



Site  
Investigation  
Report  
Review

SIRR Report  
for  
Unassigned Uncontrolled Sites

CON 12-15  
Doc #11861

SIRR ID O29-0001  
Site Name NPK SOIL SERVICE  
City Location Sperry  
Site Type Other  
County Des Moines

Screening Activity Initial Site Screening

**SITE INFORMATION**

Property Owner Dan Anliker  
Mailing Address 11723 Sperry Road  
Sperry IA 52650  
Location/Legal Description 11723 Sperry Road  
Sperry IA  
NW 1/4 of Section 13, Township 71, Range 3  
West of the 5th Principal Meridian  
Size Of Property 1 acre approx.  
Report Prepared By Corporate Environmental  
Report Submitted By Corporate Environmental

Date Report Submitted 05/31/2001

Current Usage retail agchem facility

**REPORT INFORMATION SUMMARY**

**I. Summarize the data submitted (no., type, depth of soil borings, surface samples, ground water samples, other sampling conducted, analyses performed, contamination identified, etc.)**

In the third and fourth quarters of 2001, the site owners excavated approximately 1,888 cubic yards of in-situ soil to satisfy a Tier II LUST condition. After site remediation for the LUST program, 41 soil samples were taken at the site. These samples were from borings using a 24 inch long split barrel sampler and collected from depths of 1, 3, 6, and 10 feet below ground surface. Each soil sample, for the purposes of the Contaminated Sites Section, was analyzed for nitrate and ammonia. Nitrate detections ranged between 1.68 mg/kg and 20.6 mg/kg. None of the samples contained amounts above the state corrective level of 130,000 mg/kg for nitrate. The amounts of ammonia detected ranged between 9.95 mg/kg and 943 mg/kg. Groundwater samples were taken from 10 monitoring wells already installed during the Tier II investigation. The samples were analyzed for nitrate and ammonia. None of the samples detected amounts above the state corrective level of 150 mg/l for ammonia and/or 56 mg/l for nitrate. The hydraulic conductivity was measured at 0.173 m/day, classifying the groundwater as a non-protected source.

**II. Summarize the site history (past usages, known or suspected contamination pathways such as tanks, S.W. burial, septic tank/tile field, lagoon, land application, etc.)**

The property is operating as an anhydrous ammonia liquid/dry chemical, and liquid/dry fertilizer site. Prior to the farm supply



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operations, there had been a ready mix cement plant and prior to that, the property was railroad ground. Twenty aboveground storage tanks are located on the subject property. The anhydrous ammonia tank is a 30,000-gallon tank and there are two (2) 5,500-gallon liquid fertilizer tanks. As of 1999 no Risk Management Plan had been developed for the 30,000-gallon anhydrous ammonia tank. There have been no reported spills on the property itself, but there was a small spill on the road just north of the property.

### III. Summarize the other relevant information (include what may have been learned or known from sources other than the report itself, such as DNR files)

An initial site reconnaissance of the property, prior to the Tier II report, showed soil stained areas all around the property. Forty-eight soil borings were drilled and water samples were taken at or near the stained areas. All the samples were tested for pesticides, nitrate nitrogen, anhydrous ammonia and petroleum compounds. Benzene, nitrate and ammonia were the contaminants found to be above a state corrective level. A Tier II evaluation was performed to address the high risk due to an on-site drinking water well classification with regards to the petroleum contaminant.

### REVIEW SUMMARY

Contaminant Type Ag Chemical & Petroleum

#### I. Summarize your findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values known criteria such as water quality standards, MCLs, established cleanup levels, background or any other relevant or useful benchmarks used to determine the site's priority.

For soil, nitrate amounts ranged between 1.68 mg/kg and 20.6 mg/kg and ammonia ranged between 9.95 mg/kg and 943 mg/kg. None of the samples detected amounts of nitrate above the state corrective level of 130,000 mg/kg. For groundwater none of the samples detected amounts above the state corrective level of 150 mg/l for ammonia and/or 56 mg/l for nitrate. The measured hydraulic conductivity was 0.173 m/day, classifying the groundwater as a non-protected source.

#### II. Summarize the potential or actual impacts of the contamination. What is known about the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there wells in the area that could be potentially impacted? Are there identified contaminant pathways such as water or sewer lines, drain tiles, or fissures? Identify any other use/location issues that deserve consideration in any priority assignment.

