

Check one of the following:

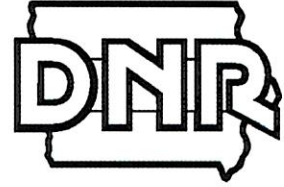
On-Site Storage of PCS

Landfarming PCS

Storage and Landfarming PCS



Iowa Department of Natural Resources  
PETROLEUM CONTAMINATED SOIL LANDFARMING  
AND STORAGE NOTIFICATION FORM



Multituse and single-use landfarming agencies shall submit the following notification form to the department and department field office with jurisdiction over the landfarm before land application; however, at least 30 days' notification is encouraged. Petroleum Contaminated Soil (PCS) from an emergency cleanup supervised by the department pursuant to subrule 120.6(1), however, shall be reported within 7 days of the emergency cleanup.

Send the completed application with attached information to:

Solid Waste Section  
Land Quality Bureau  
Iowa Department of Natural Resources  
502 E 9th Street  
Des Moines, IA 50319  
Fax: (515) 725-8202

Visit <http://www.iowadnr.gov/InsideDNR/DNRStaffOffices.aspx> for a listing of field offices addresses and jurisdictions

Questions contact Matt Graesch at (515) 725-8331 or [matt.graesch@dnr.iowa.gov](mailto:matt.graesch@dnr.iowa.gov)

For information on Emergency Response Spills, call (515) 725-8694 or visit <http://www.iowadnr.gov/About-DNR/DNR-Staff-Offices/Environmental-Field-Offices/Emergency-Response-Unit>

**SECTION 1. CONTACT INFORMATION (Provide the name, address and telephone number for the following):**

Landfarming Agency Owner(s)

Name: EcoSource, LLC

Street Address: 1001 Raccoon Street

City: Des Moines State: Iowa Zip Code: 50309

Phone Number: (515) 250-6695 E-mail: darren@ecosourceiowa.com

DNR Existing Permit Number for Agency: 77 -SDP- 74-20P -PCS

PCS Landfarming/Storage Location Owner

Name: Bud Jones

Street Address: 122 E Ayers St

City: Osceola State: Iowa Zip Code: 50213

Phone Number: (641) 342-3413 E-mail: bjconst@mediacombb.net

Legal Description of Property that will be Utilized for Landfarming/Storage:

*(you may attach a legal description from your county assessor)*

NE  $\frac{1}{4}$  of NW  $\frac{1}{4}$  of NW  $\frac{1}{4}$  21 72 N 26  E  W Clarke  
Section Township Range County

**SECTION 2: PCS LANDFARMING AND STORAGE INFORMATION**

Petroleum product contaminating soil (check all that apply):

Gasoline     Diesel     Waste Oil     Kerosene     Jet Fuel     Other \_\_\_\_\_

\* Note: Storage of non-standard PCS requires a permit amendment request

Predominant texture of the contaminated soil:

Clay     Sand     Silt     Gravel  
 Other \_\_\_\_\_

Does PCS contain or have the potential to produce tar balls:

Yes     No

\* PCS that has the potential to produce tar balls shall not be landfarmed

Estimated volume of PCS to be stored: 180 Cubic Yards

Date PCS is expected to be delivered for storage: 4/24/24

Date PCS is expected to be land applied: 4/24/24

Is this project part of a department-supervised emergency cleanup?:     Yes     No

If yes, provide the spill number \_\_\_\_\_

Petroleum Contaminated Site or Facility

Name: First Christian Church of Osceola

Street Address: 300 S Main Street

City: Osceola    State: Iowa    Zip Code: 50213

Phone Number: 641-342-2921    E-mail: \_\_\_\_\_

Legal Description of Property that will be Utilized for Landfarming/Storage:

*(you may attach a legal description from your county assessor)*

NE  $\frac{1}{4}$  of NW  $\frac{1}{4}$  of NW  $\frac{1}{4}$  21    72    N 26     E  W    Clarke  
Section    Township    Range    County

Underground Storage Tank Owner, if applicable

Name: Osceola First Christian Church

Street Address: 300 S Main Street

City: Osceola    State: IA    Zip Code: 50213

Phone Number: 641-342-2921    E-mail: \_\_\_\_\_

UST Registration Number, if applicable: 202400011

LUST Registration Number, if applicable: N/A

**SECTION 3. NOTIFICATION FORM CHECKLIST**

Checking the appropriate boxes below certifies that the attachments submitted in conjunction with this application form are complete and in compliance with the applicable chapters of the Iowa Administrative Code. While some of the attachments below may have been submitted previously, updated copies of each is required to be provided with each notification form.

