218-4958
Contractor Registration # IL002364 Exp. 8/7/2021

Sincerely,

Daniel Starks

cc: Storage Tank Safety Specialist
Division File

ATTACHMENT 2

PHOTOGRAPHIC LOG

PROJECT: Shree Kuber, Inc. – Champaign IL

DATE: January 2020

VIEW: Northeast

PHOTOGRAPH #: 1

DESCRIPTION: View of tankhold during uncovering process

DATE: January 2020

VIEW: Northwest

PHOTOGRAPH #: 2

DESCRIPTION: View of tankhold during uncovering process

PHOTOGRAPHIC LOG

PROJECT: Shree Kuber, Inc. – Champaign IL

DATE: January 2020

VIEW: North

PHOTOGRAPH #: 3

DESCRIPTION: GFL pumping down residual fuel/liquids from UST

DATE: January 2020

VIEW: North

PHOTOGRAPH #: 4

DESCRIPTION: View of UST removed and preparing to be cut/cleaned

PHOTOGRAPHIC LOG

PROJECT: Shree Kuber, Inc. – Champaign IL

DATE: January 2020

VIEW: East

PHOTOGRAPH #: 5

DESCRIPTION: UST opened and prepared to be cut/crushed and properly disposed of.

DATE: January 2020

VIEW: Northwest

PHOTOGRAPH #: 6

DESCRIPTION: View of UST excavation backfilled and capped with CA-6 rock.

ATTACHMENT 3

PDC Laboratories, Inc.

Friday, January 31, 2020

Jeff Wienhoff
Green Wave Consulting, LLC
4440 Ash Grove Drive Suite A
Springfield, IL 62711
TEL: (217) 726-7569
FAX:

RE: Shree Kuber, Inc. - Champaign, IL PDC WO: 0014320

PDC Laboratories, Inc. received 9 sample(s) on 1/24/2020 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Michael Austin
Project Manager

Certifications: NELAP/NELAC - IL #100323

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-1 **Lab ID:** 0014320-01
Collection Date: 1/22/20 10:00 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**76**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00889		mg/kg dry	1	1/28/20 8:38	1/28/20 10:13	SW 8260B	CDM
***Ethylbenzene**	**0.0663**	0.00445		mg/kg dry	1	1/28/20 8:38	1/28/20 10:13	SW 8260B	CDM
*Toluene	U	0.00445		mg/kg dry	1	1/28/20 8:38	1/28/20 10:13	SW 8260B	CDM
*Xylenes- Total	U	0.0133		mg/kg dry	1	1/28/20 8:38	1/28/20 10:13	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.10		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Acenaphthylene	U	0.605		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Anthracene	U	0.605		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0218		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0218		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0218		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0467		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0218		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Chrysene	U	0.0916		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0218		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Fluoranthene	U	0.605		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Fluorene	U	0.128		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0266		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Naphthalene	U	0.605		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
*Phenanthrene	U	0.605		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA
***Pyrene**	**0.219**	0.165		mg/kg dry	1	1/28/20 16:01	1/28/20 21:55	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-2 **Lab ID:** 0014320-02
Collection Date: 1/22/20 10:15 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**79**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00493		mg/kg dry	1	1/30/20 8:15	1/30/20 11:38	SW 8260B	CDM
***Ethylbenzene**	**0.0217**	0.00493		mg/kg dry	1	1/30/20 8:15	1/30/20 11:38	SW 8260B	CDM
*Toluene	U	0.00493		mg/kg dry	1	1/30/20 8:15	1/30/20 11:38	SW 8260B	CDM
*Xylenes- Total	U	0.0148		mg/kg dry	1	1/30/20 8:15	1/30/20 11:38	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.07		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Acenaphthylene	U	0.586		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Anthracene	U	0.586		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0453		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Chrysene	U	0.0888		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Fluoranthene	U	0.586		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Fluorene	U	0.124		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0258		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Naphthalene	U	0.586		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
*Phenanthrene	U	0.586		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA
***Pyrene**	**0.551**	0.160		mg/kg dry	1	1/28/20 16:01	1/28/20 22:26	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-3 **Lab ID:** 0014320-03
Collection Date: 1/22/20 10:30 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**79**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.0233	Mrl	mg/kg dry	25	1/28/20 8:38	1/28/20 11:06	SW 8260B	CDM
***Ethylbenzene**	**0.194**	0.159		mg/kg dry	25	1/28/20 8:38	1/28/20 11:06	SW 8260B	CDM
*Toluene	U	0.159		mg/kg dry	25	1/28/20 8:38	1/28/20 11:06	SW 8260B	CDM
*Xylenes- Total	U	0.477		mg/kg dry	25	1/28/20 8:38	1/28/20 11:06	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.07		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Acenaphthylene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Anthracene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0455		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Chrysene	U	0.0891		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Fluoranthene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Fluorene	U	0.125		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0258		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Naphthalene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
*Phenanthrene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA
***Pyrene**	**1.36**	0.160		mg/kg dry	1	1/28/20 16:01	1/28/20 22:57	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-4 **Lab ID:** 0014320-04
Collection Date: 1/22/20 13:00 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**79**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.0212	Mrl	mg/kg dry	25	1/28/20 8:38	1/28/20 11:32	SW 8260B	CDM
*Ethylbenzene	U	0.145		mg/kg dry	25	1/28/20 8:38	1/28/20 11:32	SW 8260B	CDM
*Toluene	U	0.145		mg/kg dry	25	1/28/20 8:38	1/28/20 11:32	SW 8260B	CDM
*Xylenes- Total	U	0.435		mg/kg dry	25	1/28/20 8:38	1/28/20 11:32	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.07		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Acenaphthylene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Anthracene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0454		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Chrysene	U	0.0891		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0212		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Fluoranthene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Fluorene	U	0.125		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0258		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Naphthalene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Phenanthrene	U	0.588		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA
*Pyrene	U	0.160		mg/kg dry	1	1/28/20 16:01	1/28/20 23:28	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-5 **Lab ID:** 0014320-05
Collection Date: 1/22/20 13:15 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**79**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00499		mg/kg dry	1	1/30/20 8:15	1/30/20 12:06	SW 8260B	CDM
*Ethylbenzene	U	0.00499		mg/kg dry	1	1/30/20 8:15	1/30/20 12:06	SW 8260B	CDM
*Toluene	U	0.00499		mg/kg dry	1	1/30/20 8:15	1/30/20 12:06	SW 8260B	CDM
*Xylenes- Total	U	0.0150		mg/kg dry	1	1/30/20 8:15	1/30/20 12:06	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.06		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Acenaphthylene	U	0.584		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Anthracene	U	0.584		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0451		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Chrysene	U	0.0885		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0211		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Fluoranthene	U	0.584		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Fluorene	U	0.124		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0257		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Naphthalene	U	0.584		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Phenanthrene	U	0.584		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA
*Pyrene	U	0.159		mg/kg dry	1	1/28/20 16:01	1/28/20 23:59	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-6 **Lab ID:** 0014320-06
Collection Date: 1/22/20 13:30 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	77	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00488		mg/kg dry	1	1/28/20 8:38	1/28/20 12:24	SW 8260B	CDM
*Ethylbenzene	U	0.00488		mg/kg dry	1	1/28/20 8:38	1/28/20 12:24	SW 8260B	CDM
*Toluene	U	0.00488		mg/kg dry	1	1/28/20 8:38	1/28/20 12:24	SW 8260B	CDM
*Xylenes- Total	U	0.0146		mg/kg dry	1	1/28/20 8:38	1/28/20 12:24	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.09		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Acenaphthylene	U	0.599		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Anthracene	U	0.599		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0216		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0216		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0216		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0463		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0216		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Chrysene	U	0.0908		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0216		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Fluoranthene	U	0.599		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Fluorene	U	0.127		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0263		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Naphthalene	U	0.599		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Phenanthrene	U	0.599		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA
*Pyrene	U	0.163		mg/kg dry	1	1/28/20 16:01	1/29/20 0:30	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-7 **Lab ID:** 0014320-07
Collection Date: 1/22/20 13:45 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**77**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.0204	Mrl	mg/kg dry	25	1/28/20 8:38	1/28/20 12:51	SW 8260B	CDM
*Ethylbenzene	U	0.139		mg/kg dry	25	1/28/20 8:38	1/28/20 12:51	SW 8260B	CDM
*Toluene	U	0.139		mg/kg dry	25	1/28/20 8:38	1/28/20 12:51	SW 8260B	CDM
*Xylenes- Total	U	0.418		mg/kg dry	25	1/28/20 8:38	1/28/20 12:51	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.09		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Acenaphthylene	U	0.602		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Anthracene	U	0.602		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0217		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0217		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0217		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0465		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0217		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Chrysene	U	0.0912		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0217		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Fluoranthene	U	0.602		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Fluorene	U	0.128		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0265		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Naphthalene	U	0.602		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
*Phenanthrene	U	0.602		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA
***Pyrene**	**0.265**	0.164		mg/kg dry	1	1/28/20 16:01	1/29/20 1:01	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-8 **Lab ID:** 0014320-08
Collection Date: 1/22/20 14:00 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**88**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00411		mg/kg dry	1	1/28/20 8:38	1/28/20 13:17	SW 8260B	CDM
*Ethylbenzene	U	0.00411		mg/kg dry	1	1/28/20 8:38	1/28/20 13:17	SW 8260B	CDM
*Toluene	U	0.00411		mg/kg dry	1	1/28/20 8:38	1/28/20 13:17	SW 8260B	CDM
*Xylenes- Total	U	0.0123		mg/kg dry	1	1/28/20 8:38	1/28/20 13:17	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	0.899		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Acenaphthylene	U	0.494		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Anthracene	U	0.494		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0178		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0178		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0178		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0382		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0178		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Chrysene	U	0.0749		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0178		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Fluoranthene	U	0.494		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Fluorene	U	0.105		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0217		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Naphthalene	U	0.494		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Phenanthrene	U	0.494		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA
*Pyrene	U	0.135		mg/kg dry	1	1/28/20 16:01	1/28/20 17:06	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320
Client Sample ID: CS-9 **Lab ID:** 0014320-09
Collection Date: 1/22/20 14:30 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**87**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.0149	Mrl	mg/kg dry	25	1/28/20 8:38	1/28/20 13:43	SW 8260B	CDM
*Ethylbenzene	U	0.102		mg/kg dry	25	1/28/20 8:38	1/28/20 13:43	SW 8260B	CDM
*Toluene	U	0.102		mg/kg dry	25	1/28/20 8:38	1/28/20 13:43	SW 8260B	CDM
*Xylenes- Total	U	0.306		mg/kg dry	25	1/28/20 8:38	1/28/20 13:43	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	0.971		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Acenaphthylene	U	0.534		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Anthracene	U	0.534		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0193		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0193		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0193		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0413		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0193		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Chrysene	U	0.0809		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0193		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Fluoranthene	U	0.534		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Fluorene	U	0.113		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0235		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Naphthalene	U	0.534		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Phenanthrene	U	0.534		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA
*Pyrene	U	0.146		mg/kg dry	1	1/28/20 16:01	1/28/20 17:39	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 1/31/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber, Inc. - Champaign, IL **Lab Order:** 0014320

Notes and Definitions

Q5	Matrix interference present in sample. Result confirmed by reanalysis.
Mrl	Reporting limit set between LOQ and MDL
*	NELAC certified compound.
U	Analyte not detected (i.e. less than RL or MDL).

PDC Laboratories, Inc.
1210 Capital Airport Drive
Springfield, IL 62707

Chain of Custody Record

Phone (217) 753-1148
Fax (217) 753-1152

CC14320

Client	Green Wave Consulting, LLC
Address	4440 Ash Grove Drive, Suite A
City, State, Zip Code	Springfield, IL 62711
Phone / Facsimile	217-726-7569
Project Name / Number	Shree Kuber, Inc
Project Location	Champaign IL
P.O. # or Invoice To	20200005
Contact Person	Jeff Wienhoff

Sample Description	Sampling Date	Sampling Time	Matrix Code	Preserv Code	No. of Containers	Sample Type Comp	Sample Type Grab	BTEX	PNA								Sampler Comments
CS-1	1/22/20	1000	S	5	4		X	X	X								
CS-2	"	1015	"	"	"		"	"	"								
CS-3	"	1030	"	"	"		"	"	"								
CS-4	"	1300	"	"	"		"	"	"								
CS-5	"	1315	"	"	"		"	"	"								
CS-6	"	1330	"	"	"		"	"	"								
CS-7	"	1345	"	"	"		"	"	"								
CS-8	"	1400	"	"	"		"	"	"								
CS-9	"	1430	"	"	"		"	"	"								

Analysis and/or Method Requested

Reporting
TACO: Resid / Ind/Comm
CALM: A / B / C
RISC: Resid / Indust

Matrix Code	A - Aqueous	DW - Drinking Water	GW - Ground Water	NA - Non-Aqueous Liquid	S - Solid	O - Oil	X - Other (Specify)
Preserv Code	0 - None	1 - HCl	2 - H2SO4	3 - HNO3	4 - NaOH	5 - MeOH	6 - Other (Specify)

Relinquished By	Date	Time	Received By	Date	Time	Method of Shipment
[signature]	1/22/20	17:00	[signature]	1/22/20	17:00	
[signature]	1/24/20	9:00	[signature]	1.24.20	900	

Special Instructions

Turnaround Time: Standard ■ Rush ☐
Date Required

QC Level: ■ 3 ☐ 3 ☐ 4

On Ice? Yes / No

Temperature (°C): 3.4

PAS COC Rev. 3

Copies: White - Client / Yellow - PAS, Inc. / Pink - Sampler

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) 20200005 IEPA LPC# (10-digit): 0190105433

Site Name: Shree Kuber

Site Address (Not a P.O. Box) 1406 N Prospect

City: Champaign County: Champaign ZIP Code: 61820

Leaking UST Technical File

B. Sample Collector

I certify that:

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

C. Laboratory Representative

I certify that: WO# 001432D

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

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. MLA (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). MLA (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 David Nowack
Title Senior Technician
Company Green Wave Consulting, LLC
Address 4440 Ash Grove Drive, Suite A
City Springfield
State Illinois
Zip Code 62711
Phone 217-726-7569
Signature David Nowack
Date 1/22/20

Laboratory Representative

Name Michael L. Austin
Title Client Services Coordinator
Company PDC Laboratories, Inc.
Address 1210 Capitol Airport Drive
City Springfield
State Illinois
Zip Code 62707
Phone 217-753-1148
Signature Michael L. Austin
Date 1/31/20

PDC Laboratories, Inc.