The property to the north is an agricultural field and has a fuel aboveground storage facility. The property to the south is a farm field. The property to the east is a farm field and to the west is an elevator. The closest public well is 1/8 of a mile west of the subject property on the United States Gypsum Plant in Sperry, Iowa. There are plastic water lines within 200 feet of the benzene source which have been addressed and satisfied in a Tier II report for the LUST section of the Iowa DNR. There were two wells of concern in the Tier II investigation but both have been ruled out as receptors of concern. The first well has been abandoned and the second is at least 112 feet in depth, far below any remaining contaminated groundwater.

#### III. Summarize any other information, knowledge, or reasoning used in determining your recommendation regarding the priority assigned to this site.

This facility has completed remediation activities that satisfy the Tier II rules for the petroleum issue onsite. As a result of the work done for the Tier II requirement, the nitrate and ammonia concentrations onsite have been significantly reduced. The water well onsite has been determined to be abandoned and filed with the state and the water well offsite is deep enough that any negative impact is unlikely. This site is recommended for a no action under CERCLA at this time. No further state action is also recommended.

### PRIORITY LEVEL



## Site Investigation Report Review

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Site Name NPK SOIL SERVICE

Priority Level 4

### PROGRAM AUTHORITY REFERRAL

Program Authority Referral No Further Action

Other Referral

ISS/Form Completed By Piper Sullivan

ESS Completed By

Form Reviewed

A handwritten signature in black ink, appearing to read 'Cal Lally'.

Date ISS Completed

Date ESS Completed

Date Completed

Date Reviewed

5/30/02

# PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Piper Sullivan  
 (Name/Title) (Date)  
Wallace State Office Buidling 1-515-242-5084  
 (Address) (Phone)  
piper.sullivan@idnr.state.ia.us  
 (E-mail Address)

Site Name: NPK Soil Service

Previous Names (if any): none

Site Location: 11723 Sperry Road  
 (Street)  
Sperry IA 52650  
 (City) (ST) (Zip)

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Compare the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance release have occurred, EPA approved risk assessment completed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please explain all "yes" answer(s), attach additional sheets if necessary:

6) The contaminants are petroleum products which are regulated under a statutory exclusion.

(8) Tier II for IDNR LUST section completed and passed. Onsite water well has been abandoned and plugged. Nitrate and Ammonia Concentrations falling each year.

Site Determination: ☐ Enter the site into CERCLIS. Further assessment is recommended (Explain below).  
☒ The site is not recommended for placement into CERCLIS (Explain below).

**DECISION/DISCUSSION/RATIONALE:**

The Iowa Department of Natural Resources, Contaminated Sites Section is recommending this site for a no action at this time. Nitrate and Ammonia levels at the site are reflective of background levels for the state.

Regional EPA Reviewer:

Print Name/Signature

Date

State Agency/Tribe:

Print Name/Signature

Date



## REGION VII U.S. EPA SUPERFUND

## PRE-CERCLIS INITIATION FORM

NO EPA ID

NO DISCOVERY DATE

NPL Status = O-NOT A VALID SITE OR INCIDENT

Site Name: NPK Soil Service

Initiated Date 05/31/2001

Initiated By: ☐ Removal ☒ Site Assessment

Address: 11723 Sperry Road

County Name: Des Moines

City, State, Zip: Sperry IA 52650

State ID (if one exists): 029-0001

Congressional District: unknown

NPL Status: = ☐ Not a Valid Site or IncidentFederal Facility? ☐ Yes ☒ No

Section: ☐ C-(SACR) Site Assessment/Cost Recovery Branch ☒ L-(EFLR) Enfr/Fund Lead RV Branch ☐ F-(FFSE) Federal Facilities/Special Emphasis Branch  
☐ M-(MOKS) MO/KS remedial Branch ☐ I-(IANE) IA/NE Remedial Branch ☐ O-(ER&R) Emergency Response & RV Branch

List Site Alias Name (s): none

Directions to Site: see attached directions and maps

Site Description: retail ag-chem facility

Site Size: approximately 1

Site Dimension: ☒ Acres ☐ Square Feet ☐ Square Miles ☐ Miles  
☐ Feet

USGS Quadrant:

USGS Hydro Unit:

Latitude: 40.95333 Longitude: 91.15555  
 (Decimal Degree format)

Lat/Long Accuracy: ☒ Seconds ☐ Miles ☐ Feet  
☐ Degrees ☐ Minutes ☐ Kilometers ☐ Meters

