



Site
Investigation
Report
Review

SIRR Report
for
Unassigned Uncontrolled Sites

SIRR ID O34-0002
Site Name FARMERS COOP, ROCKFORD
City Location Rockford
Site Type Other
County Floyd

Screening Activity	Initial Site Screening
--------------------	------------------------

SITE INFORMATION

Property Owner Steve Bodensteiner
Mailing Address P.O. Box 38
Marble Rock, Iowa 50653
Location/Legal Description 804 First Avenue Northwest
Rockford, Iowa
T95N, R18W, Sec. 10, NW1/4, SE 1/4, SW 1/4
Latitude 43.061
Longitude 92.9586

Size Of Property 68 acres

Report Prepared By Seneca Environmental Services
Report Submitted By Seneca Environmental Services

Date Report Submitted 07/09/2002
Current Usage Cooperative/Inactive

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.)

Tier 2 Site Clean-up Report, May 2000*

BH1/MW1, BH/MW2, and BH4/MW4 were installed to determine the extent of groundwater contamination at the spill location. BH3/MW3 was installed as an upgradient background well. BH5 was drilled at the edge of the surface-stained area. BH6/MW5 was installed downgradient of the impacted groundwater identified in BH2/MW2 and BH7/MW6 was installed downgradient of the impacted groundwater identified in BH1/MW1. BH5 and BH8 were drilled to determine soil concentrations in the area of release. The remaining wells and borings were drilled for plume definition.

*Information in the Tier 2 Report was gathered from prior site clean-up reports and site monitoring reports conducted at the site prior to 2000.



Site Investigation Report Review

SIRR ID O34-0002
Site Name FARMERS COOP, ROCKFORD

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.)

From 1930 to 1976, based on an interview with a local citizen, the site was owned by Iowa Northern Railroad (formerly Rock Island Railroad) and served as a petroleum bulk facility. The number of aboveground storage tanks (AST) on site is unknown.

From 1976 to 1982, Iowa Northern Railroad leased the site to Sun Oil Co. On-site, there were 1-1,000 gallon AST and 4- or 5-10,000 gallon ASTs which stored diesel and gasoline.

From 1982 to 1988, Iowa Northern Railroad leased the site to Farmer's Cooperative. On-site, there were approximately 13 ASTs. The ASTs ranged in size from 550 gallons to 30,000 gallons and stored diesel and gasoline products.

From 1988 to 1996, Farmer's Cooperative was the owner and operator of the facility. On-site, there were five ASTs. The ASTs ranged in size from 550 gallons to 30,000 gallons.

A spill occurred at the site in October 1991. A recovery trench was installed to intercept product. Over-excavation and a groundwater pump and treat system were initiated at the site. The pump and treat system was shut down in November 1996. No free product has been observed in any of the monitoring or recovery wells since system shut down.

Additionally, monitoring wells were installed to monitor petroleum impact on the groundwater. Semi-annual monitoring was required at the site in 1997. Site monitoring reports were submitted to the Department from May 1997 to January 2000. In May 2000, the responsible party elected to conduct a Tier 2 Investigation at the site.

The Tier 2 Investigation of May 2000 identified drinking water wells as an actual receptor and monitoring well MW5 as the source well for benzene.

As of 2002, the site is inactive and no underground storage tanks exist at the site; however, there are several aboveground storage tanks on site. Each aboveground storage tanks is equal to or less than 500 gallons.

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)

The site is located in the flood plain between the Winnebago and Shell Rock Rivers. Approximately three feet of topsoil covers the medium grained sand to gravel sediments of alluvial origin which persist to 35-45' below grade. Groundwater was encountered within the alluvial sediments. The depth to the unconfined saturated zone ranges from 27.85' to 30.87' below grade.

The properties to the south and east of the site are residential properties. The properties to the west and north are agricultural.

Sampling of the following groundwater monitoring wells has been terminated:
MW3, MW4, MW9, MW12

The following groundwater monitoring wells have not been located since 1999:
MW7, MW8, MW10

REVIEW SUMMARY

Contaminant Type Petroleum



Site Investigation Report Review

SIRR ID O34-0002

Site Name FARMERS COOP, ROCKFORD

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.