Tuesday, February 11, 2020

Jeff Wienhoff
Green Wave Consulting, LLC
4440 Ash Grove Drive Suite A
Springfield, IL 62711
TEL: (217) 726-7569
FAX:

RE: Shree Kuber - Champaign, IL PDC WO: 0014315

PDC Laboratories, Inc. received 3 sample(s) on 1/24/2020 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Michael Austin
Project Manager

Certifications: NELAP/NELAC - IL #100323

PDC Laboratories, Inc. **Date:** 2/11/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber - Champaign, IL **Lab Order:** 0014315
Client Sample ID: CS-10 **Lab ID:** 0014315-01
Collection Date: 1/23/20 10:45 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**78**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00433		mg/kg dry	1	2/4/20 7:10	2/4/20 21:56	SW 8260B	CDM
*Ethylbenzene	U	0.00433		mg/kg dry	1	2/4/20 7:10	2/4/20 21:56	SW 8260B	CDM
*Toluene	U	0.00433		mg/kg dry	1	2/4/20 7:10	2/4/20 21:56	SW 8260B	CDM
*Xylenes- Total	U	0.0130		mg/kg dry	1	2/4/20 7:10	2/4/20 21:56	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.08		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Acenaphthylene	U	0.592		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Anthracene	U	0.592		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0214		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0214		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0214		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0457		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0214		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Chrysene	U	0.0897		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0214		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Fluoranthene	U	0.592		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Fluorene	U	0.126		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0260		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Naphthalene	U	0.592		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Phenanthrene	U	0.592		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA
*Pyrene	U	0.161		mg/kg dry	1	1/24/20 15:41	1/24/20 18:59	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 2/11/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber - Champaign, IL **Lab Order:** 0014315
Client Sample ID: CS-11 **Lab ID:** 0014315-02
Collection Date: 1/23/20 14:15 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**77**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00500		mg/kg dry	1	1/28/20 8:38	1/28/20 14:09	SW 8260B	CDM
*Ethylbenzene	U	0.00500		mg/kg dry	1	1/28/20 8:38	1/28/20 14:09	SW 8260B	CDM
*Toluene	U	0.00500		mg/kg dry	1	1/28/20 8:38	1/28/20 14:09	SW 8260B	CDM
*Xylenes- Total	U	0.0150		mg/kg dry	1	1/28/20 8:38	1/28/20 14:09	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.03		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Acenaphthylene	U	0.565		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Anthracene	U	0.565		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0204		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0204		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0204		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0436		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0204		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Chrysene	U	0.0856		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0204		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Fluoranthene	U	0.565		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Fluorene	U	0.120		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0248		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Naphthalene	U	0.565		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
*Phenanthrene	U	0.565		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA
***Pyrene**	**0.195**	0.154		mg/kg dry	1	1/24/20 15:41	1/24/20 19:32	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 2/11/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber - Champaign, IL **Lab Order:** 0014315
Client Sample ID: CS-12 **Lab ID:** 0014315-03
Collection Date: 1/23/20 14:45 **Matrix:** Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
General Chemistry									
Solids - total solids (TS)	**79**	0.050		%	1	1/24/20 12:52	1/27/20 9:51	SM 2540G	CLH
Volatile Organics									
*Benzene	U	0.00491		mg/kg dry	1	1/28/20 8:38	1/28/20 14:37	SW 8260B	CDM
*Ethylbenzene	U	0.00491		mg/kg dry	1	1/28/20 8:38	1/28/20 14:37	SW 8260B	CDM
*Toluene	U	0.00491		mg/kg dry	1	1/28/20 8:38	1/28/20 14:37	SW 8260B	CDM
*Xylenes- Total	U	0.0147		mg/kg dry	1	1/28/20 8:38	1/28/20 14:37	SW 8260B	CDM
Semivolatile Organics - PNA									
*Acenaphthene	U	1.06		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Acenaphthylene	U	0.583		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Anthracene	U	0.583		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Benzo(a)anthracene	U	0.0210		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Benzo(b)fluoranthene	U	0.0210		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Benzo(k)fluoranthene	U	0.0210		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Benzo(g,h,i)perylene	U	0.0450		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Benzo(a)pyrene	U	0.0210		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Chrysene	U	0.0883		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Dibenzo(a,h)anthracene	U	0.0210		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Fluoranthene	U	0.583		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Fluorene	U	0.124		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	U	0.0256		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Naphthalene	U	0.583		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Phenanthrene	U	0.583		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA
*Pyrene	U	0.159		mg/kg dry	1	1/28/20 16:01	1/28/20 20:54	SW 8270C	JKA

PDC Laboratories, Inc. **Date:** 2/11/2020

LABORATORY RESULTS

Client: Green Wave Consulting, LLC
Project: Shree Kuber - Champaign, IL **Lab Order:** 0014315

Notes and Definitions

R	Matrix Spike/Matrix Spike Duplicate Failed %Relative Percent Difference criterion.
Q5	Matrix interference present in sample. Result confirmed by reanalysis.
Q2	Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Q1	Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Mrl	Reporting limit set between LOQ and MDL
*	NELAC certified compound.
U	Analyte not detected (i.e. less than RL or MDL).

PDC Laboratories, Inc.
1210 Capital Airport Drive
Springfield, IL 62707

Phone (217) 753-1148
Fax (217) 753-1152

Chain of Custody Record

0014315

Client	Green Wave Consulting, LLC
Address	4440 Ash Grove Drive, Suite A
City, State, Zip Code	Springfield, IL 62711
Phone / Facsimile	217-726-7569
Project Name / Number	Shree Kutz
Project Location	Champaign, IL
P.O. # or Invoice To	2220 1005
Contact Person	Jeff Wickhoff

Sample Description	Sampling Date	Sampling Time	Matrix Code	Preserv Code	No. of Containers	Sample Type Comp	Sample Type Grab	BETT	PNA								Sampler Comments
CS-10	1/23/20	10 45	S	5	4		X	X	X								
CS-11	↓	2 15	S	5	4		X	X	X								
CS-12	↓	2 45	S	5	4		X	X	X								

Reporting: TACO ☐ Resid ☐ Ind/Comm; CALM ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F; RISC ☐ Resid ☐ Indust

Matrix Code: A - Aqueous; DW - Drinking Water; GW - Ground Water; NA - Non Aqueous Liquid; S - Solid; O - Oil; X - Other (Specify)
Preserv Code: 0 - None; 1 - HCl; 2 - H2SO4; 3 - HNO3; 4 - NaOH; 5 - 5035 Kit; X - Other (Specify)

Relinquished By	Date	Time	Received By	Date	Time	Method of Shipment
[signature]	1/24/20	9 00 A	[signature]	1-24-20	9 (?)	

Special Instructions:

Turnaround Time: Standard ■ Rush ☐ Date Required

QC Level: 1 ■ 2 ☐ 3 ☐ 4 ☐

On wet ice? (Yes) No

Temperature (°C): 3.4

Copies: White - Client / Yellow - PAS Inc / Pink - Sampler

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): 20200005 IEPA LPC# (10-digit): 0190105433

Site Name: Shree Kuber

Site Address (Not a P.O. Box): 1406 N Prospect

City: Champaign County: Champaign ZIP Code: 61820

Leaking UST Technical File

B. Sample Collector

I certify that:

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

C. Laboratory Representative

I certify that: WO# 0014315

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

6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses. MLA (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). MLA (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 Jeff Wright
Title Sr. PG
Company Green Wave Consulting, LLC
Address 4440 Ash Grove Drive, Suite A
City Springfield
State Illinois
Zip Code 62711
Phone 217-726-7569
Signature
Date 1/23/20

Laboratory Representative

Name Michael L. Austin
Title Client Services Coordinator
Company PDC Laboratories, Inc.
Address 1210 Capitol Airport Drive
City Springfield
State Illinois
Zip Code 62707
Phone 217-753-1148
Signature
Date 1/31/20

ATTACHMENT 4

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
		800-424-9300	021310206 JJK

GENERATOR

5. Generator's Name and Mailing Address: Shell, 1000 W. Prospect, Champaign, IL

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: GFL ENVIRONMENTAL SERVICES USA INC dba FUTURE ENVIRONMENTAL — U.S. EPA ID Number: ILD984831396

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: WATER INTEGRATED TREATMENT SYSTEMS (WIT), 14753 GREENWOOD RD, DOLTON, IL 60419 — U.S. EPA ID Number: ILD043914209

Facility's Phone: 708-880-0400

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-HAZARDOUS LIQUID WASTE, NON-REGULATED BY D.O.T	1	TT	3000	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year: 0230

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: [signature] 174 KN

CUSTOMER: [signature] # 45083

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
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Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: Robert C Barnhum

173

CUSTOMER: Mike Bt

KN

445072

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER:

Keith Adams

KW

CUSTOMER:

171

445023

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER:

#174

KN

#445055

CUSTOMER:

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER:

Keith Adams #711 KW

CUSTOMER:

Mike Britt # 2145048

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: Robert C Boarhe #173

KN

CUSTOMER: [signature]

45045

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: Robert C Boonheim 173

CUSTOMER: Mike Botts KN

445110

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: Keith Adams #1731

KN

CUSTOMER: [signature]

44512

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: [signature] 174

CUSTOMER: [signature]

KN
445125

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: Robert C Bonheim 173

CUSTOMER:

TBH
BH46149

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-24-20.

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: Robert C Boonker 171

CUSTOMER: [signature]

KD #445174

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-24-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER:

Keith Adams # 173

KN

CUSTOMER:

Mike Latke

145184

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-23-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: Keith Adams

TB

CUSTOMER: Mike Botts

44562

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

24 Jan 20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER:

Burnett, Travis # 176

CUSTOMER:

KN
445-18

Shipping Instructions for Non-Special Wastes: A Bill of Lading Form or similar shipping paper must be provided with each load. The names of ALL non-special wastes, as identified on the Non-Special Certification(s), contained within the load must be noted on the Bill of Lading or other shipping paper. When scheduling the load for pickup, give the dispatcher the waste name(s) and note that it is a non-special waste.

BILL OF LADING

FROM (Generator Name & Address)

Shree Kuber
1206 N. Prospect Ave
Champaign, IL 61820

Contact: Josh Appleton
PH: (618) 218-4958

TO (Disposal Facility)

Clinton Landfill No. 3
9550 Heritage Road
Clinton, IL 61727
Phone: (217) 935-8028
Fax: (217) 935-5602

NON-SPECIAL WASTE NAME(S)

NSW – Diesel Contaminated Soil
Permit – 06-1144

SHIP DATE

1-24-20

TRANSPORTER:

Earth Services 618.218.4958

TOTAL QUANTITY:

DRIVER: [signature] 174

CUSTOMER: [signature]

445175

ATTACHMENT 5

 ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
gravel	0	2
silt/clay	2	6
till	6	15
Total Depth		**15**

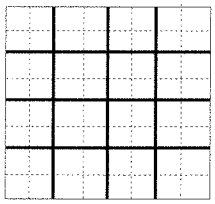
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 6' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY Advanced Environmental
FARM Wareco Service Inc.
DATE DRILLED July 25, 1997 **NO.** MW-11
ELEVATION 0 **COUNTY NO.** 25175
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY **Champaign** **API** **120192517500** **1 - 19N - 8E**



 ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	3
silt/clay	3	8
sand/clay	8	13
clay	13	15
Total Depth		**15**

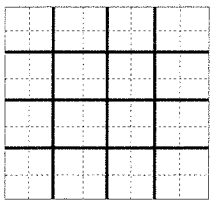
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 7' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY AEOC
FARM Wareco Service Inc.
DATE DRILLED December 19, 1996 **NO.** MW-2
ELEVATION 0 **COUNTY NO.** 25167
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY Champaign **API 120192516700** **1 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	3
silt/clay	3	8
sand	8	9
silt	9	12
till	12	15
Total Depth		**15**

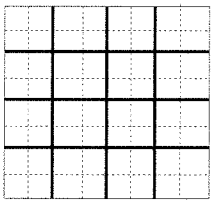
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 5' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY AEOC
FARM Wareco Service Inc.
DATE DRILLED January 7, 1997 **NO.** MW-4
ELEVATION 0 **COUNTY NO.** 25169
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY **Champaign** **API** **120192516900** **1 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	3
silt/clay	3	15
Total Depth		**15**

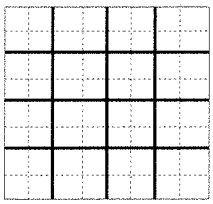
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 6' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY Advanced Environmental
FARM Wareco Service Inc.
DATE DRILLED July 25, 1997 **NO.** MW-12
ELEVATION 0 **COUNTY NO.** 25176
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY **Champaign** **API** **120192517600** **1 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	2
silt/clay	2	8
till	8	15
Total Depth		**15**

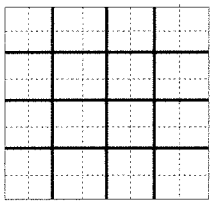
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 5' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY AEOC
FARM Wareco Service Inc.
DATE DRILLED January 7, 1997 **NO.** MW-7
ELEVATION 0 **COUNTY NO.** 25171
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY **Champaign** **API** **120192517100** **1 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	2
clay	2	3
sand/gravel	3	11
till	11	12
sand	12	15
Total Depth		**15**

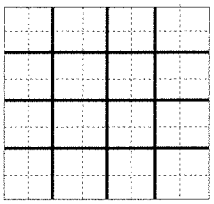
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 7' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY Advanced Environmental
FARM Wareco Service Inc.
DATE DRILLED July 25, 1997 **NO.** MW-8
ELEVATION 0 **COUNTY NO.** 25172
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY Champaign **API 120192517200** **1 - 19N - 8E**



 ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	3
silt/clay	3	11
till	11	15
Total Depth		**15**

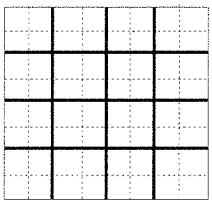
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 7' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY Advanced Environmental
FARM Wareco Service Inc.
DATE DRILLED July 25, 1997 **NO.** MW-9
ELEVATION 0 **COUNTY NO.** 25173
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY **Champaign** **API** **120192517300** **1 - 19N - 8E**



 ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	2
silt/clay	2	4
sand	4	11
silt/clay	11	15
Total Depth		**15**

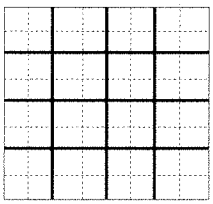
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 6' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY AEOC
FARM Wareco Service Inc.
DATE DRILLED July 25, 1997 **NO.** MW-10
ELEVATION 0 **COUNTY NO.** 25174
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY Champaign **API 120192517400** **1 - 19N - 8E**



 ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	3
silt/clay	3	20
Total Depth		**20**

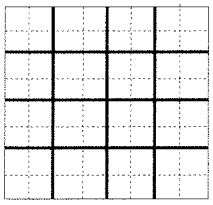
Casing: 2" PVC from 0' to 10'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 5' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY AEOC
FARM Wareco Service Inc.
DATE DRILLED December 19, 1996 **NO.** MW-1
ELEVATION 0 **COUNTY NO.** 25166
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY Champaign **API 120192516600** **1 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	5
silt/clay	5	15
Total Depth		**15**

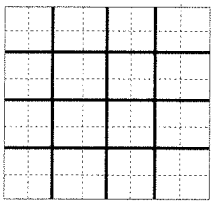
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 5' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY AEOC
FARM Wareco Service Inc.
DATE DRILLED December 19, 1996 **NO.** MW-3
ELEVATION 0 **COUNTY NO.** 25168
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY **Champaign** **API** **120192516800** **1 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
soil	0	2
sand	2	13
sand & gravel	13	15
Total Depth		**15**

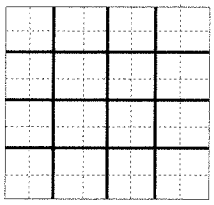
Casing: 2" PVC from 0' to 5'
Screen: 10' of 2" diameter .01 slot
Grout: BENTONITE from 0 to 0.