Lat/Long Source: ☐ EPA Region 7 ☐ EPIC  
☐ Regulated Entity ☐ Private ☐ Geograph  
☐ SNAP ☐ Other ☐ Other Fed Agency  
☐ Contractor ☐ EPA HQ

Owner ☐ Bank/Loan Company ☐ Indian Lands  
 Operator ☐ County Owned ☐ Other  
 Type ☐ District Owned ☒ Private  
 (choose 1): ☐ Federally Owned ☐ Mixed Ownership  
☐ Former Federally Owned or Operated ☐ State Owned  
☐ Government Owned/Contractor Operated ☐ Trustee, Federal  
☐ Privately Owned/Government Operated ☐ Trustee, State  
☐ Property Defaulted Back to Government  
☐ Municipality

Operational Status: ☒ Active ☐ Inactive ☐ UnknownIncident Type: ☐ Non-Oil Spill ☐ Oil Spill ☒ Unknown

Non-NPL Status (Choose one):

Protect: ☐ Yes ☒ No  
☐ Not a Valid Site or Incident  
☐ Not a Valid Site or Incident: RCRA Lead  
☐ Not a Valid Site or Incident: NRC Lead  
☒ Not a Valid Site or Incident: State Lead  
☐ Not a Valid Site or Incident: Tribal Lead

Add Action: OU 00

☐ PRE-CERCLIS SCREENING Planned Complete: 05/01/2002

Actual Complete: 05/15/2002

Lead code (choose one):

☐ F-EPA Fund Financed ☐ FF - Federal Facility ☒ S - State, Fund Financed

SCAP Note:

Comment: ☐ Site or ☐ Action:

Signatures:

State:

Date: 5/31/02 RPM/OSC/SAM:

Date: / /

Site Type (Choose all that apply - for every main category chosen in bold at least one sub-category must be selected; if more than one main and sub category is selected indicate which is primary):

Primary designation:

- ☐ **MP-Manufacturing/Processing/Maintenance - Applicable sub-categories:**  
☐ CA-Chemicals and allied products  
☐ CG-Coal gasification  
☐ CP-Coke production  
☐ **EP-Electric power generation and distribution.**  
☐ EE-Electronic/electrical equipment  
☐ FT-Fabrics/textiles  
☐ LW-Lumber and wood products/pulp and paper  
☐ WP-Lumber and wood products/wood preserving/treatment  
☐ MF-Metal fabrication/finishing/coating and allied industries  
☐ OR-Oil and gas refining  
☐ OP-Ordnance production  
☐ PR-Plastics and rubber products  
☐ PM-Primary metals/mineral processing  
☐ RA-Radioactive products  
☐ T A-Tanneries  
☐ TS-Trucks/ships/trains/aircraft and related components  
☐ **MI-Mining - Applicable sub-categories**  
☐ CO-Coal ☐ ME-Metals  
☐ NM-Non-metal minerals ☐ OG-Oil and Gas  
☐ **WM-Waste Management - Applicable sub-categories**  
☐ CL-Co-disposal landfill (municipal and industrial)  
☐ ID-Illegal disposal/open dump  
☐ IF-Industrial waste facility (non-generator)  
☐ IL-Industrial waste landfill  
☐ MD-Mine tailings disposal  
☐ ML-Municipal solid waste landfill  
☐ RW-Radioactive waste treatment, storage, disposal (non-generator)  
☒ **OT-Other - Applicable sub-categories**  
☐ AG-Agricultural (e.g., grain elevator)  
☐ CS-Contaminated sediment site with no identifiable source  
☐ DC-Dust control  
☐ GP-Ground water plume site with no identifiable source  
☐ MO-Military/Other Ordinance  
☒ PS-Product storage/distribution  
☐ RD-Research, development, and testing facility  
☐ RC-Retail/commercial  
☐ SE-Spill or other one-time event  
☐ TP-Transportation (e.g., railroad yards, airport, barge docking, site)  
☐ TW-Treatment works/septic tanks/other sewage treatment  
☐ **RE-Recycling - Applicable sub-categories**  
☐ AT-Automobiles/tires  
☐ DT-Drums/tanks ☐ WO-Waste/used oil  
☐ BS-Batteries/scrap metals/secondary smelting/precious metal recovery  
☐ CC-Chemicals/chemical waste (e.g., solvent recovery)


[< Back](#)
[SEND TO](#)