**Required Document**

- Section A. Topographical Map of Landfarm [IAC 567 Chapter 120.11(1) "b" (2)]
- Section B. Soil Map of Landfarm with Key [IAC 567 Chapter 120.11(1) "b" (2)]
- Section C. 100-Year Flood Plain Map [IAC 567 Chapter 120.11(1) "b" (2)]
- Section D. Map of Landfarm Plot to be Utilized [IAC 567 Chapter 120.11(1) "b" (2)]
- Section E. Application Rate Calculations Pursuant to 120.9(6) [IAC 567 Chapter 120.11(1) "b"(3)]
- Section F. Chemical Analysis of Petroleum Contaminated Soil [IAC 567 Chapter 120.11(1) "c"]

**SECTION 4. LANDFARMING AGENCY OWNER CERTIFICATION FOR LANDFARMING AND STORAGE OF PCS**


I certify under penalty of law that I am the owner of the landfarming agency for which this Petroleum Contaminated Soil Landfarming and Storage Notification Form is submitted, and that I have examined and am familiar with the requirements of landfarming and storage of petroleum contaminated soil in accordance with Iowa Administrative Code 567-Chapter 120, and that the information I have provided is true, accurate and complete.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: Darren Fife

**SECTION 5. LANDFARMING SITE OWNER CERTIFICATION FOR LANDFARMING AND STORAGE OF PCS**

I certify I own the application or storage site for the petroleum contaminated soil referenced above and I understand the landfarming practices described in this notification must conform with the requirements contained in Iowa Administrative (IAC) Code 567-Chapter 120.

Signature:  Date: 8-22-24

Printed Name: Bud Jones

## DOCUMENTS TO BE ATTACHED

### SECTION A. TOPOGRAPHICAL MAP OF LANDFARM (ONLY APPLICABLE FOR SINGLE USE LANDFARM)

- ✓ Provide a topographical map that includes at least a ¼ mile radius around the landfarm site. Clearly mark the following on the map:
  - a. Application site boundary
  - b. Water wells and occupied structures within ¼ mile of the application site
  - c. Streams, lakes, ponds, drainage ditches, sinkholes and tile line surface intakes that are located within a ¼ mile of the application site

### SECTION B. SOIL MAP OF LANDFARM (ONLY APPLICABLE FOR SINGLE USE LANDFARM)

- ✓ Provide a soil map with key showing where the PCS will be applied and the landfarm site boundary. If PCS is planned to be stored, mark the location on the soil map. Soil maps can be obtained from the local Natural Resource Conservation Service (NRCS) office.

PCS shall not be applied on Loamy Sand, Sand, and Silt for single-use landfarms and Clay, Sandy Clay, Sandy Clay Loam, Sandy Loam, Loamy Sand, Sand, and Silt for multiuse landfarms as classified by the USDA Textural Classification Chart for Soils. Soils in the operating area shall have a pH greater than 6 and less than 9, free of debris larger than 4 inches in diameter, and have a minimum of 6 feet of soil over bedrock.

### SECTION C. FLOOD PLAIN MAP (ONLY APPLICABLE FOR SINGLE-USE LANDFARM)

- ✓ Provide a 100-year flood plain map showing where the PCS will be applied and the landfarm site boundary.

### SECTION D. MAP OF LANDFARM PLOT TO BE UTILIZED (ONLY APPLICABLE FOR MULTIUSE LANDFARM)

- ✓ Provide a map illustrating the multiuse landfarm site and indicating the landfarm plot which the PCS is to be applied.