Static level 6' below casing top which is 0' above GL

Owner Address: ,
Address of well: 712 Bloomington Rd.
Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY AEOC
FARM Wareco Service Inc.
DATE DRILLED January 7, 1997 **NO.** MW-5
ELEVATION 0 **COUNTY NO.** 25170
LOCATION NE SW SW
LATITUDE 40.129896 **LONGITUDE** -88.254414
COUNTY **Champaign** **API** **120192517000** **1 - 19N - 8E**



 ILLINOIS STATE GEOLOGICAL SURVEY

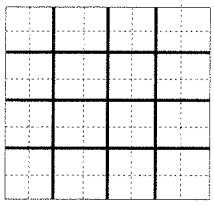
Water Well	Top	Bottom
S.S. #18533	0	0
soil, dark brown, yellow, non-calcareous	0	5
till, yl-bf, silty some pebbles, calc	5	15
till, gray-brown, gravelly, sandy, calc	15	45
gvl & s, slightly dirty, med-crs, calc	45	50
till, sty & cly with sand & gvl, calc	50	135
till, gravelly, buff & gray, calcareous	135	160
till, silty with sand and gravel, calc	160	170
gvl & s, slightly dirty, med-crs, calc	170	180
till, gravelly, medium-coarse, calc	180	185
gravel, slightly dirty, calcareous	185	190
till, sandy, gry-bf, some pebbles, calc	190	200

Interpretation by: **J.W. Foster on 01-JAN-48**
60' south-east of Statin 90+60 of 20" Transmission Main, in berm North side of bloomington Rd.

Pleistocene System - Wisconsin. Soil, dark brown, yellow, non-calcareous	0	5
till, yellow-buff, silty, some pebbles, calcareous	5	15
till, gray-brown, gravelly, sandy, calcareous	15	45
gravel and sand, slightly dirty, medium-coarse, calcareous	45	50
till, silty and clayey with sand and gravel, calcareous	50	135
Illinoian - till, gravelly, buff and gray, calcareous	135	160
till, silty with sand and gravel, calcareous	160	170
gravel and sand, slightly dirty, medium-coarse,		

Permit Date: **Permit #:**

COMPANY Hayes & Sims Drlg
FARM Ill. Water Service TH
DATE DRILLED January 1, 1948 **NO.** 31-48
ELEVATION 747GL **COUNTY NO.** 00382
LOCATION 1100'S line, 1300'W line of section
LATITUDE 40.130188 **LONGITUDE** -88.253241
COUNTY **Champaign** **API** **120190038200** **1 - 19N - 8E**



calcareous	170	180
till, gravelly, medium-coarse, calcareous	180	185
gravel, slightly dirty, calcareous	185	190
till, sandy, gray-buff, some pebbles, calcareous	190	200
Wisconsinan	5	135
Illinoian	135	200
Total Depth		**200**

Driller's Log filed
Survey Sample Study filed
Sample set # 18533 (' - 200') Received: January 1, 1948
Owner Address: ,

Hayes & Sims Drlg Ill. Water Service 1 31-48
COUNTY Champaign **API 120190038200** **1 - 19N - 8E**

ILLINOIS STATE GEOLOGICAL SURVEY

Water Well	Top	Bottom
S.S. #17736	0	0
samples to approx. 100' missing	0	100
gravel, coarse, slightly dirty, calc	100	106
gravel, coarse, clean, calc	106	114
s & gravel, sand med to crs, cln, calc	114	125
s, med-crs, cln, some gvl, ptly ox, calc	125	130
s,med,wl srtd,cln,some gvl,ptly ox,calc	130	135
s&gvl,s ylbf,med/crs,cln,ptly ox,calc	135	145
gravel, granule, extremely coarse, clean	145	147
gravel and sand, coarse, clean, calc	147	154
gravel, granule, extremely coarse, clean	154	156
gravel, clean, some coarse sand, calc	156	159
missing	159	160
s&gvl,s f/crs,gvl,crs,ox,ptly dty,calc	160	165
Interpretation by: J.W. Foster on 01-JAN-49		
Pleistocene System - Samples to approximately 100' missing. Gravel, coarse, slightly dirty, calcareous	0	106
gravel, coarse, clean, calcareous	106	114
sand and gravel, sand medium to coarse, clean, calcareous	114	125
sand, medium-coarse, clean, some gravel, partly oxidized, calcareous	125	130
same, medium, well-sorted	130	135
sand and gravel, sand yellow-buff, medium-coarse, clean, partly oxidized, calcareous	135	145
gravel, granule, extremely coarse, clean	145	147

Permit Date: **Permit #:**

COMPANY Layne Western Co., Inc.

FARM University of Illinois

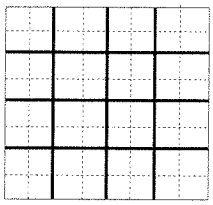
DATE DRILLED January 1, 1948 **NO.** 10

ELEVATION 745TM **COUNTY NO.** 00381

LOCATION 0'N 0'E SW/c

LATITUDE 40.127151 **LONGITUDE** -88.257919

COUNTY Champaign **API 120190038100** **1 - 19N - 8E**



gravel and sand, coarse, clean, calcareous	147	154
gravel, granule, extremely coarse, clean	154	156
gravel, clean, some coarse sand, calcareous	156	159
missing	159	160
sand and gravel, sand fine to coarse, gravel, coarse, oxidized, partly dirty, calcareous	160	165
Total Depth		**165**

Remarks: see logbook for detailed sample study

Survey Sample Study filed

Sample set # 17736 (106' - 160') Received: January 1, 1948

Owner Address: ,

ILLINOIS STATE GEOLOGICAL SURVEY

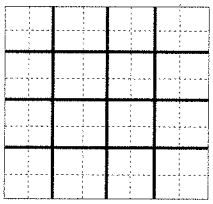
Monitoring	Top	Bottom
brown clayey silt	0	9
brown sand & pebbles	9	11
brown clayey silt	11	15
Total Depth		**15**

Casing: 2" PVC SOLID RISER from 0' to 5'
2" PVC SCREEN from 5' to 15'
Screen: 10' of 2" diameter 10 slot
Grout: CEMENT from 1 to 2.
Grout: BENTONITE from 2 to 4.
Static level 9' below casing top which is 0' above GL

Owner Address: 601 N. Neil Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY United Geoscience
FARM Amoco Oil Co.
DATE DRILLED March 21, 1994 **NO.** MW-8
ELEVATION 0 **COUNTY NO.** 24588
LOCATION NW NW
LATITUDE 40.125333 **LONGITUDE** -88.255567
COUNTY **Champaign** **API** **120192458800** **12 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Monitoring	Top	Bottom
brown clayey silt	0	17
Total Depth		**17**

Casing: 2" PVC SOLID RISER from 0' to 7'
2" PVC SCREEN from 7' to 17'

Screen: 10' of 2" diameter 10 slot

Grout: CEMENT from 1 to 2.

Grout: BENTONITE from 2 to 5.

Static level 12' below casing top which is 0' above GL

Owner Address: 601 N. Neil Champaign, IL

Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY United Geoscience

FARM Amoco Oil Co.

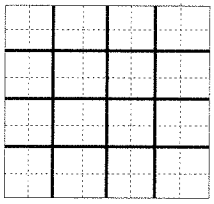
DATE DRILLED March 22, 1994 **NO.** MW-6

ELEVATION 0 **COUNTY NO.** 24586

LOCATION NW NW

LATITUDE 40.125333 **LONGITUDE** -88.255567

COUNTY Champaign **API 120192458600** **12 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

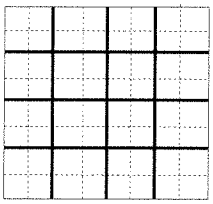
Monitoring	Top	Bottom
brown clayey silt & sand	0	6
brown sand	6	8
brown clayey silt	8	15
Total Depth		**15**

Casing: 2" PVC SOLID RISER from 0' to 5'
2" PVC SCREEN from 5' to 15'
Screen: 10' of 2" diameter 10 slot
Grout: CEMENT from 1 to 2.
Grout: BENTONITE from 2 to 4.
Static level 9' below casing top which is 0' above GL

Owner Address: 601 N. Neil Champaign, IL
Location source: Location from the driller

Permit Date: **Permit #:** none

COMPANY United Geoscience
FARM Amoco Oil Co.
DATE DRILLED March 21, 1994 **NO.** MW-7
ELEVATION 0 **COUNTY NO.** 24587
LOCATION NW NW
LATITUDE 40.125333 **LONGITUDE** -88.255567
COUNTY **Champaign** **API** **120192458700** **12 - 19N - 8E**



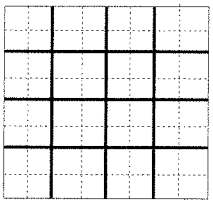
ILLINOIS STATE GEOLOGICAL SURVEY

Engineering Test	Top	Bottom
very stiff mottled yl & gry silty clay	0	6
very stiff mottled yl & gry clay till	6	10
hard gray stoney clay till	10	34
very stiff mottled yellow and gray silty clay	0	6.2
very stiff mottled yellow and gray clay till	6.2	9.7
hard gray stoney clay till	9.7	33.7
Total Depth		**34**

Owner Address: ,
Address of well: Prospect Ave. bridge over FA 39

Permit Date: **Permit #:**

COMPANY IL Division of Highways
FARM FA 39
DATE DRILLED January 1, 1955 **NO.** 1
ELEVATION 0 **COUNTY NO.** 24267
LOCATION 2640'N line, 0'W line of section
LATITUDE 40.134537 **LONGITUDE** -88.257909
COUNTY **Champaign** **API** **120192426700** **1 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Engineering Test	Top	Bottom
#C-6582, no record	0	31
Total Depth		**31**

Core #C 6582 (' - 31') Received: July 1, 1968

Owner Address: ,

Permit Date: **Permit #:**

COMPANY Layne-Western Co.

FARM I-74&Prospect (Biedermans

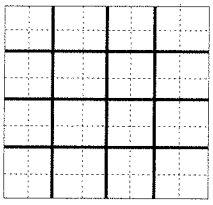
DATE DRILLED **NO.** B-2

ELEVATION 0 **COUNTY NO.** 23514

LOCATION SE SE NE

LATITUDE 40.135416 **LONGITUDE** -88.259105

COUNTY **Champaign** **API** **120192351400** **2 - 19N - 8E**



ILLINOIS STATE GEOLOGICAL SURVEY

Water Well	Top	Bottom
topsoil	0	1
soft yellow clay with gravel	1	16
soft blue clay with gravel	16	53
coarse clean sand with boulders	53	60
Total Depth		**60**

Casing: 4" 11# DRIVE from 0' to 56'
Screen: 4' of 4" diameter 14 slot
Water from sand at 53' to 60'.
Static level 28' below casing top which is 1' above GL
Pumping level 30' when pumping at 10 gpm for 1 hour
Permanent pump installed at 40'

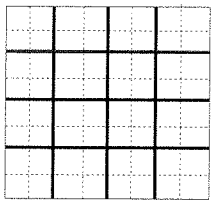
Driller's Log filed

Owner Address: 1902 N. Prospect Champaign, IL
Add'l loc. info: FALSE
A-1 Television
Location source: Location from permit

Image viewing help: New users please read this.
GET FILE IL State Water Survey Document

Permit Date: September 5, 1975 **Permit #:** 40846

COMPANY Sims, Ronald M. Sr.
FARM Gray, James
DATE DRILLED September 15, 1975 **NO.** 1
ELEVATION 0 **COUNTY NO.** 21747
LOCATION 1975'N line, 140'W line of NW
LATITUDE 40.136367 **LONGITUDE** -88.257406
COUNTY Champaign **API** 120192174700 **1 - 19N - 8E**



ATTACHMENT 6

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 - 57.19). 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, fictitious, or fraudulent material statement or representation, orally or in writing, to the Agency, or to a unit of local government to which the Agency has delegated authority under subsection (r) of Section 4 of this Act, related to or required by this Act, a regulation adopted under this Act, any federal law or regulation for which the Agency has responsibility, or any permit, term, or condition thereof, commits a Class 4 felony, and each such statement or writing shall be considered a separate Class 4 felony. A person who, after being convicted under paragraph 415 ILCS 5/44 (h)(8), violates paragraph 415 ILCS 5/44 (h)(8) a second or subsequent time, commits a Class 3 felony. (415 ILCS 5/44). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program
Property Owner Summary

A. Site Identification

IEMA Incident # (6- or 8-digit): 20200005 IEPA LPC# (10-digit): 0419010543

Site Name: Shree Kuber, Inc.

Site Address (not a P.O. Box): 1406 N. Prospect Ave.

City: Champaign County: Champaign Zip Code: 61820

Leaking UST Technical File

Engineered barriers, institutional controls, and other use restrictions, if any, proposed for this site may not be implemented without approval by the title holder(s) of record for the above-named property or the agent(s) of such person(s). These controls and restrictions will be identified in the No Further Remediation (NFR) Letter, which must be recorded in the chain of title for the property. Failure to maintain these controls is grounds for voidance of the NFR Letter.

B. Preventive, Engineering, and Institutional Controls and Land Use Limitations

The following controls and restrictions are proposed for the above-named site:

- ☐ Industrial/commercial land use limitation;
- ☐ On-site groundwater restriction prohibiting the use of groundwater beneath the site as a potable water supply;
- ☐ An engineered barrier: ☐ Building, ☐ asphalt/concrete, or ☐ Other:
  (*description*) _____
- ☐ Concrete Base with no Sumps;
- ☐ Building Control Technology: ☐ Existing ☐ Future
- ☐ Groundwater ordinance: ☐ With a MOU; ☐ Without a MOU;
- ☐ Construction worker caution notification;
- ☐ Maintain a clean soil barrier (indoor inhalation):
- ☐ Other: _____
- ☑ None (There are no proposed institutional controls other than the NFR Letter.).

C. Property Ownership Declaration

Report Title: 45-DAY REPORT - TIER 1 OBJECTIVES COMPLIANCE REPORT

Report Date: February 28, 2020

I hereby affirm that I have reviewed the attached report entitled *45-DAY REPORT - TIER 1 OBJECTIVES COMPLIANCE REPORT* and dated February 28, 2020, and that I accept the terms and conditions set forth therein, including any land use limitations, that apply to property I own. I further affirm that I have no objection to the recording of a No Further Remediation Letter containing the terms and conditions identified in the report upon the property I own.

Name of Property Owner: Shree Kuber, Inc.

Name of Officer or Agent: Sunil Modi

Mailing Address: 1406 N. Prospect Ave.

City: Champaign

State: Illinois

Zip Code: 61820

E-mail: sunnymodi@gmail.com

Signature:

Date: 3-10-20

D. Site Description

Real Estate Tax/Parcel Index Number:

41-20-01-351-005

Legal Description of Site (must be provided on a separate sheet):

SHREE KUBER , INC. – CHAMPAIGN
IEMA Incident No: 20200005; IEPA. LPC No. 0190105433

Legal Description

Lots 4 & 5 in Industrial Addition to the Original Town of Champaign, County of Champaign, State of Illinois.

Commonly Known As:
1406 N. Prospect Ave., Champaign, IL 61820

Parcel Identification Number
41-20-01-351-005

ATTACHMENT 7

Illinois Environmental Protection Agency

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

The Illinois EPA 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, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony (415 ILCS 5/44(h) and 57.17). This form has been approved by the Forms Management Center.

Leaking Underground Storage Tank Program
20-Day Certification

A. Site Identification

IEMA Incident # (6- or 8-digit): 20200005 IEPA LPC # (10-digit): 0190105433

Site Name: Shree Kuber, Inc.

Site Address (not a P.O. Box): 1406 N Prospect Ave.