Tier 2 Site Clean-up Report, May 2000

Soil sample BH8 exhibited levels of petroleum contamination at 2' and 5'. Soil sample BH8 was collected on 11/20/91.

At two feet-

Benzene	70.9 mg/kg
Toluene	532 mg/kg
Ethylbenzene	104 mg/kg
Xylene	575 mg/kg
TPH	3,650 mg/kg

At five feet,

Benzene	6.8 mg/kg
Toluene	260 mg/kg
Ethylbenzene	88.1 mg/kg
Xylene	497 mg/kg
TPH	27,000 mg/kg

The Iowa Administrative Code, chapter 135 soil standards are as follows:

Benzene	0.54 mg/kg
Toluene	42 mg/kg
Ethylbenzene	13 mg/kg
Xylene	N/A
Diesel	1,200 mg/kg
Waste Oil	N/A

Groundwater contamination was identified in monitoring wells MW1, MW2, MW5, MW6, and MW7

ug/L	MW1	MW2	MW5	MW7
Benzene	68.5	53.7	244	207
Toluene	1220	290	73	<2
Ethylbenzene	300	216	213	<2
Xylene	8470	1890	1620	<3

Samples from monitoring wells MW1 and MW5 were collected on 10/20/99

Sample from monitoring well MW7 was collected on 4/9/99

Sample from monitoring well MW2 was collected on 4/20/00

The Iowa Administrative Code, chapter 135 groundwater standards for a protected groundwater source are as follows:

Benzene	5 ug/L
Toluene	1000 ug/L
Ethylbenzene	700 ug/L
Xylene	10,000 ug/L
Diesel	1,200 ug/L
Waste Oil	400 ug/L



Site Investigation Report Review

SIRR ID O34-0002

Site Name FARMERS COOP, ROCKFORD

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.

Tier 2 Site Clean-up Report, May 2000

There is a drinking water well, Trettin well, within a 1000' radius of the facility. The Trettin well is a private, residential, drinking water well used for household use and to provide water for livestock. It is approximately 816' bgs. In 1976, this well was used as a back-up municipal well. Constant pumping of the well caused no noticeable decrease in static water level. A water sample was collected from the Trettin well in May 1996. Results indicated an absence of petroleum compounds above laboratory detection limits.

In 1996, monitoring wells MW3, MW10, MW11, and RW3 were used to determine the hydraulic conductivity at the site. The hydraulic conductivity was as follows: 4.12 m/d at MW3, 121.61 m/d at MW10 and MW11, and 0.09 m/d at RW3. Thus, the site has been classified as a protected groundwater source. A protected groundwater source is an area in which is capable to install a drinking water well because the flow of groundwater is sufficient for water use.

Groundwater flow is based on averaging the flow direction from four different flow maps previously submitted. Based on this average, groundwater flow is southeast.

There are two plastic water lines within a 200' radius of the site. Their approximate burial depth is between 5.5' to 6' deep, 24' above groundwater. No water samples have been collected or analyzed from the plastic water lines for possible petroleum impact.

A surface water body was found to exist within 500' of the site. According to the consultant, no residue or sheen on the surface of the water was observed.

There are approximately three basements within a 500' radius of the facility. The approximate burial depth of the basements are 10-20' above groundwater. Explosive vapor sampling was conducted at the sanitary sewer, the Palmer residence basement, Stadlander residence basement, and Farmer's Coop basement. Explosive vapors were not detected.

Free product was observed at the site immediately following the 1991 spill; however, soil excavation was conducted at the site after the spill. The site was overexcavated in NH5 and BH8 vicinity, see map attached. Also, after the spill, a groundwater pump and treat system was installed. Groundwater remediation consisted of recovered product that was directed to an air stripper, then finished in a carbon-polishing unit. Effluence was directed upgradient to an injection well. The project was approved by the Department in April 1992. The system was turned off in November 1996.