### SECTION E. APPLICATION RATE CALCULATIONS PURSUANT TO IAC 567-120.9(6) (APPLICABLE TO SINGLE- USE AND MULTIUSE LANDFARM)

- ✓ PCS shall be land applied at a rate that is as uniform as practical over an area sufficient to satisfy the greater of the following area requirements. However, PCS from an emergency cleanup supervised by the department pursuant to subrule 120.6(1) may instead be land applied at a rate of 162 ft<sup>2</sup> of landfarm area per cubic yard (yd<sup>3</sup>) of PCS, that is as uniform as practical, and in which no layer of unincorporated PCS is thicker than 2 inches.
  - a. Petroleum constituents. PCS shall be land applied over the largest area required by the following:
    - (1) Benzene. PCS contaminated with benzene shall be land applied in accordance with Table 1. The average concentration of benzene in the PCS shall be used to determine the landfarm area (ft<sup>2</sup>) required per cubic yard (yd<sup>3</sup>) of PCS to be land applied. The average concentration of benzene shall be calculated from all soil boring test results that are within the PCS excavation area. The application shall be as uniform as practical over the area required.

| Table 1                                  |   |   |   |
|--|---|---|---|
| Average concentration of benzene (mg/kg) | Ft <sup>2</sup> of landfarm area per yd <sup>3</sup> of PCS applied | Maximum thickness of unincorporated PCS | Yd <sup>3</sup> of PCS per acre of landfarm |
| 0 < mg/kg ≤ 10                           | 81 ft <sup>2</sup>  | 4 inches                                | 537 yd <sup>3</sup>                         |
| 10 < mg/kg ≤ 20                          | 162 ft <sup>2</sup>   | 2 inches                                | 268 yd <sup>3</sup>                         |
| 20 < mg/kg                               | 324 ft <sup>2</sup>   | 1 inch                                  | 134 yd <sup>3</sup>                         |

(2) Toluene, ethylbenzene, xylene, and TEH-diesel. PCS that is not contaminated with benzene or MTBE, but is contaminated with toluene, ethylbenzene, xylene, THE-diesel, or some combination thereof, shall be land applied at a rate of 81 ft<sup>2</sup> of landfarm area per cubic yard (yd<sup>3</sup>) of PCS. The application shall be as uniform as practical, and no layer of unincorporated PCS shall be thicker than 4 inches.

- b. Total heavy metals. PCS that has been tested for heavy metals pursuant to subparagraph 120.6(2)"c"(4) shall be applied at a rate that is as uniform as practical, that results in no layer of PCS is thicker than 4 inches, and that upon incorporation produces a landfarm soil that satisfies the following requirements. This analysis requires prior testing of background levels of heavy metals at the proposed landfarm site.
  - (1) Total heavy metals are less than 2,500 milligrams per kilogram (mg/kg).
  - (2) Any particular concentration of a heavy metal is less than the appropriate statewide standard for soil developed pursuant to 567—Chapter 137.

**SECTION F. CHEMICAL ANALYSIS OF PETROLEUM CONTAMINATED SOIL (APPLICABLE TO SINGLE-USE AND MULTIUSE LANDFARM)**

- ✓ The following analyses shall be performed. Samples shall be acquired, stored, handled, tested and reported in accordance with the required methodology and accepted scientific procedures. A laboratory certified for UST petroleum analyses pursuant to IAC 567-Chapter 83 shall test samples. The analysis shall utilize the most recent version of Method OA-1 (GCMS), "Method for Determination of Volatile Petroleum Hydrocarbons (Gasoline)," University of Iowa Hygienic Laboratory.
  - a. BTEX testing. The PCS shall be tested for benzene, toluene, ethylbenzene and xylene.
  - b. TEH-diesel testing. The PCS shall be tested for total extractable hydrocarbons.
  - c. MTBE testing. The PCS shall be tested for methyl tertiary-butyl ether unless prior analysis at the site, pursuant to IAC 567-Chapter 135.15(455B), has shown that MTBE is not present in the soil or groundwater.
  - d. Total metals testing. If the history of the petroleum contaminated site is known to have included solvents, batteries, leaded fuel, waste oil or a gas station in operation prior to 1985, then the PCS shall be tested for total Resource Conservation and Recovery Act (RCRA) metals.