City: Champaign County: Champaign Zip Code: 61820

B. Initial Abatement

1. I am/we are the owner and/or operator of the underground storage tank system(s) from which a release was reported under the IEMA incident correctly identified above;
2. As much of the regulated substance as necessary to prevent further release into the environment has been removed;
3. Any aboveground releases or exposed below ground releases have been visually inspected;
4. Further migration of the released substance into surrounding soils and groundwater has been prevented;
5. Monitoring and mitigation of any fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures (such as sewers or basements) will continue;
6. Hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement, or corrective action activities have been remedied;
7. If the remedies included treatment or disposal of soils, the owner or operator has complied with 35 Ill. Adm. Code 722, 724, 725, and 807 through 815;
8. Measurement for the presence of a release has been conducted where contamination was most likely to be present at the UST site. In selecting sample types, sample locations and measurement methods, the nature of the stored substance, type of backfill, depth to groundwater, and other factors as appropriate for identifying the presence and source of the release have been considered; and
9. An investigation to determine the possible presence of free product has been conducted, and, if applicable, free product removal is being conducted in accordance with 35 Ill. Adm. Code 731.164 or 734.215.

C. Land Trust

☐ If the release involves one or more USTs that are the subject of a land trust, check here, proceed with completion of Section D, then complete and return the Land Trust Beneficial Interest Disclosure. If a land trust is involved, this and all documents requiring owner or operator signature must be signed by a beneficiary of the land trust with sufficient beneficial interest to meet the definition of "owner" or "operator" as defined by 35 Ill. Adm. Code 734 or 731.

If a land trust is not involved, proceed with completion of Section D below.

D. 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: Shree Kuber, Inc.

Contact: Subil Modi

Address: 1406 N. Prospect Ave.

City: Champaign

State: Illinois

Zip Code: 61820

Phone: 217-419-5424

Signature:

Date: 3-10-20

Consultant

Company: Green Wave Consulting, LLC

Contact: Mike Bettenhausen

Address: 4440 Ash Grove Drive, Suite A

City: Springfield

State: IL

Zip Code: 62711

E-mail: mikeb@greenwavecon.com

Phone: 217-726-7569 x260

Signature: DGS for Mike Bettenhausen

Date: 3-16-2020

I certify under penalty of law that all activities that are the subject of this 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 report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in this report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 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: Jeff Wienhoff

Company: Green Wave Consulting, LLC

Address: 4440 Ash Grove Drive, Suite A

City: Springfield State: IL Zip Code: 62711

Phone: (217) 726-7569 x250

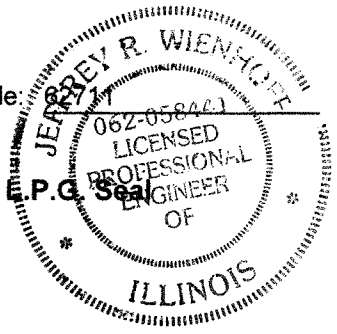
Ill. Registration No.: 062-058441

License Expiration Date: Nov 30, 2021

Signature:

Date: 3/16/2020

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



Electronic Filing: Received, Clerk's Office 1/6/2021

Illinois Environmental Protection Agency

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

Leaking Underground Storage Tank Program
45-Day Report

A. Site Identification

IEMA Incident # (6- or 8-digit): 20200005 IEPA LPC# (10-digit): 0190105433

Site Name: Shree Kuber, Inc.

Site Address (Not a P.O. Box): 1406 N. Prospect Ave.

City: Champaign County: Champaign Zip Code: 61820

B. Release Information

UST Volume (gallons)	Material Stored in UST	Release Yes / No	Type of Release Tank Leak / Overfill / Piping Leak	Product Removed? Yes / No	Tank Status Repaired / Removed / Abandoned / In Use
10,000	Diesel	Yes	Overfill	Yes	Removed

C. Early Action

1. Does this report demonstrate that the most stringent Tier 1 remediation objectives have been met? ☑ Yes ☐ No

2. Was free product encountered? ☐ Yes ☑ No
   If **yes**, the owner or operator must submit a Free Product Removal Report (form LPC 504). If free product removal will be conducted for more than 45 days, a Free Product Removal Plan (and budget, if applicable) must be submitted (form LPC 504).

3. Have any fire or safety hazards posed by vapors or free product or contamination to a potable water supply been identified? ☐ Yes ☑ No

4. What was the volume of backfill material excavated? 209.80 Yards^3

5. What was the volume of native soil excavated? 0 Yards^3

6. Was groundwater encountered at the site? ☐ Yes ☑ No

7. Did the groundwater exhibit a sheen? ☐ Yes ☑ No

D. Site/Release Information

Provide the following:

1. Data on the nature and estimated quantity of release;
2. Data from available sources or site investigations concerning the following factors:
   a. Surrounding populations;
   b. Water quality;
   c. Use and approximate locations of wells potentially affected by the release;
   d. Subsurface soil conditions;
   e. Location of subsurface sewers;
   f. Climatological conditions; and
   g. Land use;
3. A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site;
4. The results of the free product investigations;
5. A discussion of the action taken to prevent further release of the regulated substance into the environment;
6. A discussion of the action taken to monitor and mitigate fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures; and
7. Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code 731.162 or 734.210(b).

E. Other Information

Provide the following:

1. An area map showing the site in relation to surrounding properties;
2. A cross section, to scale, showing the UST(s) and the excavation;
3. Analytical/screening results in tabular format including the results of soil samples required pursuant to 35 Ill. Adm. Code 734.210(h) and the most stringent Tier 1 remediation objectives;
4. Site map meeting the requirements of 35 Ill. Adm. Code 734.440 and including sample locations;
5. Soil boring logs;
6. Chain of custody forms;
7. Laboratory analytical reports;
8. Laboratory certifications;
9. A copy of the Office of the State Fire Marshal Permit for Removal, Abandonment-in-Place, or other OSFM permits or notifications;

10. A narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed of;

11. Photographs of UST removal activities and the excavation; and

12. Copies of manifests for soil and groundwater transported off-site.

F. Early Action Tier 1 Remediation Objectives Compliance Report

If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met and a groundwater investigation is not required, in addition to the information provided above, provide the following:

1. Site characterization;

2. If water was encountered in the excavation, provide a demonstration pursuant to 35 Ill. Adm. Code 734.210(h)(4)(C) that it is not representative of actual groundwater; and

3. Property Owner Summary (form LPC 568).

G. Signatures

UST Owner or Operator Signature:

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 and Licensed Professional Engineer or Licensed Professional Geologist Certification of Stage 1 Site Investigation Plan and Budget (applies to Part 734 sites continuing beyond early action):

Pursuant to 35 Ill. Adm. Code 734.315(b) and 734.310(b), I certify that the Stage 1site investigation will be conducted in accordance with 35 Ill. Adm. Code 734.315 and that the costs of the Stage 1 site investigation will not exceed the amounts set forth in 35 Ill. Adm. Code 734.Subpart H, Appendix D, and Appendix E. This certification is intended to meet the requirements for a plan and budget for the Stage 1 site investigation required to be submitted pursuant to 35 Ill. Adm. Code 734.315 and 734.310.

Continue onto next page.

Licensed Professional Engineer or Licensed Professional Geologist Certification:

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 this plan, budget, or report 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].

UST Owner or Operator

Name Shree Kuber, Inc.

Contact Sunil Modi

Address 1406 N Prospect Ave.

City Champaign

State Illinois

Zip Code 61820

Phone 217-419-5424

Signature

Date 3-10-20

Consultant

Company Green Wave Consulting, LLC

Contact Mike Bettenhausen

Address 4440 Ash Grove Drive, Suite A

City Springfield

State IL

Zip Code 62711

Phone 217-726-7569 x260

E-mail: mikeb@greenwavecon.com

Signature for Mike Bettenhausen

Date 3/16/2020

Licensed Professional Engineer or Geologist

Name Jeff Wienhoff

Company Green Wave Consulting, LLC

Address 4440 Ash Grove Drive, Suite A

City Springfield

State IL

Zip Code 62711

Phone 217-726-7569

Ill. Registration No. 062-058441

License Expiration Date 11/30/21

Signature

Date 3/16/20

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

JEFFREY R. WIENHOFF
062-058441
LICENSED
PROFESSIONAL
ENGINEER
OF
ILLINOIS

LEAKING UST TECHNICAL REVIEW NOTES

Reviewed by: Nicole Cosenza
Date Reviewed: April 7, 2020

Re: 0190105433 -- Champaign County
Champaign\Shree Kuber, Inc.
1406 North Prospect Avenue
Leaking UST Incident 20200005
Leaking UST Technical File

Document(s) Reviewed:
45 Day/CACR Dated 3/16/2020 [Rec'd 3/17/2020]

General Site Information:

Site subject to: 734

IEMA date(s): 1/3/2020	Payment from the Fund? (Y/N/unknown): U
UST system removed? (Y/N): Y	OSFM Fac. ID #:
Encountered groundwater? : N	SWAP mapping and evaluation completion date: 4/7/2020
Free product? (Y/N/unknown): N	Site placement correct in SWAP?: Y
Current/past land use: Active convenience store undergoing property redevelopment	Inspection Required?
Size & product of USTs: 1-10,000 gallon diesel fuel UST and piping	
Is site located in EJ area? Y red (4/7/2020)	Is investigation of indoor inhalation exposure route required? N
Has enough sampling been completed to perform a Right-to-Know Evaluation? Y	PLA Checklist Complete? N/A

Consultant Information: Green Wave Consulting, LLC (Mike Bettenhausen)
Phone: (217)726-7569 Ext. 260
Email: mikeb@greenwavecon.com

BOL File Information:
Incident # 20080255:

- 8 USTs associated with site.
- Notice of release letter sent 2/27/2008 for USTs #1-5 [Tank #1: 6,000 gallons diesel, Tank #2: 10,000 gallon gasoline, Tanks #3,4: 6,000 gallon gasoline, Tank #5: 2,000 gallon gasoline] .
- Early Action Extension Request received 4/4/2008.
- Early Action Approval Letter sent 4/8/2008.
- 45-Day Report received at IEPA 6/11/2008.
    A) 6,000 gallon diesel UST product release from tank overfill. Tank removed.

B) 2-6,000 gallon gasoline USTs, 1-10,000 gallon gasoline UST, 1-2,000 gallon gasoline UST abandoned in place. No releases reported for these tanks.
C) The 45 Day Report for the 2008 incident stated that contaminated soils still remained on site after EA sampling.
D) Fire marshall log states 20080255 is a contaminated site.
E) No maps provided in the 45 Day Report show EA sample locations.
F) No samples were collected around the piping associated with UST-1.

- Stage 1 results and stage 2 plan in DocuWare dated 8/14/2009.
- 45-Day Report Addendum received 9/2/2009.
    A) Original 45-Day report dated 6/11/2008 listed no release from USTs #2-5. OSFM records indicate releases did occur from these tanks. Amended 45-Day Report submitted to IEPA.
    B) 45-Day report reviewed by PM Mike Thorsen on 10/21/2009. Complete file review notes on DocuWare dated 10/21/2009.
- SICR review by PM Dave Meyers 8/4/2011.
- 10/17/2017 IEPA performed record review of incident 20080255 and informed
- owner/operator to contact Dave Meyers with additional information.
- Amended CAP/Budget submitted to IEPA dated 3/12/2018.
- Corrective Action Plan/Budget to address off site contamination reviewed by PM Dave Meyers 4/3/2018.
- IEPA sent letter requesting CAP modifications. PM Eric Kuhlman 6/6/2018.
- Consultant emails Dave Meyers regarding highway authority agreement 11/1/2018.
- Consultant submits amended CAP budget 11/26/2018 to Dave Meyers.
- Dave Meyers reviews amended CAP budget. Notes dated 12/10/2018. Budget denied per managers 10/11/18 review.
- Budget rejection letter sent 12/14/2018. PM Dave Meyers.

45-Day Report/CACR Review Notes (Rec'd 3/17/2020):

- Subsurface investigation indicated hydrocarbon impacted soil surrounding the diesel UST system (Tank # 6) (no date listed for investigation). Tank last used 12/19/18.
- Soil sampling indicated petroleum release around the UST system. Release was reported to IEMA on January 3, 2020 for 1-10,000 gallon diesel fuel UST and associated piping. Assigned incident number 20200005.
- Quantity of release is not known.
- January 21, 2020 Earth Services initiated dispenser removal and UST uncovering.
- January 22, 2020 GFL Environmental pumped down 3,000 gallons of residual fuel/water from the UST, along with visible impacted water from the tank pit.
- No groundwater recharge was detected in the pit on either January 23 or 24, 2020.
- UST was vented and tested to ensure lower explosive limit levels were less than 5% before continuing with tank removal, inspection and cleaning.

- Mr. Bruce Billman (OSFM Storage Tank Safety Specialist) confirmed indications of release with visual and olfactory indication of contaminated soils during removal of the UST and associated piping.
- UST was cleaned, crushed and disposed of, along with piping, at PDC Landfill in Clinton, IL
- Backfill soils displayed moderate hydrocarbon odors and staining.
- 209.8 cubic yards of impacted backfill soils were removed and disposed offsite at Clinton, IL landfill (manifest included).
- Remaining native sidewalls and floor of the UST cavity showed areas of light to moderate hydrocarbon impaction, but all confirmation sample results were below applicable Tier 1 objectives.
- 12 soil confirmation samples were collected from sidewalls, floor, and piping trench.
- Confirmation samples displayed visual and olfactory indications of hydrocarbon impaction.
- PID readings for all 12 samples were above 1 ppm. PID readings ranged from 1.8 ppm in sample CS-8 up to 182 ppm in sample CS-6 and CS-11.
- 12 samples were analyzed by PDC Laboratories in Springfield, IL for diesel fuel indicator contaminants: benzene, toluene, ethylbenzene, xylenes (BTEX), MTBE, and PNAs.
- None of the 12 samples tested displayed indicator contaminants above the most stringent Tier 1 ROs.
- Free product was not encountered during early action sampling.
- No potable wells within 200 feet of site. No CWS within 2500 feet of site.
- Owner/operator requesting NFR.

Illinois EPA Decision:

- Per Agency manager's meeting 6/16/2020, incident 2020005 is a re-reporting of incident 20080255 due to the soil indicator contaminant concentrations present at the UST do not indicate a new release, and the UST is within the plume of the previous incident based on CAP map submitted to Agency.