Additionally, bi-annual monitoring has been conducted since 1991.

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

Though standards were exceeded for drinking water well receptor, the actual receptor, Trettin well, does not seem to be a threatened due to the distance from the site and the direction of groundwater flow. Additionally, the water sample collected and analyzed from the Trettin well did not show adverse impact. Petroleum concentrations are below applicable Tier 1 standards to require further monitoring for the plastic water line receptors. Therefore, no further action is necessary at the site.

PRIORITY LEVEL



Site Investigation Report Review

SIRR ID O34-0002

Site Name FARMERS COOP, ROCKFORD

Priority Level 3

PROGRAM AUTHORITY REFERRAL

Program Authority Referral No Further Action

Other Referral Chapter135

ISS/Form Completed By Jessica R. Montana

ESS Completed B

Date ISS Completed

Date ESS Completed

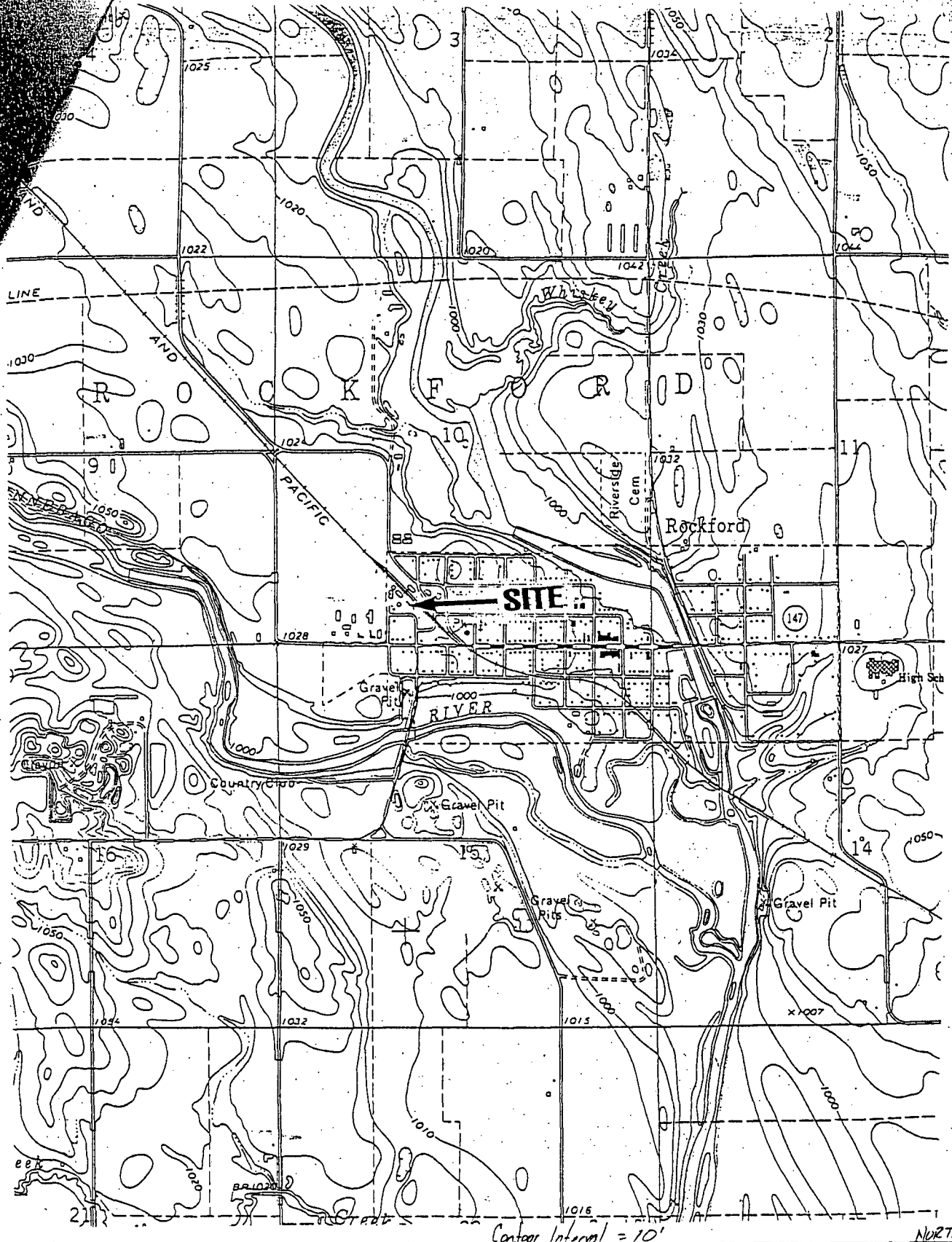
Date Completed

Form Reviewed

A handwritten signature in black ink, appearing to read 'Cal Lundberg', written over the printed text 'Form Reviewed'.

Date Reviewed

2/23/05



Contour Interval = 10'

NORTH ↑

Seneca Environmental Services

Date: March 16, 2000

Farmer's Cooperative
Rockford, Iowa

Spill #43-10051-
DH-2345

Topographic Site Map

Seneca Job #6849307

Scale: 1" = 2000'

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: Jessica Montana, Environmental Specialist February 23, 2005
(Name/Title) (Date)
900 E. Grand Avenue, Des Moines, Iowa 50319 515-281-8934
(Address) (Phone)
jessica.montana@dnr.state.ia.us
(E-mail Address)

Site Name: Farmer's Coop, Rockford

Previous Names (if any): _____

Site Location: 804 First Avenue Northwest
(Street)
Rockford IA 50468
(City) (ST) (Zip)
Latitude: 43.061 **Longitude:** 92.959

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 type="checkbox"/>	<input checked="" type="checkbox"/>

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

Petroleum contamination has been identified at the site due to a 5,300 gallon gasoline spill that occurred in October 1991.

- Site Determination: Enter the site into CERCLIS. Further assessment is recommended (Explain below).
 The site is not recommended for placement into CERCLIS (Explain below).
 Further assessment is recommended under PRE-CERCLA (Explain below).

DECISION/DISCUSSION/RATIONALE:

The actual receptor, the private drinking water, does not seem to be a threatened due to the distance from the site and the direction of groundwater flow. Petroleum concentrations are below applicable Tier 1 standards to require further monitoring for the plastic water line receptors. Therefore, no further action is necessary at the site.

Regional EPA Reviewer:

Print Name/Signature

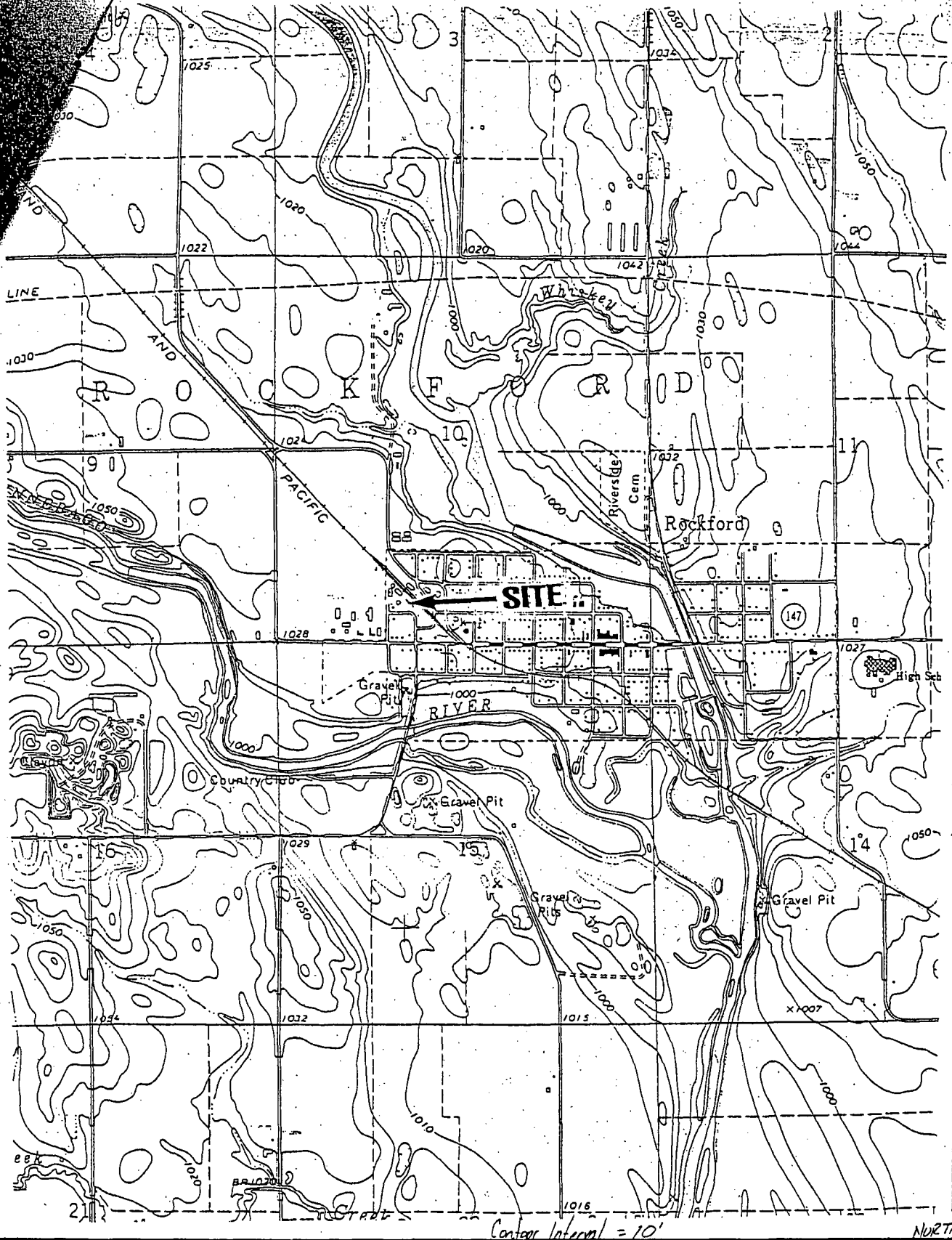
Date

State Agency/Tribe:

Print Name/Signature

Date

CAL LUNDGREN *[Signature]* 2/23/05



Contour Interval = 10'