## Section A

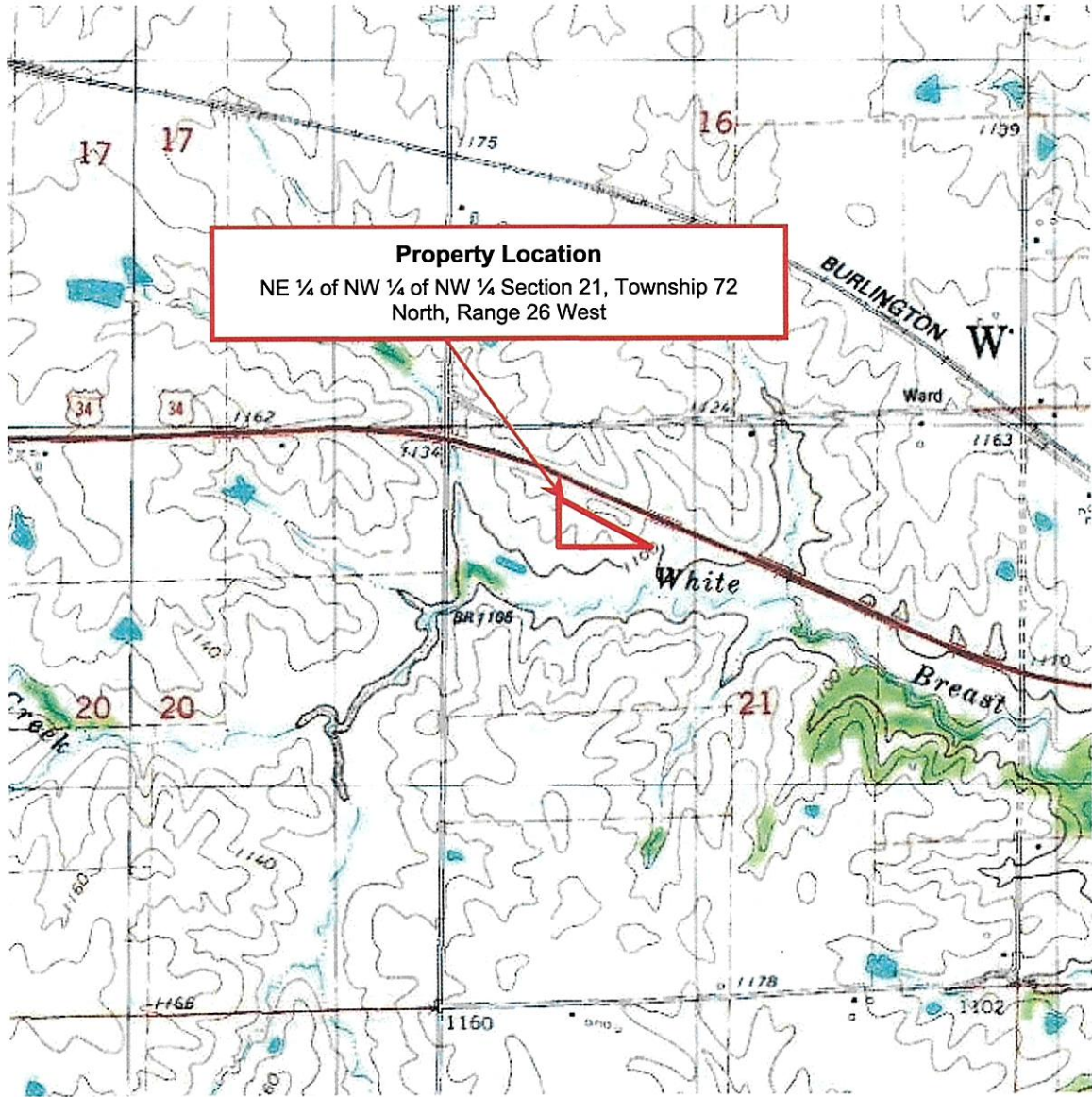
### Topographical Map of Landfarm

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**PROPERTY TOPOGRAPHIC MAP**  
**Section A**