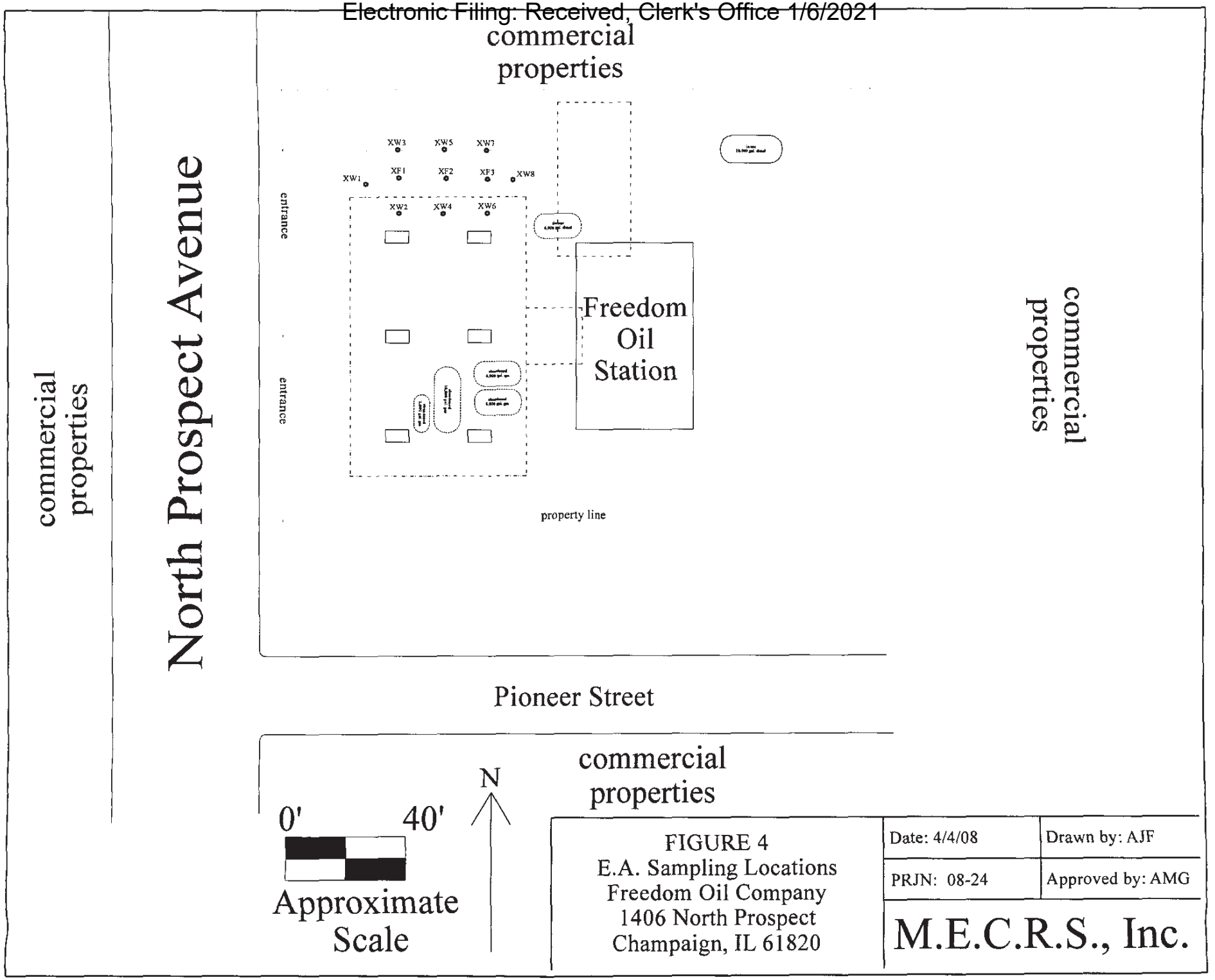


FIGURE 4
E.A. Sampling Locations
Freedom Oil Company
1406 North Prospect
Champaign, IL 61820

Date: 4/4/08	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier 1 Soil Remediation Obj.	East Floor (EF) 04/02/08	West Floor (WF) 04/02/08	North Wall (NW) 04/02/08	South Wall (SW) 04/02/08	East Wall (EW) 04/02/08	West Wall (WW) 04/02/08
Benzene	30	4.4	<2.3	410	18.6	50.6	3.5 M
Toluene	12,000	4.1	3.0	<141	<2.4	<10.3	<2.3
Ethylbenzene	13,000	26.4	8.0	2,490	18.3	296	7.6 M
Total Xylenes	150,000	45.2	23.1	4,820	116	312	25.5 M
MTBE	320	<2.3	<2.3	<141	<2.4	<10.3	<2.3
PNAs							
Acenapthene	570,000	<81.3	<77.7	<77.6	<78.7	80.9	<79.4
Acenapthylene	XX	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Anthracene	12,000,000	<243	<232	<232	<235	<236	<237
Benzo (a) Anthracene	2,000	<243	<232	<232	<235	<236	<237
Benzo (a) Pyrene	8,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Benzo (b) Fluoranthene	5,000	<404	<386	<386	<391	<394	<395
Benzo (g,h,i) Perylene	XX	<243	<232	<232	<235	<236	<237
Benzo (k) Fluoranthene	49,000	<243	<232	<232	<235	<236	<237
Chrysene	160,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Dibenzo (a,h) Anthracene	2,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Fluoranthene	4,300,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Fluorene	560,000	<81.3	<77.7	<77.6	84.0	<79.2	<79.4
Ideno (1,2,3-cd) Pyrene	14,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Naphthalene	84,000	<81.3	<77.7	121	<78.7	147	<79.4
Phenanthrene	XX	<81.3	<77.7	106	79.1	164	<79.4
Pyrene	4,200,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	Landfill 1 (LF-1) 04/01/08	Landfill 2 (LF-2) 04/01/08	Landfill 3 (LF-3) 04/01/08	Exc Floor 1 (XF1) 4/3/008	Exc Floor 2 (XF2) 4/3/008	Exc Floor 3 (XF3) 4/3/008	Exc Wall 1 (XW1) 4/3/008
Benzene	30	<2.5	**280**	**923**	<2.5	<2.3	<2.4	24.7
Toluene	12,000	5.6	<164	<311	7.6	<2.3	<2.4	283
Ethylbenzene	13,000	<2.5	201	2,150	4.0	<2.3	<2.4	99.1
Total Xylenes	150,000	<6.2	1,140	2,960	15.2	<5.8	<6.0	652
MTBE	320	NA	NA	NA	<2.5	<2.3	<2.4	<11.7
PNAs								
Acenapthene	570,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Acenapthylene	XX	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Anthracene	12,000,000	<251	<268	<250	<251	<236	<241	<255
Benzo (a) Anthracene	2,000	<251	<268	<250	<251	<236	<241	<255
Benzo (a) Pyrene	8,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Benzo (b) Fluoranthene	5,000	<417	<447	<416	<418	<393	<401	<425
Benzo (g,h,i) Perylene	XX	<251	<268	<250	<251	<236	<241	<255
Benzo (k) Fluoranthene	49,000	<251	<268	<250	<251	<236	<241	<255
Chrysene	160,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Dibenzo (a,h) Anthracene	2,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Fluoranthene	4,300,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Fluorene	560,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Ideno (1,2,3-cd) Pyrene	14,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Naphthalene	84,000	<84.0	<89.9	514	<84.2	<79.1	<80.6	<85.5
Phenanthrene	XX	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Pyrene	4,200,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	Exc Wall 2 (XW2) 04/03/08	Exc Wall 3 (XW3) 04/03/08	Exc Wall 4 (XW4) 04/03/08	Exc Wall 5 (XW5) 04/03/08	Exc Wall 6 (XW6) 04/03/08	Exc Wall 7 (XW7) 04/03/08	Exc Wall 8 (XW8) 04/03/08
Benzene	30	67.7	<2.3	<2.2	<2.3	<2.4	5.4	5.1
Toluene	12,000	285	23.1	<2.2	<2.3	<2.4	2.4	<2.3
Ethylbenzene	13,000	29.2	9.5	2.3	<2.3	3.0 M	9.1	229
Total Xylenes	150,000	139	48.7	<5.6	<5.8	6.2 M	10.6	85.2
MTBE	320	<2.4	<2.3	<2.2	<2.3	<2.4	<2.3	<2.3
PNAs								
Acenapthene	570,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Acenapthylene	XX	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Anthracene	12,000,000	<239	<233	<230	<235	<244	<234	<233
Benzo (a) Anthracene	2,000	<239	<233	<230	<235	<244	<234	<233
Benzo (a) Pyrene	8,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Benzo (b) Fluoranthene	5,000	<398	<388	<383	<391	<406	<390	<388
Benzo (g,h,i) Perylene	XX	<239	<233	<230	<235	<244	<234	<233
Benzo (k) Fluoranthene	49,000	<239	<233	<230	<235	<244	<234	<233
Chrysene	160,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Dibenzo (a,h) Anthracene	2,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Fluoranthene	4,300,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Fluorene	560,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Ideno (1,2,3-cd) Pyrene	14,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Naphthalene	84,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	626
Phenanthrene	XX	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	107
Pyrene	4,200,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

N

ROCK LOT

CANOPY

SIGN

CS-1

CS-2

CS-3

CS-4

CS-5

CS-6

CS-7

CS-8

CS-9

CS-10

CS-11

CS-12

RC-1

#6

#7

#8

SITE BUILDING

COMMERCIAL BUILDING

PROSPECT AVE

SIDEWALK

SIGN

CANOPY

EMPTY ROCK LOT

EMPTY ROCK L

0' 10' 20' 40' FEET

1" = 20'

LEGEND

PROJECT PROPERTY LINE
PROPERTY LINE
PIPING
WATER — WATER LINE
GAS — GAS LINE
OHE — OVERHEAD UTILITIES
SEWER — SANITARY OR STORM SEWER LINE
PHONE — UNDERGROUND PHONE LINE
UE — UNDERGROUND ELECTRICAL LINE

UST LEGEND

6. 10,000 GALLON DIESEL UST (REMOVED)
7. 8,000 GALLON GASOLINE UST
8. 12,000 GALLON GASOLINE UST

CONFIRMATION SAMPLE LOCATION
(IMPACTED ABOVE TACO TIER 1 SRO'S)

0286

GWC
GREEN WAVE CONSULTING, LLC
4440 Ash Grove Drive, Suite A
Springfield, IL 62711 (217-726-7569)

SITE AREA FEATURES MAP

PROSPECT MINI MART
1406 N PROSPECT AVE CHAMPAIGN, IL 61820

PREPARED BUHLIG	DATE 02/20		
DRAWN BETTENHAUSEN	DATE 02/20		
APPROVED WIENHOFF	DATE 02/20		
INCIDENT NO. 2020-0005	FILE NAME PROSPECT MINI MART - SAF	PROJECT NO. 281	FIGURE 2

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-1 3' 08/19/08	MW-1 7' 08/19/08	MW-1 13' 08/19/08	MW-1 17' 08/19/08	MW-2 3' 08/19/08	MW-2 9' 08/19/08	MW-2 15' 08/19/08
MTBE	320	<MDL	<MDL	73.9	21.3	<MDL	<MDL	13.6
Benzene	30	<MDL	140	2.2	1.9	4.3	13.1	3.0
Toluene	12,000	<MDL	<MDL	2.9	2.3	2.7	<MDL	5.4
Ethylbenzene	13,000	5.0	5,460	2.2	<MDL	2.8	61.5	3.1
Total Xylenes	5,600	7.1	519	<MDL	<MDL	7.3	124	7.4
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	127	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	84.6	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	190	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	570	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-3 5' 08/19/08	MW-3 7' 08/19/08	MW-3 13' 08/19/08	MW-4 3' 08/19/08	MW-4 7' 08/19/08	MW-4 13' 08/19/08	MW-5 3' 08/19/08
MTBE	320	<MDL	<MDL	26.0	<MDL	<MDL	6.3	<MDL
Benzene	30	6,350	3,120	2.9	<MDL	3.1	3.1	<MDL
Toluene	12,000	514	619	2.4	<MDL	4.5	5.5	1.6
Ethylbenzene	13,000	11,500	106,000	3.7	<MDL	9.5	4.0	<MDL
Total Xylenes	5,600	27,400	428,000	10.9	<MDL	14.0	9.1	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	205	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	367	2,830	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	106	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	209	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-5 7' 08/19/08	MW-5 13' 08/19/08	B-1 3' 01/25/11	B-1 7' 01/25/11	B-1 12' 01/25/11	B-2 3' 01/25/11	B-2 7' 01/25/11
MTBE	320	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzene	30	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Toluene	12,000	<MDL	<MDL	<MDL	7.36	<MDL	<MDL	<MDL
Ethylbenzene	13,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Total Xylenes	5,600	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	B-2 12' 01/25/11	MW-6 3' 03/24/11	MW-6 7' 03/24/11	MW-7 3' 03/24/11	MW-7 7' 03/24/11	MW-8 3' 03/24/11	MW-8 7' 03/24/11
MTBE	320	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzene	30	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Toluene	12,000	<MDL	<MDL	<MDL	<MDL	4.65	<MDL	<MDL
Ethylbenzene	13,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Total Xylenes	5,600	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-9 3' 03/24/11	MW-9 7' 03/24/11	B-3 3' 10/24/17	B-3 8' 10/24/17	B-4 3' 10/24/17	B-4 8' 10/24/17	B-5 3' 10/24/17
MTBE	320	<MDL	<MDL	<26	<25	<27	<26	<27
Benzene	30	<MDL	<MDL	<26	290	190	160	230
Toluene	12,000	<MDL	9.06	<26	<25	59	<26	<27
Ethylbenzene	13,000	<MDL	<MDL	<26	1,300	250	95	260
Total Xylenes	5,600	<MDL	<MDL	230	95	550	<79	400
PNAs								
Acenapthene	570,000	<MDL	<MDL	<85	<83	<88	<86	<88
Acenapthylene	XX	<MDL	<MDL	<85	<83	<88	<86	<88
Anthracene	12,000,000	<MDL	<MDL	<85	<83	<88	<86	<88
Benzo (a) Anthracene	2,000	<MDL	<MDL	14	<8.3	<8.8	<8.6	<8.8
Benzo (a) Pyrene	800	<MDL	<MDL	<8.5	<8.3	<8.8	<8.6	<8.8
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	13	<8.3	<8.8	<8.6	<8.8
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	40	<8.3	<8.8	<8.6	<8.8
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	8.5	<4.2	<4.5	<4.4	<4.4
Chrysene	160,000	<MDL	<MDL	32	<8.3	<8.8	<8.6	<8.8
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<8.5	<8.3	<8.8	<8.6	<8.8
Fluoranthene	4,300,000	<MDL	<MDL	30	<8.3	<8.8	<8.6	15
Fluorene	560,000	<MDL	<MDL	<85	<83	<88	<86	<88
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<8.5	<8.3	<8.8	<8.6	<8.8
Naphthalene	1,800	<MDL	<MDL	350	350	<88	160	300
Phenanthrene	XX	<MDL	<MDL	<85	<83	<88	<86	<88
Pyrene	4,200,000	<MDL	<MDL	23	<8.3	<8.8	<8.6	<8.8

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	B-5 7' 10/24/17	B-6 4' 10/24/17	B-6 7' 10/24/17				
MTBE	320	<27	31	<29				
Benzene	30	410	1,300	420				
Toluene	12,000	<27	670	230				
Ethylbenzene	13,000	250	1,200	340				
Total Xylenes	5,600	170	5,600	1,900				
PNAs								
Acenapthene	570,000	<86	280	<90				
Acenapthylene	XX	<86	<90	<90				
Anthracene	12,000,000	<86	440	180				
Benzo (a) Anthracene	2,000	<8.6	23	140				
Benzo (a) Pyrene	800	<8.6	210	<9.0				
Benzo (b) Fluoranthene	5,000	<8.6	330	150				
Benzo (g,h,i) Perylene	XX	<8.6	220	170				
Benzo (k) Fluoranthene	49,000	<4.3	96	56				
Chrysene	160,000	<8.6	380	230				
Dibenzo (a,h) Anthracene	800	<8.6	<9.0	19				
Fluoranthene	4,300,000	<8.6	640	270				
Fluorene	560,000	<86	<90	<90				
Ideno (1,2,3-cd) Pyrene	8,000	<8.6	130	77				
Naphthalene	1,800	180	150	160				
Phenanthrene	XX	<86	720	480				
Pyrene	4,200,000	<8.6	520	220				

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)
XX = Tier I soil remediation objective not listed in TACO tables.
NA = not analyzed
M = Matrix interferences identified

TACO Parameters

Sample #	foc	pH	Bulk Density,	Particle Density	% Moisture	Porosity
Surface	2.90%	7.40	1.26	2.52	42.8%	0.50
Subsurface	0.87%	7.77	1.50	2.64	27.8%	0.43