NORTH ↑

Seneca Environmental Services

Date: March 16, 2000

Farmer's Cooperative
Rockford, Iowa

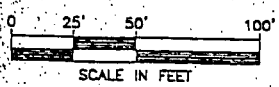
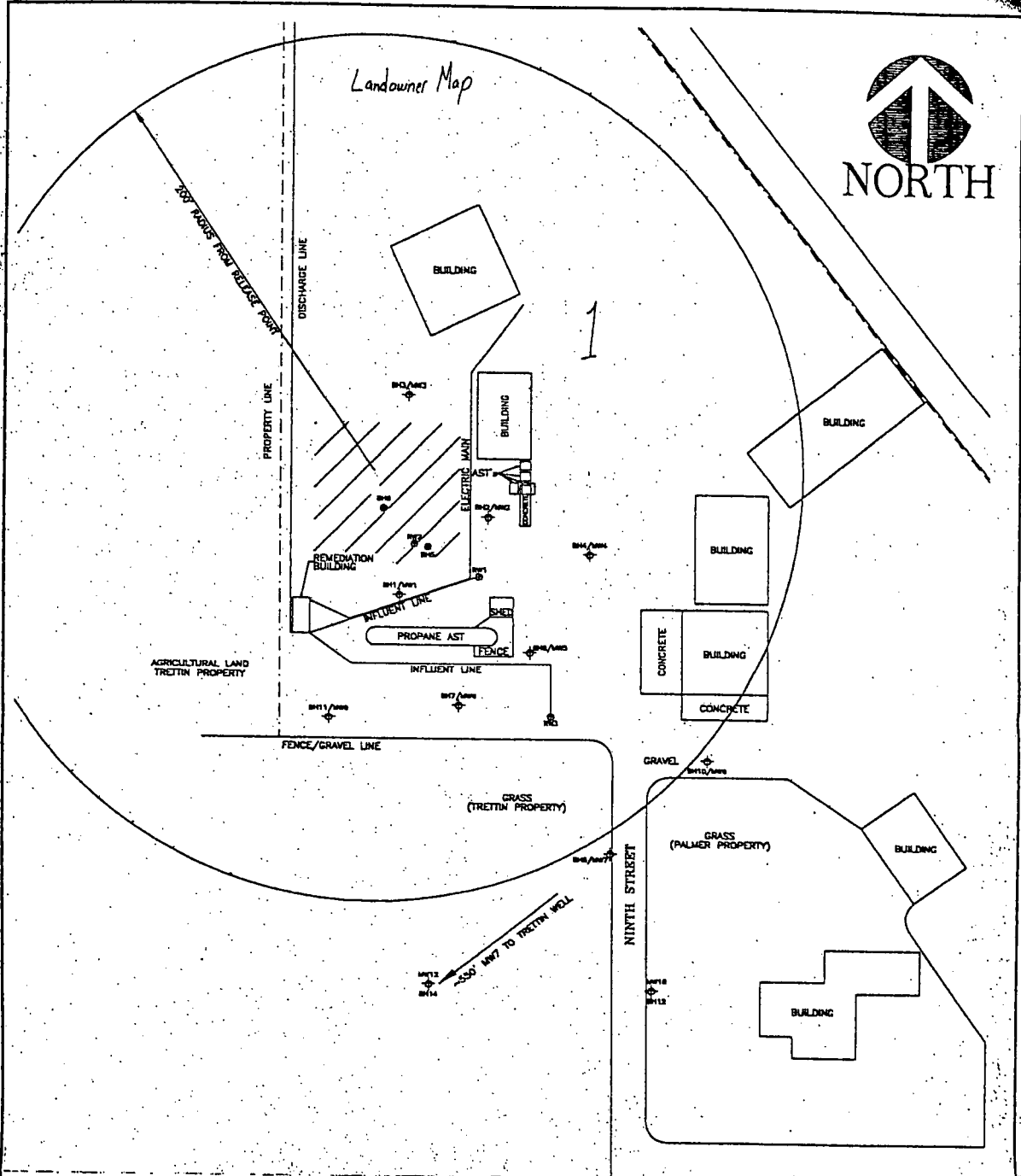
Spill #43-10051-
DH-2345

Topographic Site Map

Seneca Job #6849307

Scale: 1" = 2000'

Landowner Map



LEGEND:

- ⊕ Monitoring Well Location
- Borehole Location
- Recovery Well Location
- Property Line
- ▨ Boundaries of Drainscavation
Total Depth of Excavation = 20'

JOB NO. DATE DRAWN BY CHECKED BY APPROVED BY SENECA ENVIRONMENTAL SERVICES FARMERS COOPERATIVE 804 NORTH WEST 1ST STREET ROCKFORD, IOWA	<p>SENECA ENVIRONMENTAL SERVICES</p>	This drawing and all parts thereof is the exclusive property of Seneca Environmental Services, ACSI, INC. 1426 University of Iowa Highway, Iowa City, IA 52242 (319/244-2500) and shall remain the property of Seneca Environmental Services, ACSI, INC.		NO. OF SHEETS _____
				SHEET NO. _____

REGION VII U.S. EPA SUPERFUND

SITE DISCOVERY ENTRY FORM

Discovery Date: 2/10/05

Discovery Lead (choose one):

- F-EPA Fund Fin X S-State Fund Fin FF-Fed Fac EP-EPA-In-house TR Tribal Lead - Fund Fin FUD Site