North



**Property Topographic Map**

**Osceola Landfarm**  
Latitude: 41.025152°  
Longitude: -93.859437°



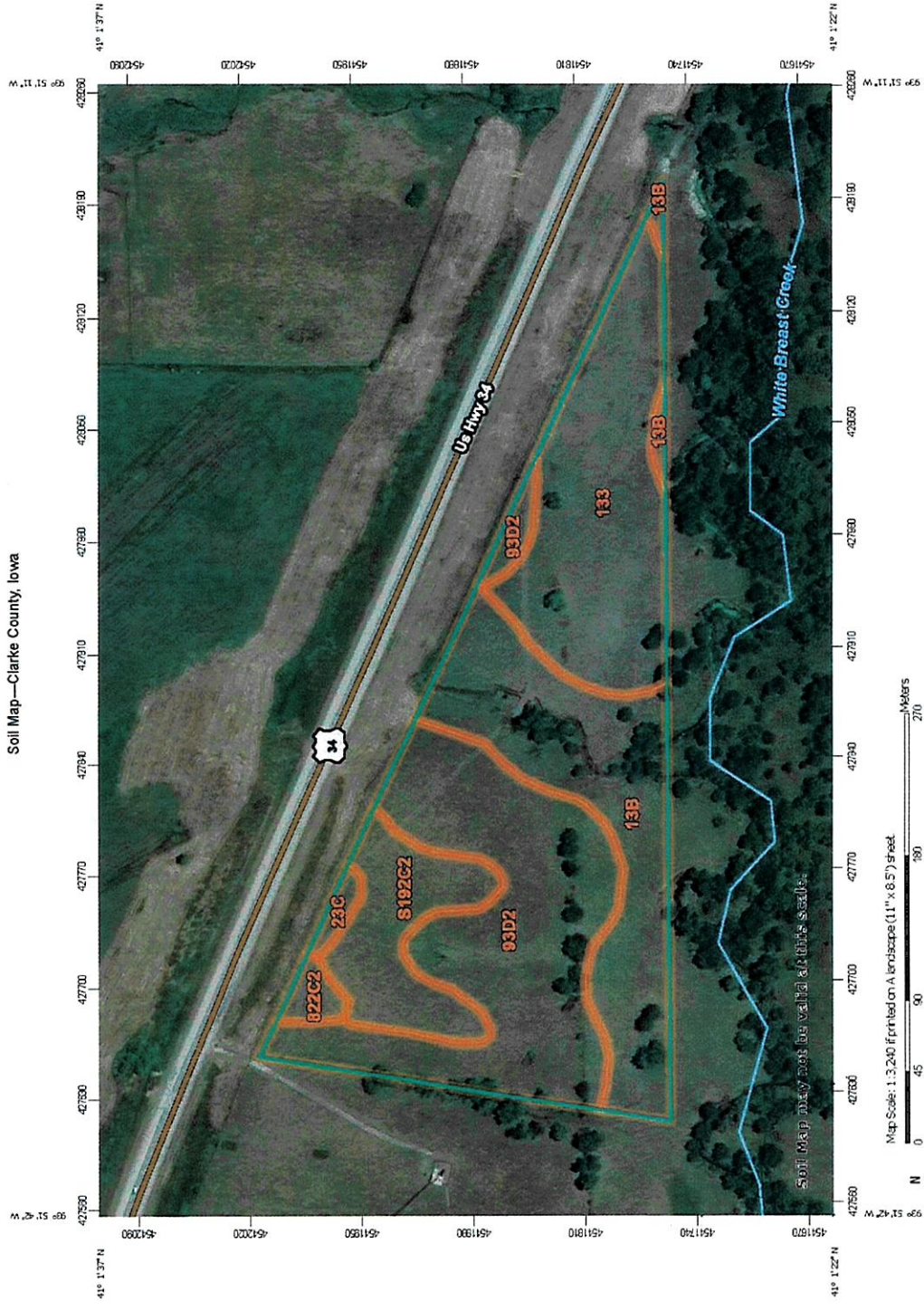
**Section B**

**Soil Map of Landfarm**

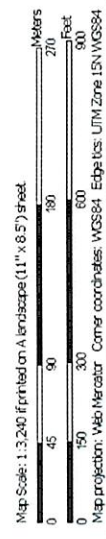
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Soil Map—Clarke County, Iowa



Soil map may not be valid at this scale.