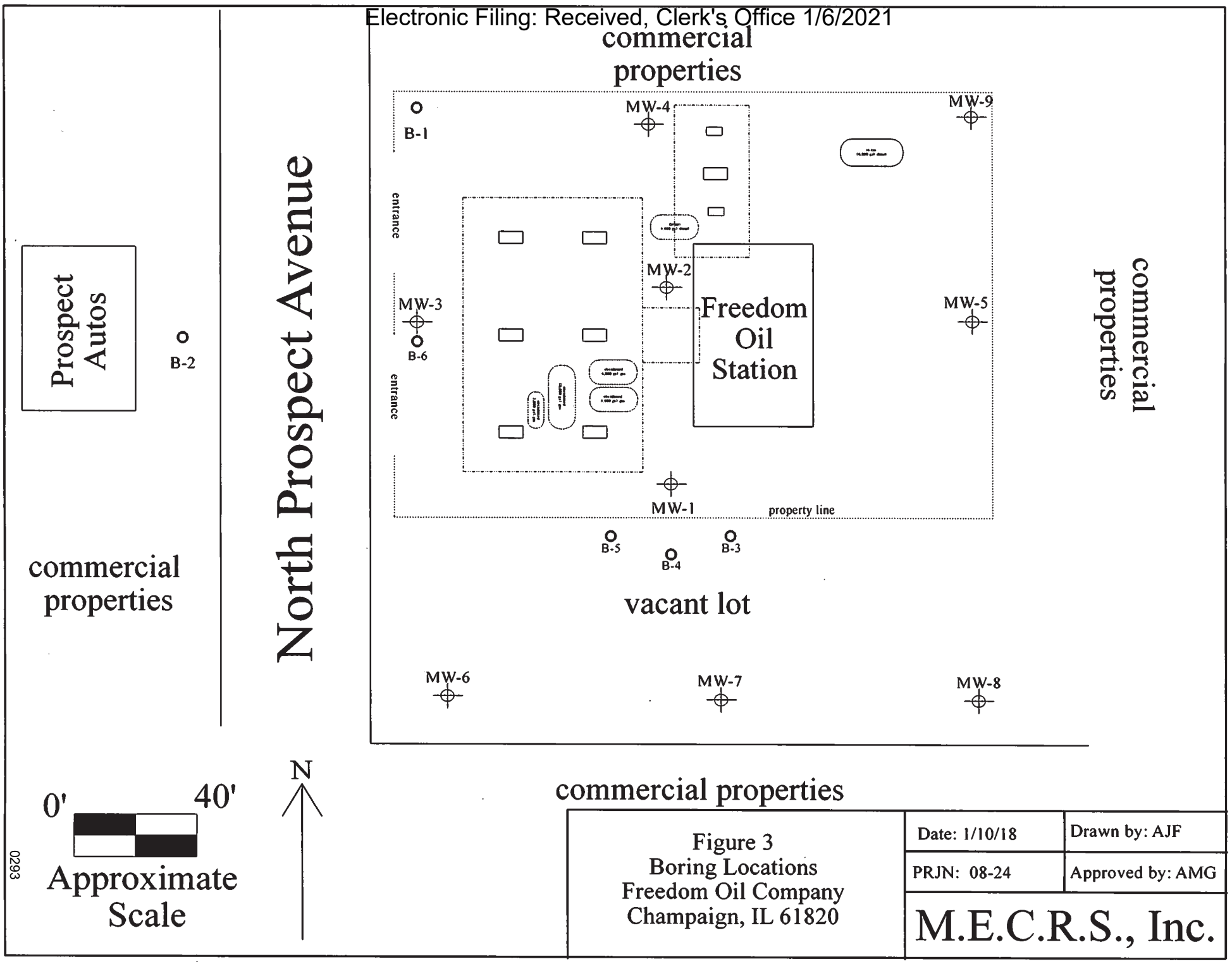


Figure 3
Boring Locations
Freedom Oil Company
Champaign, IL 61820

Date: 1/10/18	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

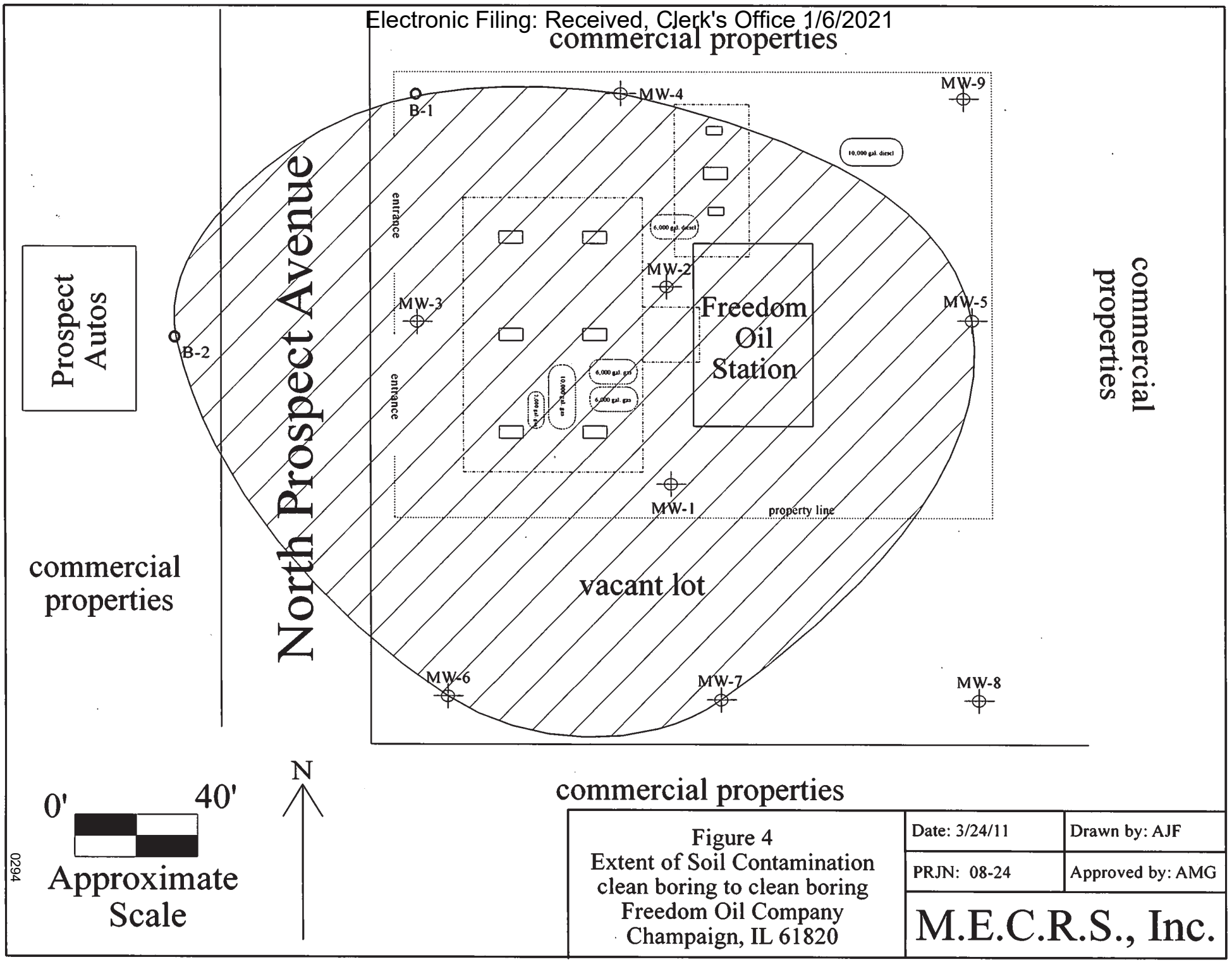


Figure 4
Extent of Soil Contamination
clean boring to clean boring
Freedom Oil Company
Champaign, IL 61820

Date: 3/24/11	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

0294

From:	Benanti, Trent
To:	Cosenza, Nicole
Subject:	FW: June 16, 2020 Managers Meeting - Freedom Oil Company & Shree Kuber, Inc. - Leaking UST Incidents 20080255 & 20200005
Date:	Tuesday, June 16, 2020 3:15:05 PM
Attachments:	2008 45 DAY.pdf 2018 CAP.pdf 2020 45 DAY.pdf

I discussed this site with the managers this morning. We determined Incident 20200005 is a re-reporting of Incident 20080255.

Please copy Brian Bauer on the Re-Reporting Letter.

Thank you,

Trent L. Benanti, P.E.
Unit Manager
Leaking UST Program
Illinois EPA
Phone: (217) 524-4649
Email: trent.benanti@illinois.gov

From: Benanti, Trent
Sent: Monday, June 15, 2020 3:37 PM
To: Dunn, Greg <Greg.Dunn@Illinois.gov>; Lowder, Mike <Mike.Lowder@Illinois.gov>; Bauer, Brian P. <Brian.Bauer@Illinois.gov>; Putrich, Steve <Steve.Putrich@Illinois.gov>; Kaiser, Karl <Karl.Kaiser@Illinois.gov>
Cc: Cosenza, Nicole <Nicole.Cosenza@Illinois.gov>
Subject: June 16, 2020 Managers Meeting - Freedom Oil Company & Shree Kuber, Inc. - Leaking UST Incidents 20080255 & 20200005

Incident 20080255 (Freedom Oil Company + MECRS)

- Tank 1 (6,000-gallon diesel fuel) was removed.
  Tank 2 (10,000-gallon gasoline) was abandoned in place.
  Tank 3 (6,000-gallon gasoline) was abandoned in place.
  Tank 4 (6,000-gallon gasoline) was abandoned in place.
  Tank 5 (2,000-gallon gasoline) was abandoned in place.
  Tank 6 (10,000-gallon diesel fuel) remained in service.
  Tank 7 (8,000-gallon premium gasoline) was installed.
  Tank 8 (12,000-gallon regular gasoline) was installed.

- Tanks 2 through 5 served the dispensers under the larger canopy. Tanks 1 and 6 served the dispensers under the smaller canopy.

- Soil samples XF1-XF3 and XW1-XW8 were collected from the excavation associated with the

installation of Tanks 7 and 8.

- Soil samples EF, WF, EW, NW, SW, and WW were collected from the excavation associated with the removal of Tank 1.

- Soil samples were collected from six soil borings (B-1 – B-6) and nine monitoring wells (MW-1 – MW-9).

- See 2008 45 Day.pdf and 2018 CAP.pdf for site maps and soil analytical tables. It should be noted that none of the site maps show the piping or soil samples EF, WF, EW, NW, SW, and WW.

Incident 20200005 (Shree Kuber, Inc. + Green Wave Consulting, LLC)

- Tank 6 (10,000-gallon diesel fuel) and associated piping were removed.

- Soil samples CS-1 through CS-12 were collected.

- See 2020 45 DAY.pdf for a site map and soil analytical table.

- Groundwater was not encountered (no recharge).

Question

Is Incident 20200005 are re-reporting of Incident 20080255?

Trent L. Benanti, P.E.
Unit Manager
Leaking UST Program
Illinois EPA
Phone: (217) 524-4649
Email: trent.benanti@illinois.gov

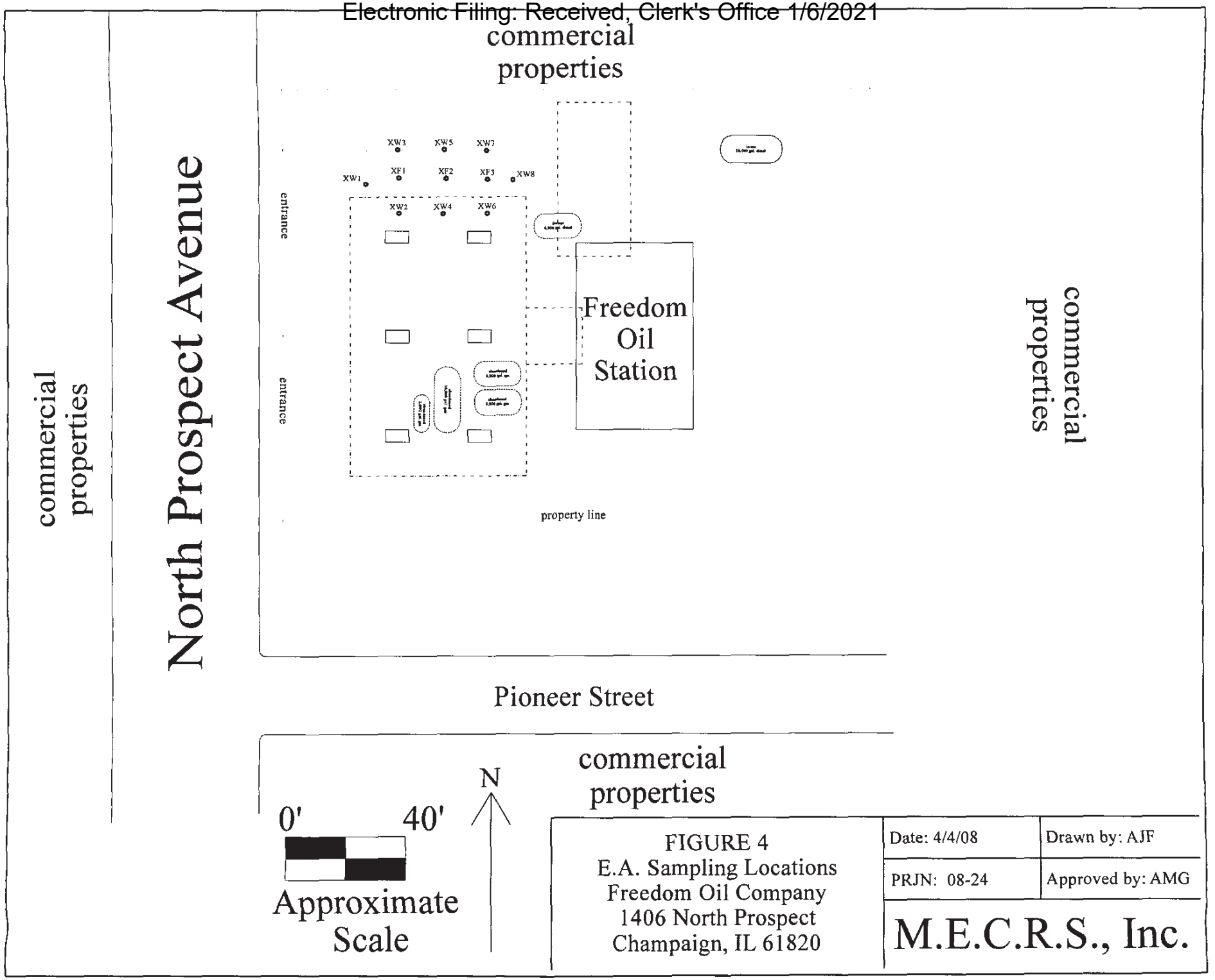


FIGURE 4
E.A. Sampling Locations
Freedom Oil Company
1406 North Prospect
Champaign, IL 61820