## FROM:

502 E 9th St  
Des Moines, IA  
50319 US

## TO:

11723 Sperry Rd  
Sperry, IA  
52650 US

Total Distance: 176.97 miles

Total Estimated Time: 3 hours, 21 minutes

## DIRECTIONS

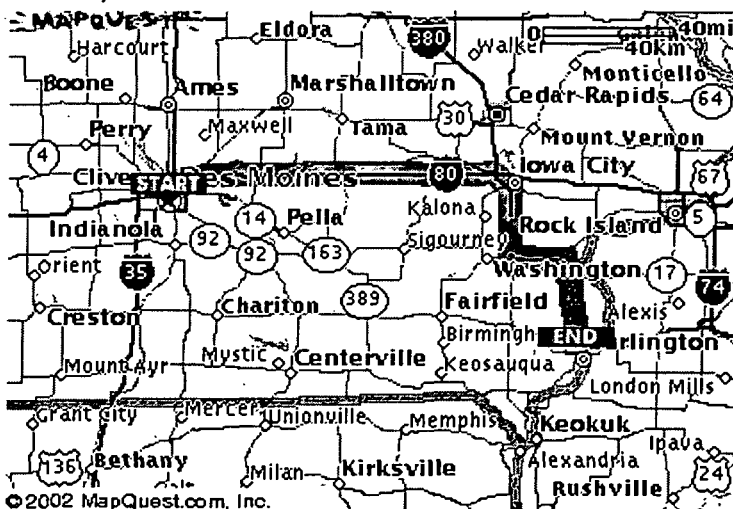
- 1: Start out going West on DES MOINES ST towards PENNSYLVANIA AVE by turning left.
- 2: Turn RIGHT onto PENNSYLVANIA AVE.
- 3: Take the I-235 E ramp.
- 4: Merge onto I-235 E.
- 5: Take the I-80 E exit towards DAVENPORT.
- 6: Merge onto I-80 E.
- 7: Take the US-218 S exit- exit number 239A- towards MT PLEASANT/KEOKUK.
- 8: Merge onto US-218 S.
- 9: Turn LEFT onto IA-92.
- 10: Turn SLIGHT RIGHT onto US-61.
- 11: Turn LEFT onto CR-H40.

Total Estimated Time:

3 hours, 21 minutes

## DISTANCE

0.09 miles  
0.11 miles  
0.10 miles  
4.79 miles  
0.18 miles  
100.60 mi  
0.47 miles  
29.58 mile  
17.92 mile  
22.39 mile  
0.76 miles  
Total Dist  
176.97 mi



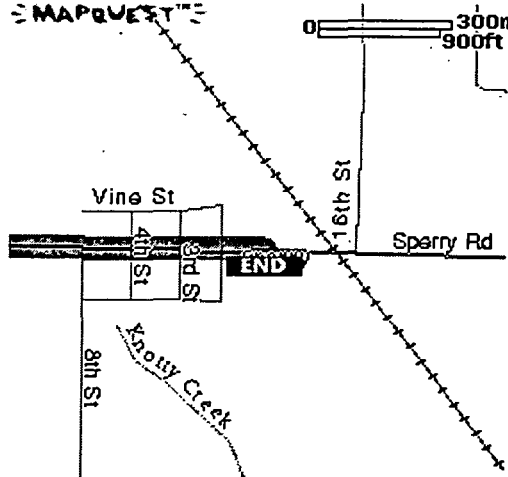
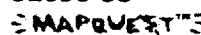
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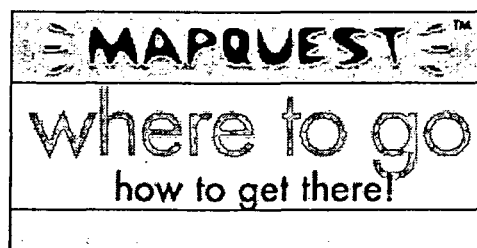
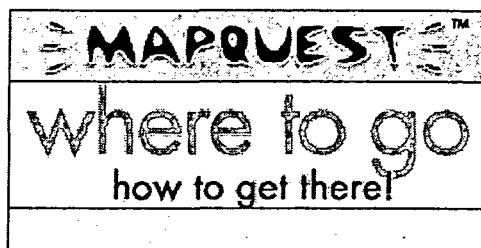
## DESTINATION:

11723 Sperry Rd  
Sperry, IA  
52650 US



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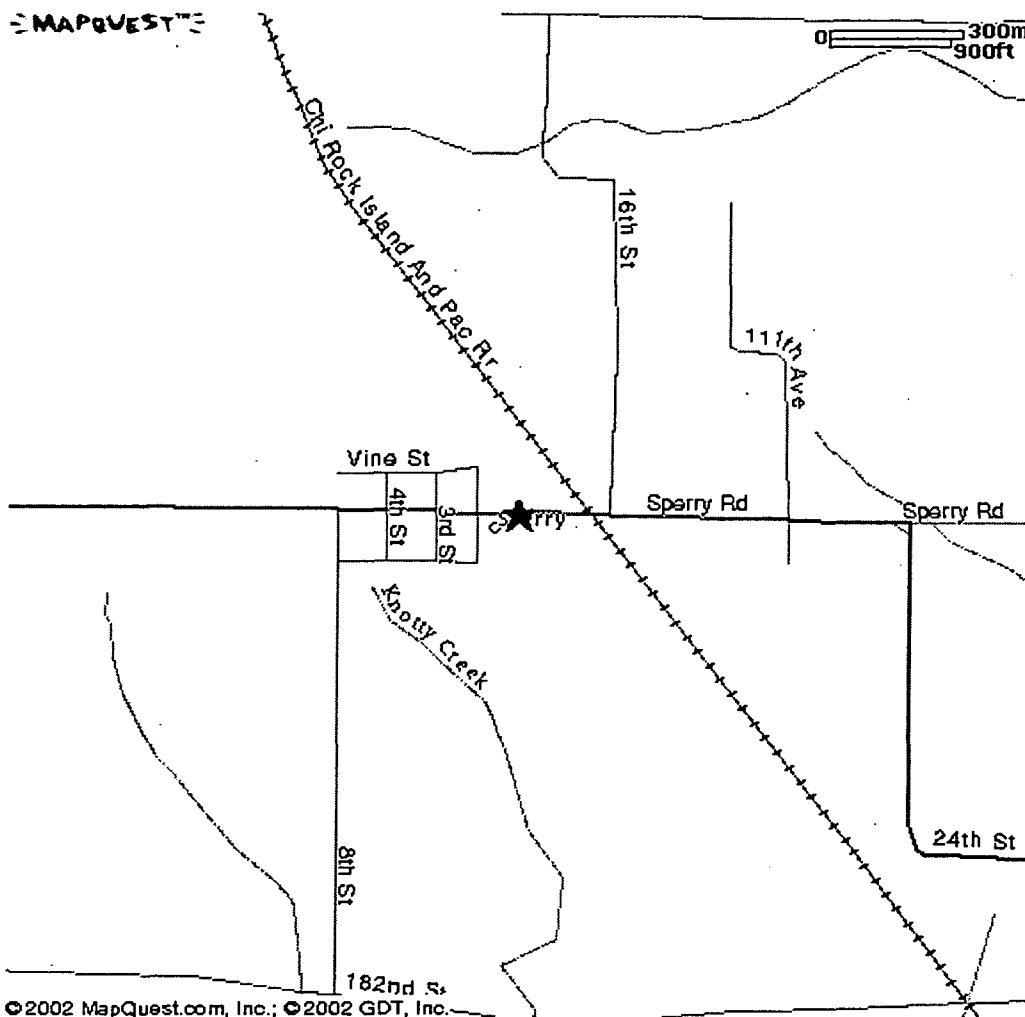
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# MAPQUEST.

11723 Sperry Rd  
Sperry, IA  
52650-9705, US

**SEND TO PRINTER**

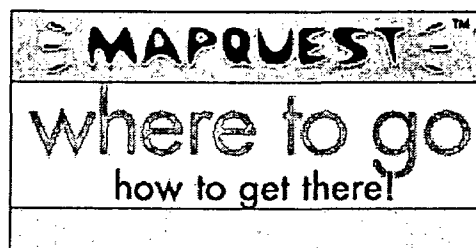
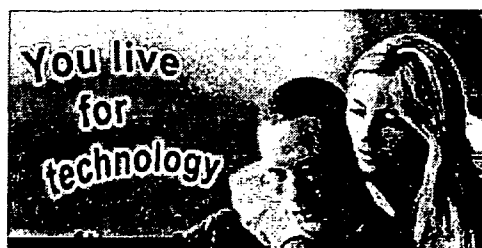
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**NAVTECH**  
ON BOARD