**Property Soil Map - Section B**

Osceola Landfarm  
 Latitude: 41.025152°  
 Longitude: -93.859437°

Map courtesy of USDA NRCS Web Soil Survey



# PROPERTY SOIL MAP Section B



North

## MAP LEGEND

|                               |                       |
|-------------------------------|-----------------------|
| Area of Interest (AOI)        | Spoil Area            |
| <b>Soils</b>                  | Stony Spot            |
| Soil Map Unit Polygons        | Very Stony Spot       |
| Soil Map Unit Lines           | Wet Spot              |
| Soil Map Unit Points          | Other                 |
| <b>Special Point Features</b> | Special Line Features |
| Blowout                       | <b>Water Features</b> |
| Borrow Pit                    | Streams and Canals    |
| Clay Spot                     | <b>Transportation</b> |
| Closed Depression             | Rails                 |
| Gravel Pit                    | Interstate Highways   |
| Gravelly Spot                 | US Routes             |
| Landfill                      | Major Roads           |
| Lava Flow                     | Local Roads           |
| Marsh or swamp                | <b>Background</b>     |
| Mine or Quarry                | Aerial Photography    |
| Miscellaneous Water           |                       |
| Perennial Water               |                       |
| Rock Outcrop                  |                       |
| Saline Spot                   |                       |
| Sandy Spot                    |                       |
| Severely Eroded Spot          |                       |
| Sinkhole                      |                       |
| Slide or Slip                 |                       |
| Sodic Spot                    |                       |

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Clarke County, Iowa  
Survey Area Data: Version 24, Sep 7, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 26, 2012—Sep 28, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

### Property Soil Map

#### Osceola Landfarm

Latitude: 41.025152°

Longitude: -93.859437°



**PROPERTY SOIL MAP  
Section B**



North

**Map Unit Legend**

| Map Unit Symbol                    | Map Unit Name   | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 13B                                | Clmitz-Zook-Colo complex, 0 to 5 percent slopes                               | 5.0          | 26.4%          |
| 23C                                | Arispe silty clay loam, 5 to 9 percent slopes                                 | 0.2          | 1.0%           |
| 93D2                               | Shelby-Adair complex, 9 to 14 percent slopes, moderately eroded               | 6.5          | 34.7%          |
| 133                                | Colo silty clay loam, heavy till, 0 to 2 percent slopes, occasionally flooded | 4.7          | 25.0%          |
| 822C2                              | Lamoni clay loam, 5 to 9 percent slopes, moderately eroded                    | 0.3          | 1.5%           |
| S192C2                             | Adair clay loam, heavy till, 5 to 9 percent slopes, moderately eroded         | 2.1          | 11.3%          |
| <b>Totals for Area of Interest</b> |   | <b>18.8</b>  | <b>100.0%</b>  |