Date: 4/4/08	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier 1 Soil Remediation Obj.	East Floor (EF) 04/02/08	West Floor (WF) 04/02/08	North Wall (NW) 04/02/08	South Wall (SW) 04/02/08	East Wall (EW) 04/02/08	West Wall (WW) 04/02/08
Benzene	30	4.4	<2.3	410	18.6	50.6	3.5 M
Toluene	12,000	4.1	3.0	<141	<2.4	<10.3	<2.3
Ethylbenzene	13,000	26.4	8.0	2,490	18.3	296	7.6 M
Total Xylenes	150,000	45.2	23.1	4,820	116	312	25.5 M
MTBE	320	<2.3	<2.3	<141	<2.4	<10.3	<2.3
PNAs							
Acenapthene	570,000	<81.3	<77.7	<77.6	<78.7	80.9	<79.4
Acenapthylene	XX	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Anthracene	12,000,000	<243	<232	<232	<235	<236	<237
Benzo (a) Anthracene	2,000	<243	<232	<232	<235	<236	<237
Benzo (a) Pyrene	8,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Benzo (b) Fluoranthene	5,000	<404	<386	<386	<391	<394	<395
Benzo (g,h,i) Perylene	XX	<243	<232	<232	<235	<236	<237
Benzo (k) Fluoranthene	49,000	<243	<232	<232	<235	<236	<237
Chrysene	160,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Dibenzo (a,h) Anthracene	2,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Fluoranthene	4,300,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Fluorene	560,000	<81.3	<77.7	<77.6	84.0	<79.2	<79.4
Ideno (1,2,3-cd) Pyrene	14,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4
Naphthalene	84,000	<81.3	<77.7	121	<78.7	147	<79.4
Phenanthrene	XX	<81.3	<77.7	106	79.1	164	<79.4
Pyrene	4,200,000	<81.3	<77.7	<77.6	<78.7	<79.2	<79.4

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	Landfill 1 (LF-1) 04/01/08	Landfill 2 (LF-2) 04/01/08	Landfill 3 (LF-3) 04/01/08	Exc Floor 1 (XF1) 4/3/008	Exc Floor 2 (XF2) 4/3/008	Exc Floor 3 (XF3) 4/3/008	Exc Wall 1 (XW1) 4/3/008
Benzene	30	<2.5	**280**	**923**	<2.5	<2.3	<2.4	24.7
Toluene	12,000	5.6	<164	<311	7.6	<2.3	<2.4	283
Ethylbenzene	13,000	<2.5	201	2,150	4.0	<2.3	<2.4	99.1
Total Xylenes	150,000	<6.2	1,140	2,960	15.2	<5.8	<6.0	652
MTBE	320	NA	NA	NA	<2.5	<2.3	<2.4	<11.7
PNAs								
Acenapthene	570,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Acenapthylene	XX	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Anthracene	12,000,000	<251	<268	<250	<251	<236	<241	<255
Benzo (a) Anthracene	2,000	<251	<268	<250	<251	<236	<241	<255
Benzo (a) Pyrene	8,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Benzo (b) Fluoranthene	5,000	<417	<447	<416	<418	<393	<401	<425
Benzo (g,h,i) Perylene	XX	<251	<268	<250	<251	<236	<241	<255
Benzo (k) Fluoranthene	49,000	<251	<268	<250	<251	<236	<241	<255
Chrysene	160,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Dibenzo (a,h) Anthracene	2,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Fluoranthene	4,300,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Fluorene	560,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Ideno (1,2,3-cd) Pyrene	14,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Naphthalene	84,000	<84.0	<89.9	514	<84.2	<79.1	<80.6	<85.5
Phenanthrene	XX	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5
Pyrene	4,200,000	<84.0	<89.9	<83.8	<84.2	<79.1	<80.6	<85.5

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	Exc Wall 2 (XW2) 04/03/08	Exc Wall 3 (XW3) 04/03/08	Exc Wall 4 (XW4) 04/03/08	Exc Wall 5 (XW5) 04/03/08	Exc Wall 6 (XW6) 04/03/08	Exc Wall 7 (XW7) 04/03/08	Exc Wall 8 (XW8) 04/03/08
Benzene	30	67.7	<2.3	<2.2	<2.3	<2.4	5.4	5.1
Toluene	12,000	285	23.1	<2.2	<2.3	<2.4	2.4	<2.3
Ethylbenzene	13,000	29.2	9.5	2.3	<2.3	3.0 M	9.1	229
Total Xylenes	150,000	139	48.7	<5.6	<5.8	6.2 M	10.6	85.2
MTBE	320	<2.4	<2.3	<2.2	<2.3	<2.4	<2.3	<2.3
PNAs								
Acenapthene	570,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Acenapthylene	XX	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Anthracene	12,000,000	<239	<233	<230	<235	<244	<234	<233
Benzo (a) Anthracene	2,000	<239	<233	<230	<235	<244	<234	<233
Benzo (a) Pyrene	8,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Benzo (b) Fluoranthene	5,000	<398	<388	<383	<391	<406	<390	<388
Benzo (g,h,i) Perylene	XX	<239	<233	<230	<235	<244	<234	<233
Benzo (k) Fluoranthene	49,000	<239	<233	<230	<235	<244	<234	<233
Chrysene	160,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Dibenzo (a,h) Anthracene	2,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Fluoranthene	4,300,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Fluorene	560,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Ideno (1,2,3-cd) Pyrene	14,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0
Naphthalene	84,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	626
Phenanthrene	XX	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	107
Pyrene	4,200,000	<80.0	<78.0	<77.0	<78.6	<81.6	<78.5	<78.0

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)

XX = Tier 1 soil remediation objective not listed in TACO tables.

NA = not analyzed

M = Matrix interferences identified

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-1 3' 08/19/08	MW-1 7' 08/19/08	MW-1 13' 08/19/08	MW-1 17' 08/19/08	MW-2 3' 08/19/08	MW-2 9' 08/19/08	MW-2 15' 08/19/08
MTBE	320	<MDL	<MDL	73.9	21.3	<MDL	<MDL	13.6
Benzene	30	<MDL	140	2.2	1.9	4.3	13.1	3.0
Toluene	12,000	<MDL	<MDL	2.9	2.3	2.7	<MDL	5.4
Ethylbenzene	13,000	5.0	5,460	2.2	<MDL	2.8	61.5	3.1
Total Xylenes	5,600	7.1	519	<MDL	<MDL	7.3	124	7.4
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	127	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	84.6	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	190	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	570	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-3 5' 08/19/08	MW-3 7' 08/19/08	MW-3 13' 08/19/08	MW-4 3' 08/19/08	MW-4 7' 08/19/08	MW-4 13' 08/19/08	MW-5 3' 08/19/08
MTBE	320	<MDL	<MDL	26.0	<MDL	<MDL	6.3	<MDL
Benzene	30	**6,350**	**3,120**	2.9	<MDL	3.1	3.1	<MDL
Toluene	12,000	514	619	2.4	<MDL	4.5	5.5	1.6
Ethylbenzene	13,000	11,500	**106,000**	3.7	<MDL	9.5	4.0	<MDL
Total Xylenes	5,600	**27,400**	**428,000**	10.9	<MDL	14.0	9.1	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	205	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	367	**2,830**	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	106	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	209	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-5 7' 08/19/08	MW-5 13' 08/19/08	B-1 3' 01/25/11	B-1 7' 01/25/11	B-1 12' 01/25/11	B-2 3' 01/25/11	B-2 7' 01/25/11
MTBE	320	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzene	30	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Toluene	12,000	<MDL	<MDL	<MDL	7.36	<MDL	<MDL	<MDL
Ethylbenzene	13,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Total Xylenes	5,600	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	B-2 12' 01/25/11	MW-6 3' 03/24/11	MW-6 7' 03/24/11	MW-7 3' 03/24/11	MW-7 7' 03/24/11	MW-8 3' 03/24/11	MW-8 7' 03/24/11
MTBE	320	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzene	30	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Toluene	12,000	<MDL	<MDL	<MDL	<MDL	4.65	<MDL	<MDL
Ethylbenzene	13,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Total Xylenes	5,600	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
PNAs								
Acenapthene	570,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Acenapthylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Anthracene	12,000,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Anthracene	2,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (a) Pyrene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chrysene	160,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluoranthene	4,300,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Fluorene	560,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Naphthalene	1,800	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Phenanthrene	XX	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pyrene	4,200,000	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	MW-9 3' 03/24/11	MW-9 7' 03/24/11	B-3 3' 10/24/17	B-3 8' 10/24/17	B-4 3' 10/24/17	B-4 8' 10/24/17	B-5 3' 10/24/17
MTBE	320	<MDL	<MDL	<26	<25	<27	<26	<27
Benzene	30	<MDL	<MDL	<26	290	190	160	230
Toluene	12,000	<MDL	9.06	<26	<25	59	<26	<27
Ethylbenzene	13,000	<MDL	<MDL	<26	1,300	250	95	260
Total Xylenes	5,600	<MDL	<MDL	230	95	550	<79	400
PNAs								
Acenapthene	570,000	<MDL	<MDL	<85	<83	<88	<86	<88
Acenapthylene	XX	<MDL	<MDL	<85	<83	<88	<86	<88
Anthracene	12,000,000	<MDL	<MDL	<85	<83	<88	<86	<88
Benzo (a) Anthracene	2,000	<MDL	<MDL	14	<8.3	<8.8	<8.6	<8.8
Benzo (a) Pyrene	800	<MDL	<MDL	<8.5	<8.3	<8.8	<8.6	<8.8
Benzo (b) Fluoranthene	5,000	<MDL	<MDL	13	<8.3	<8.8	<8.6	<8.8
Benzo (g,h,i) Perylene	XX	<MDL	<MDL	40	<8.3	<8.8	<8.6	<8.8
Benzo (k) Fluoranthene	49,000	<MDL	<MDL	8.5	<4.2	<4.5	<4.4	<4.4
Chrysene	160,000	<MDL	<MDL	32	<8.3	<8.8	<8.6	<8.8
Dibenzo (a,h) Anthracene	800	<MDL	<MDL	<8.5	<8.3	<8.8	<8.6	<8.8
Fluoranthene	4,300,000	<MDL	<MDL	30	<8.3	<8.8	<8.6	15
Fluorene	560,000	<MDL	<MDL	<85	<83	<88	<86	<88
Ideno (1,2,3-cd) Pyrene	8,000	<MDL	<MDL	<8.5	<8.3	<8.8	<8.6	<8.8
Naphthalene	1,800	<MDL	<MDL	350	350	<88	160	300
Phenanthrene	XX	<MDL	<MDL	<85	<83	<88	<86	<88
Pyrene	4,200,000	<MDL	<MDL	23	<8.3	<8.8	<8.6	<8.8

TABLE 1.
SOIL ANALYTICAL RESULTS
Freedom Oil Company
Champaign, IL

Analytes/ Sample ID: SAMPLE DATE	Tier I Soil Remediation Obj.	B-5 7' 10/24/17	B-6 4' 10/24/17	B-6 7' 10/24/17				
MTBE	320	<27	31	<29				
Benzene	30	410	1,300	420				
Toluene	12,000	<27	670	230				
Ethylbenzene	13,000	250	1,200	340				
Total Xylenes	5,600	170	5,600	1,900				
PNAs								
Acenapthene	570,000	<86	280	<90				
Acenapthylene	XX	<86	<90	<90				
Anthracene	12,000,000	<86	440	180				
Benzo (a) Anthracene	2,000	<8.6	23	140				
Benzo (a) Pyrene	800	<8.6	210	<9.0				
Benzo (b) Fluoranthene	5,000	<8.6	330	150				
Benzo (g,h,i) Perylene	XX	<8.6	220	170				
Benzo (k) Fluoranthene	49,000	<4.3	96	56				
Chrysene	160,000	<8.6	380	230				
Dibenzo (a,h) Anthracene	800	<8.6	<9.0	19				
Fluoranthene	4,300,000	<8.6	640	270				
Fluorene	560,000	<86	<90	<90				
Ideno (1,2,3-cd) Pyrene	8,000	<8.6	130	77				
Naphthalene	1,800	180	150	160				
Phenanthrene	XX	<86	720	480				
Pyrene	4,200,000	<8.6	520	220				

ALL RESULTS REPORTED IN PARTS PER BILLION (ug/kg, ug/L)
XX = Tier I soil remediation objective not listed in TACO tables.
NA = not analyzed
M = Matrix interferences identified

TACO Parameters

Sample #	foc	pH	Bulk Density,	Particle Density	% Moisture	Porosity
Surface	2.90%	7.40	1.26	2.52	42.8%	0.50
Subsurface	0.87%	7.77	1.50	2.64	27.8%	0.43