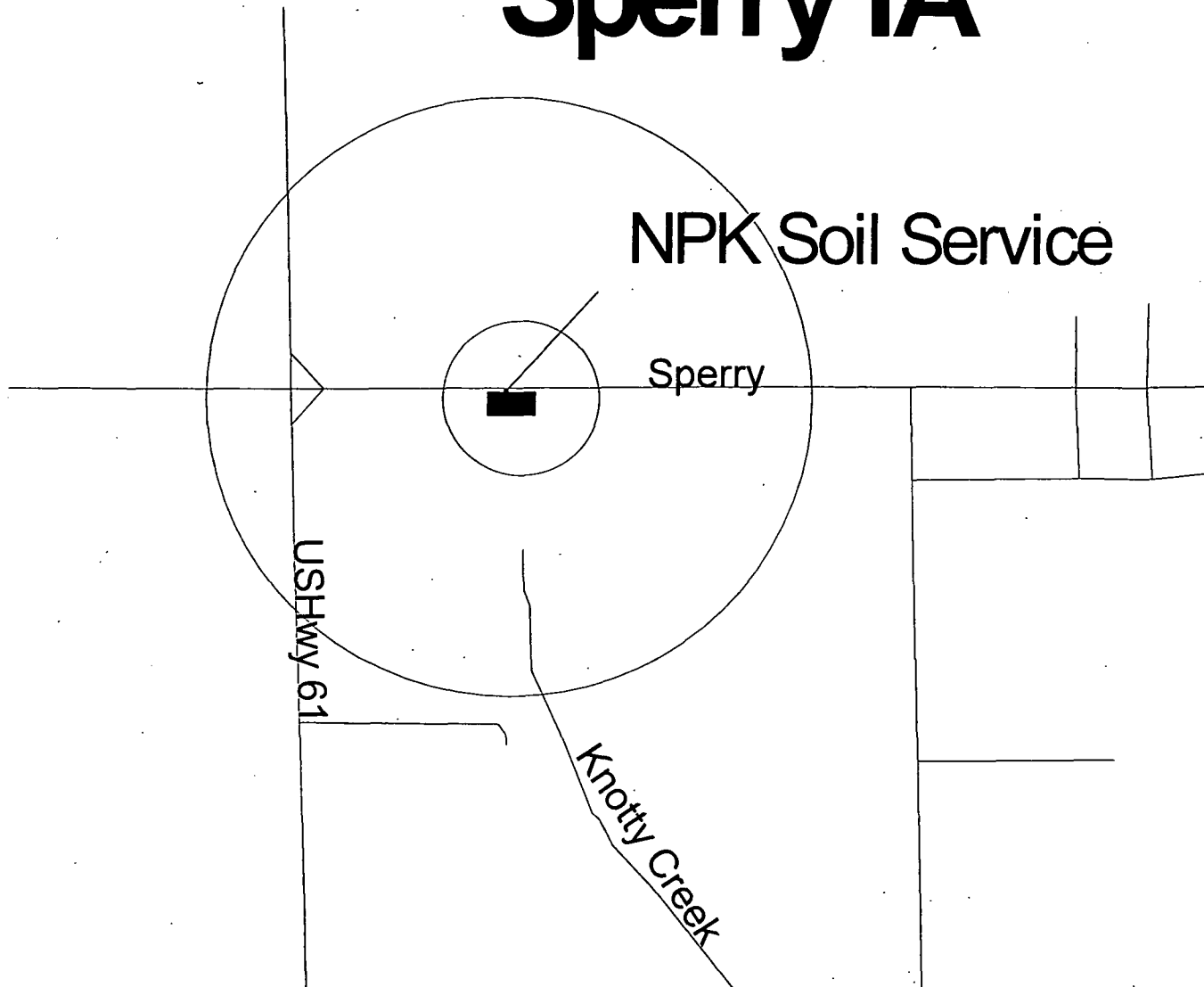
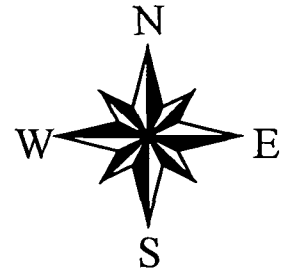
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# NPK Soil Service Sperry IA



-  Privwell
-  Abandoned
-  Rivers29
-  Roads29
-  Incorp
-  County