**Property Soil Map**

**Osceola Landfarm**

Latitude: 41.025152°

Longitude: -93.859437°

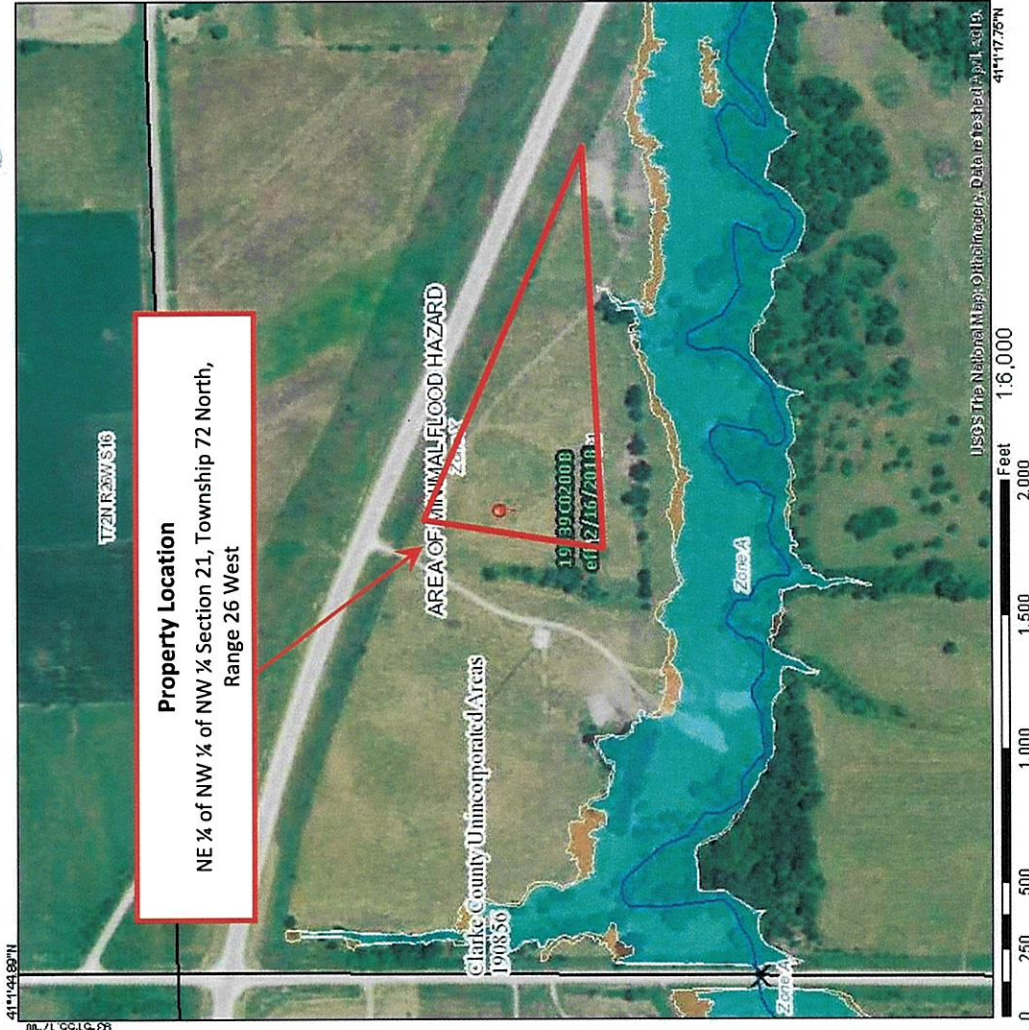


**Section C**

**100-Year Flood Plain Map**

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# National Flood Hazard Layer FIRMette



## Legend

SEE FIRM REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE) Zone A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
  - With BFE or Depth Zone A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Areas with Reduced Flood Risk due to Levees, Sea Walls Zone X
  - Area with Flood Risk due to Levees Zone X
- OTHER AREAS**
- Area of Minimal Flood Hazard Zone X
  - Effective LOMRS
  - Area of Undelineated Flood Hazard Zone X
- GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall

- OTHER FEATURES**
- Cross Sections with 1% Annual Chance
  - Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile, Baseline
  - Hydrographic Feature
- MAP PANELS**
- Digital Data Available
  - No Digital Data Available
  - Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

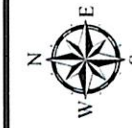
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/14/2010 at 3:25:55 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone label, legend, scale bar, map creation date, community identifiers, FIRL panel number, and FIRL effective date. Map images for unmapped or unincorporated areas cannot be used for regulatory purposes.