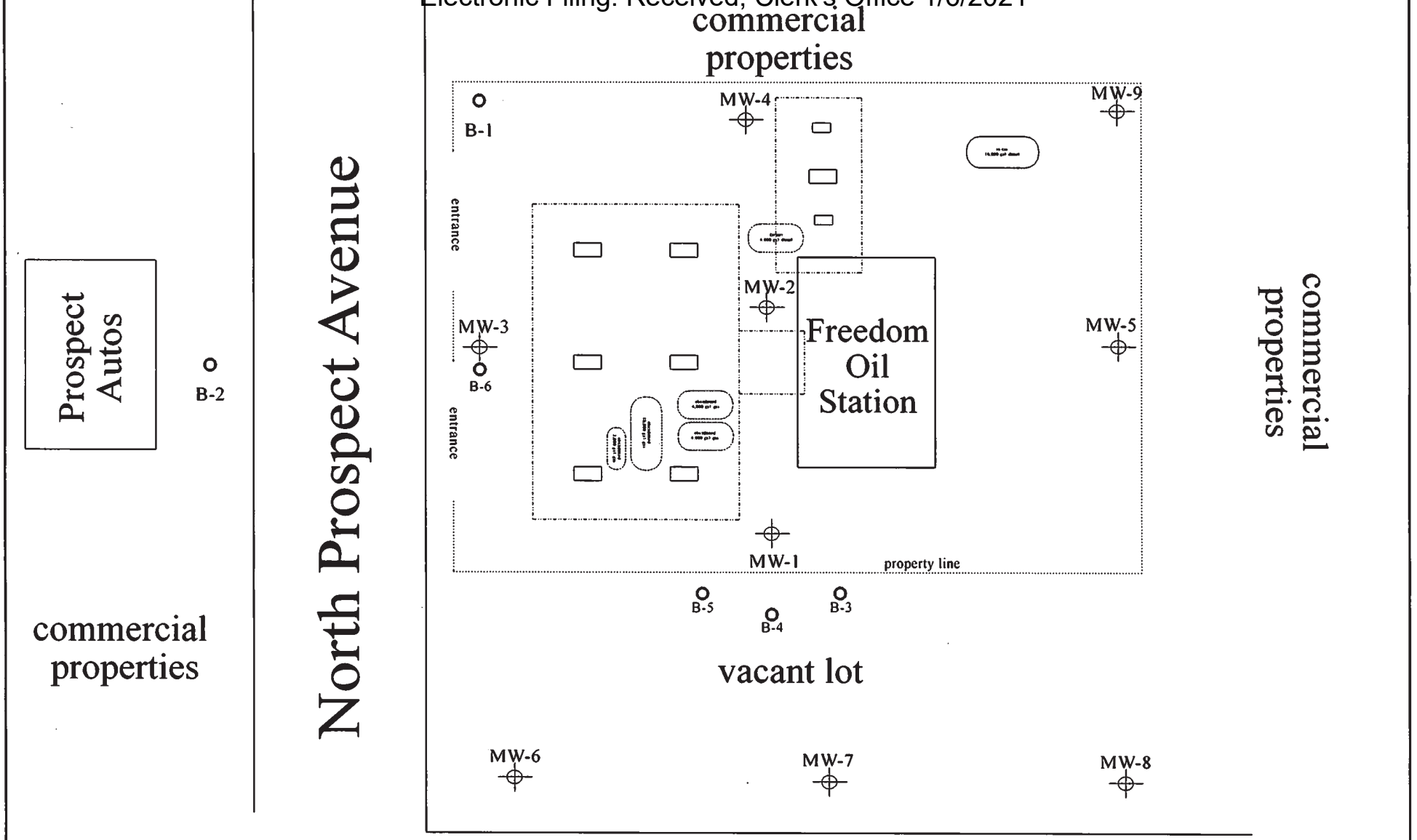


Figure 3
Boring Locations
Freedom Oil Company
Champaign, IL 61820

Date: 1/10/18	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

0307

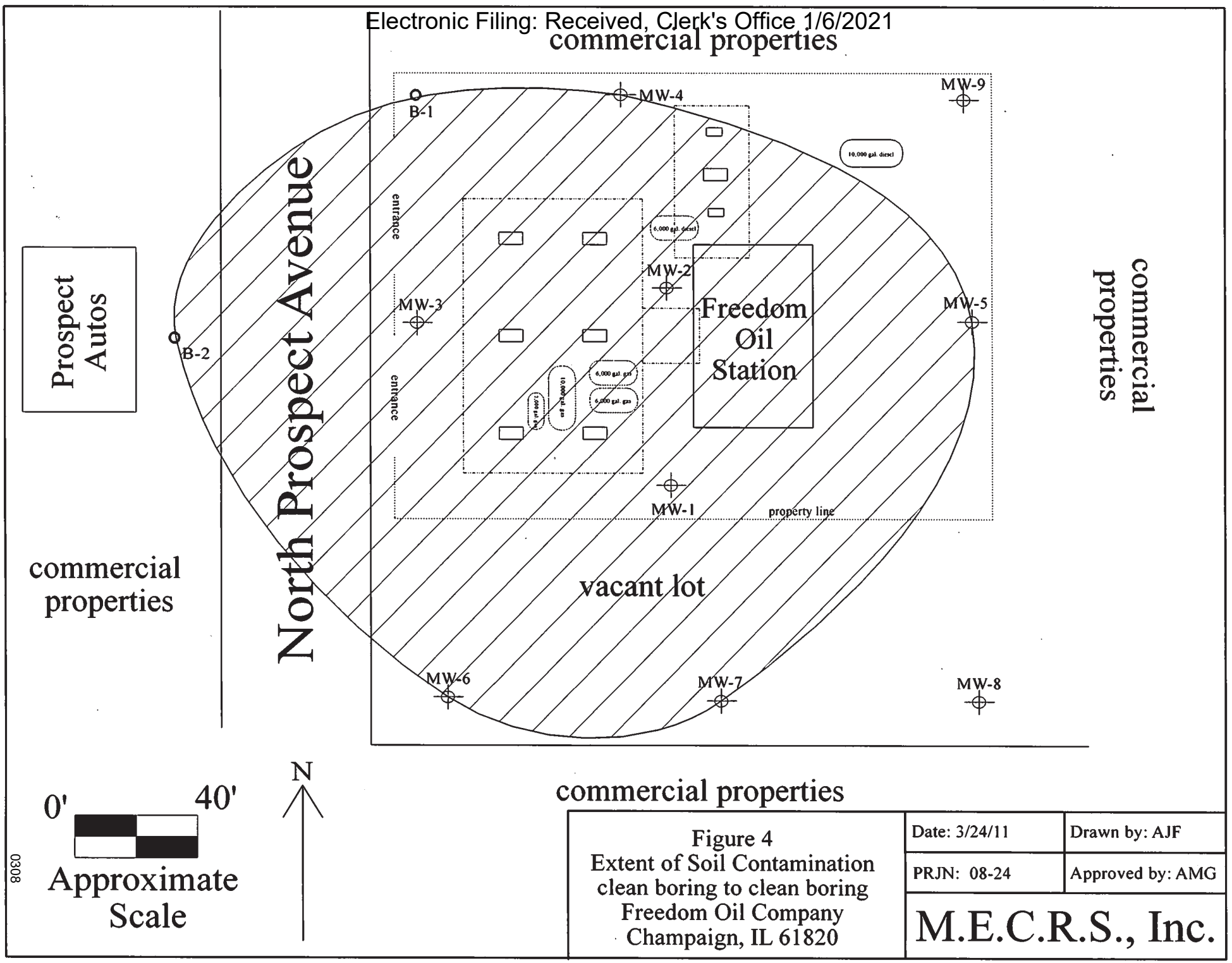


Figure 4
Extent of Soil Contamination
clean boring to clean boring
Freedom Oil Company
Champaign, IL 61820

Date: 3/24/11	Drawn by: AJF
PRJN: 08-24	Approved by: AMG

M.E.C.R.S., Inc.

0308

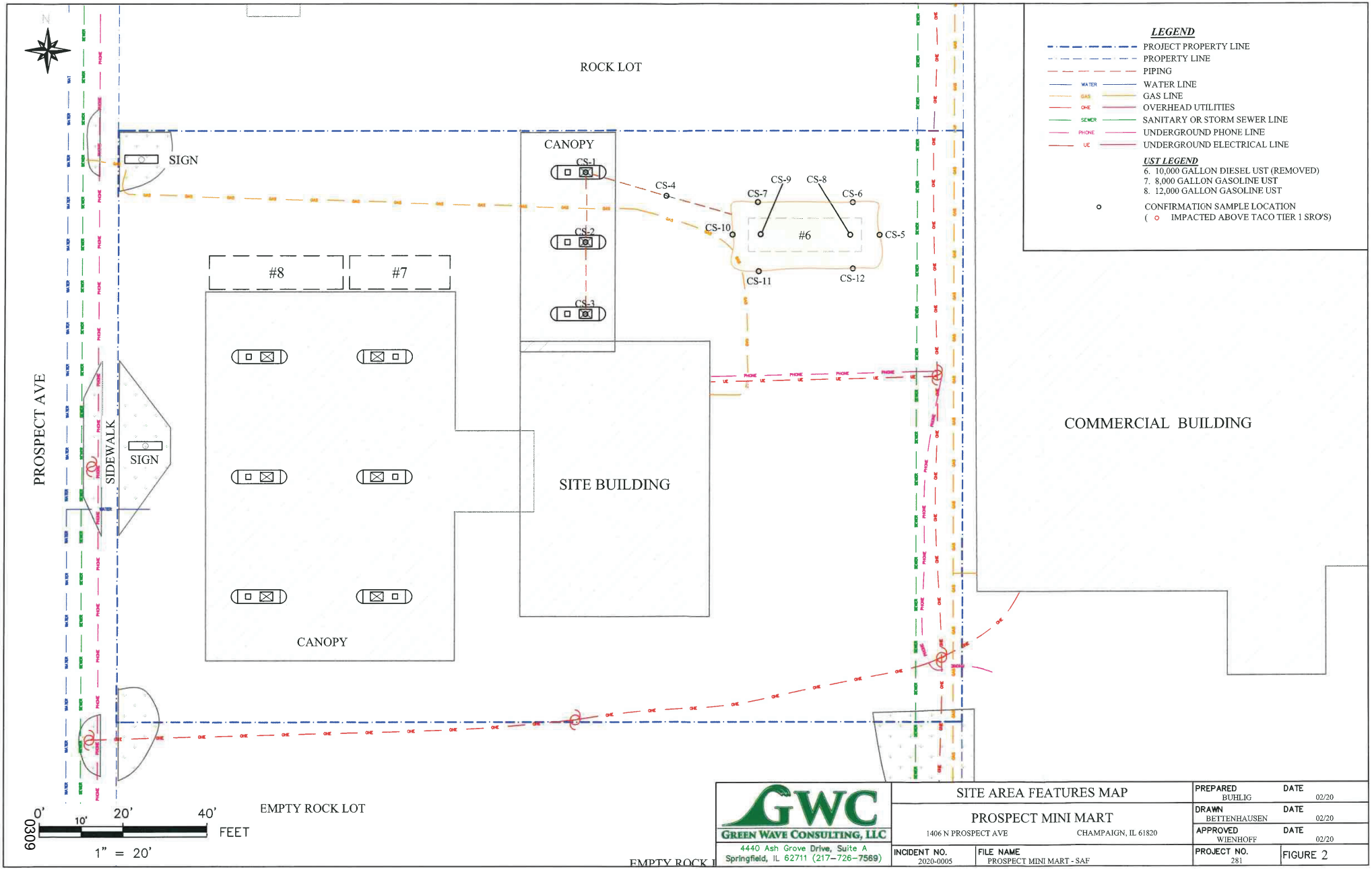

ROCK LOT
CANOPY
SIGN
CS-1
CS-2
CS-3
CS-4
CS-5
CS-6
CS-7
CS-8
CS-9
CS-10
CS-11
CS-12
#6
#8
#7
PROSPECT AVE
SIDEWALK
SIGN
SITE BUILDING
CANOPY
COMMERCIAL BUILDING
EMPTY ROCK LOT
0309
0' 10' 20' 40' FEET
1" = 20'
LEGEND
PROJECT PROPERTY LINE
PROPERTY LINE
PIPING
WATER LINE
GAS LINE
OVERHEAD UTILITIES
SANITARY OR STORM SEWER LINE
UNDERGROUND PHONE LINE
UNDERGROUND ELECTRICAL LINE
UST LEGEND
6. 10,000 GALLON DIESEL UST (REMOVED)
7. 8,000 GALLON GASOLINE UST
8. 12,000 GALLON GASOLINE UST
CONFIRMATION SAMPLE LOCATION
(IMPACTED ABOVE TACO TIER 1 SRO'S)
GWC
GREEN WAVE CONSULTING, LLC
4440 Ash Grove Drive, Suite A
Springfield, IL 62711 (217-726-7569)
SITE AREA FEATURES MAP
PROSPECT MINI MART
1406 N PROSPECT AVE CHAMPAIGN, IL 61820
INCIDENT NO. 2020-0005
FILE NAME PROSPECT MINI MART - SAF
PREPARED BUHLIG DATE 02/20
DRAWN BETTENHAUSEN DATE 02/20
APPROVED WIENHOFF DATE 02/20
PROJECT NO. 281
FIGURE 2

Table II: Early Action Soil Analytical Results
Shree Kuber, Inc.
Champaign, Illinois
Incident #20200005

Sample Name	TIER 1 Remediation Objectives	CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7
Depth		3.0	3.0	3.0	3.0	9.0	9.0	9.0
Sample Date		1/22/20	1/22/20	1/22/20	1/22/20	1/22/20	1/22/20	1/22/20
BTEX / MTBE								
Benzene	**0.03**	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	**13**	0.066	0.021	0.194	ND	ND	ND	ND
MTBE	**0.32**	ND	ND	ND	ND	ND	ND	ND
Toluene	**12**	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	**5.6**	ND	ND	ND	ND	ND	ND	ND
PNA								
Acenaphthene	**570**	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	**15**	ND	ND	ND	ND	ND	ND	ND
Anthracene	**12000**	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Anthracene	**0.9**	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	**0.9**	ND	ND	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	**9**	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,I)Perylene	**2300**	ND	ND	ND	ND	ND	ND	ND
Benzo(a)Pyrene	**0.09**	ND	ND	ND	ND	ND	ND	ND
Chrysene	**88**	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	**0.09**	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	**3100**	ND	ND	ND	ND	ND	ND	ND
Fluorene	**560**	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)Pyrene	**0.9**	ND	ND	ND	ND	ND	ND	ND
Napthalene	**1.8**	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	**140**	ND	ND	ND	ND	ND	ND	ND
Pyrene	**2300**	0.219	0.551	1.360	ND	ND	ND	0.265

Notes: All results are presented in mg/kg
Bold /Underlined values indicate exceedance
ND: Below Acceptable Detection Limits
NA: Not Analyzed

0310

Table II: Early Action Soil Analytical Results
Shree Kuber, Inc.
Champaign, Illinois
Incident #20200005

Sample Name	TIER 1 Remediation Objectives	CS-8	CS-9	CS-10	CS-11	CS-12
Depth		**13.0**	**13.0**	**9.0**	**9.0**	**9.0**
Sample Date		**1/22/20**	**1/22/20**	**1/23/20**	**1/23/20**	**1/23/20**
BTEX / MTBE						
Benzene	**0.03**	ND	ND	ND	ND	ND
Ethylbenzene	**13**	ND	ND	ND	ND	ND
MTBE	**0.32**	ND	ND	ND	ND	ND
Toluene	**12**	ND	ND	ND	ND	ND
Total Xylenes	**5.6**	ND	ND	ND	ND	ND
PNA						
Acenaphthene	**570**	ND	ND	ND	ND	ND
Acenaphthylene	**15**	ND	ND	ND	ND	ND
Anthracene	**12000**	ND	ND	ND	ND	ND
Benzo(a)Anthracene	**0.9**	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	**0.9**	ND	ND	ND	ND	ND
Benzo(k)Fluoranthene	**9**	ND	ND	ND	ND	ND
Benzo(g,h,I)Perylene	**2300**	ND	ND	ND	ND	ND
Benzo(a)Pyrene	**0.09**	ND	ND	ND	ND	ND
Chrysene	**88**	ND	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	**0.09**	ND	ND	ND	ND	ND
Fluoranthene	**3100**	ND	ND	ND	ND	ND
Fluorene	**560**	ND	ND	ND	ND	ND
Indeno(1,2,3-c,d)Pyrene	**0.9**	ND	ND	ND	ND	ND
Napthalene	**1.8**	ND	ND	ND	ND	ND
Phenanthrene	**140**	ND	ND	ND	ND	ND
Pyrene	**2300**	ND	ND	ND	0.195	ND

Notes: All results are presented in mg/kg
Bold /Underlined values indicate exceedance
ND: Below Acceptable Detection Limits
NA: Not Analyzed

0311

20200005 Shree Kuber, Inc. site

Agency determined incident is a re-reporting of 2008 incident.

Backfill was not sampled during Early Action of 20200005 incident. So, they ridded the evidence of a new release.

Data concentrations of 2020 incident are lower than 2008 incident.

- Per Agency manager's meeting 6/16/2020, incident 2020005 is a re-reporting of incident 20080255 due to the soil indicator contaminant concentrations present at the UST do not indicate a new release, and the UST is within the plume of the previous incident based on CAP map submitted to Agency.

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
7018 1830 0000 5282 8469

JUN 30 2020

Sunil Modi
Shree Kuber, Inc.
1406 North Prospect Avenue
Champaign, IL 61820

Re: 0190105433 -- Champaign County
Champaign\Shree Kuber, Inc. – Prospect Mini Mart
1406 North Prospect Avenue
Leaking UST Incident 20200005
Leaking UST Technical File

Dear Mr. Modi:

The Illinois Environmental Protection Agency (Illinois EPA) has reviewed the 45-Day/Corrective Action Completion Report submitted for the above-referenced incident. This report, dated March 16, 2020, was received by the Illinois EPA on March 17, 2020. 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).

Based on the information currently in the Illinois EPA's possession, it has been determined that the above-referenced incident is a re-reporting of Leaking UST Incident 20080255. Therefore, this incident is not subject to the reporting requirements of Title XVI of the Act or 35 Ill. Adm. Code 731 or 734.

The concentrations of contaminants in the soil after removal of the underground storage tanks do not indicate a new release occurred.

It should be noted that early action, site investigation, and corrective action activities associated with Leaking UST Incident 20200005 exceed the minimum requirements necessary to comply with the Act. Costs associated with early action, site investigation, and 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).

If you have any questions or require further assistance, please contact Nicole Cosenza at (217) 782-1638.

Sincerely,

Trent L. Benanti, P.E.
Unit Manager
Leaking Underground Storage Tank Program
Remedial Project Management Section
Bureau of Land

Tlb:bb:nc\20200005.docx

c: Green Wave Consulting, LLC (electronic copy), Mike Bettenhausen, mikeb@greenwavecon.com
BOL File