## 100-Year Flood Plain Map - Section C

Osceola Landfarm  
Latitude: 41.025152°  
Longitude: -93.859437°

Map courtesy of FEMA Flood Map Service Center



**Section D**

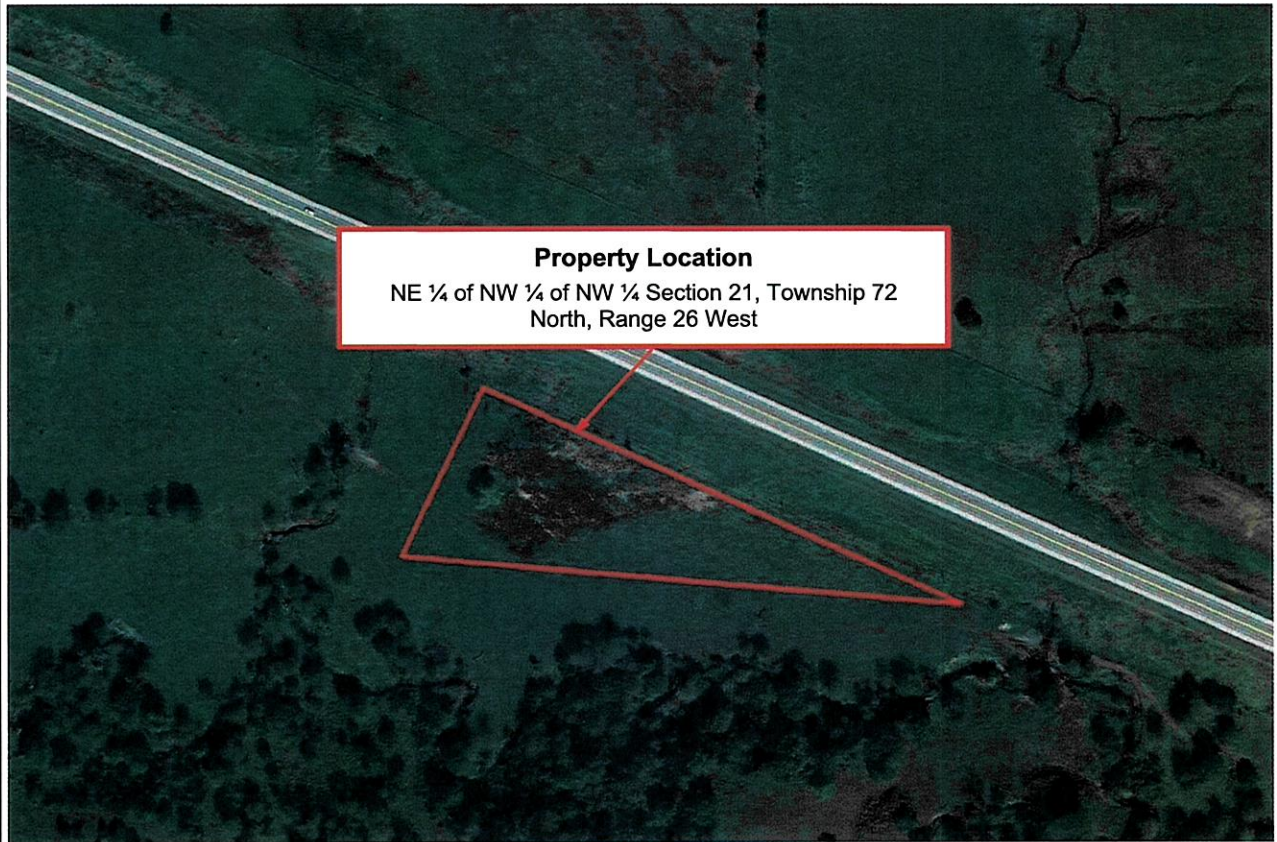
**Map of Landfarm to be Utilized**

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**PROPERTY LANDFARM PLOT TO BE UTILIZED MAP**  
**Section D**



North



**Property Location**  
NE ¼ of NW ¼ of NW ¼ Section 21, Township 72  
North, Range 26 West

**Property Landfarm Plot to be Utilized Map**

**Osceola Landfarm**  
Latitude: 41.025152°  
Longitude: -93.859437°



## **Section E**

### **Application Rate Calculations**

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Due to lack of analytics received from the lab at the time of application. A minimum rate of 1-inch during application was utilized



**Section F**

**Chemical Analysis of Petroleum Contaminated Soil**

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