Site Name: Farmer's Coop, Rockford

Initiated Date: 05/01/2000

- Identified By: Removal X Site Assessment States Fed. Facilitie Brownfields Other Fed. Agency

Address: 804 First Avenue Northwest

County Name: Floyd

City, State, Zip: Rockford

State ID (if one exists): Q34-0002

Congressional District: 4

- NPL Status: Currently on the Final NPL Not on the NPL Deleted on the final NPL Pre-Proposal Site Not a Valid Site or Incident Proposed for NPL Removed from Proposed NPL Withdrawn Site is Part of NPL Site

- Section: C-(STAR) SPFD Technical Assistance/Re-Use Branch L-(EFLR) Enfr/Fund Lead RV Branch Fed Fac Ind: Federal Facility F-(FFSE) Federal Facilities/Apecial Emphasis Brnach M-(MOKS) MO/KS Remedial Branch Not a Federal Facility I-(LANE) IA/NE Remedial Branch O-(ER&R) Emergency Response & RV Branch Status Undetermined

List Site Alias Name (s): n/a

Directions to Site: Take I-235E to I-35N for 5 miles. Then at exit 190, turn right onto ramp. The road will change to US18. Follow for 20 miles. Turn right (south) onto Echo Avenue. Follow on Echo Avenue for 4 miles. Keep straight onto 4th Street NE. Turn right onto (E) Main Avenue, then right onto 8th Street NW.

Site Description: Inactive Cooperative

Site Size: 68

- Site Dimension: X Acres Square Feet Feet Square Miles Miles

USGS Quadrant: Rockford USGS Hydro Unit: 0708020304

Latitude: 43.061 Longitude: 92.959 (With the release of 3.9 lat/long are in Decimal Degree format) Lat/Long Accuracy: Seconds Miles Feet Degrees Minutes Kilometers X Meters

- Lat/Long Source: EPA Region 7 EPIC Dun & Bradstreet Regulated Entity Private Geograph State SNAP Other Other Fed Agency Tribe Contractor EPA HQ Unknown

- Owner Operator Type (Choose 1) Federally Owned Former Federally Owned or Operated Government Owned/Contractor Operated Privately Owned/Government Operated Property Defaulted Back to Government Municipality Bank/Loan Company County Owned District Owned EPA Region 7 Private Other EPA HQ Indian Lands Other Private Mixed Ownership State Owned Trustee, Federal Trustee, State

- Operational Status: Active Inactive X Unknown Incident Type: Non-Oil Spill X Oil Spill Unknown

- Non-NPL Status (Choose one): Addressed as part of NPL site (AX) Combined PA/SI Ongoing (CO) Deferral of NPL Listing Dec. While States Oversee Resp. (SD) ESI Ongoing (EO) ESI Start Needed (ES) Fed Fac ESI Review Start Needed (FE) Fed Fac Prelim Assessment Rev Ongoing (PG) Fed Fac Prelim Assessment Rev Start Needed (PN) Fed Fac Site Inspection Rev Ongoing (FG) Fed Fac Site Inspection Rev Start Needed (FS) HRS Ongoing (HO) HRS Package Completed-Further Eval. Needed (HN) HRS Start Needed (HS) Integrated ESI RI Ongoing (IO) Integrated ESI/RI Start Needed (IS) Integrated Removal/Remedial Eval Ongoing (IN) Integrated Removal/Remedial Eval Start Needed (IR) NFRAP (NF) Other Cleanup Activity: Fed Fac-lead Cleanup (OF) Other Cleanup Activity: State-Lead Cleanup (OS) Other Cleanup Activity: Tribal-lead Cleanup (OT) PA Ongoing (PO) PA Start Needed (PS) Ref to Rvl-Further Assess Needed (RW) Referred to Rvl - NFRAP (RR) Removal Only Site (No Site Assess Work) (RO) SI Ongoing (SO) SI Start Needed (SS) SIP Ongoing (SG) SIP Start Needed (SN) Site Reassessment Ongoing (SR) Status Not Specified (SX) Site Reassessment Start Needed (RN)

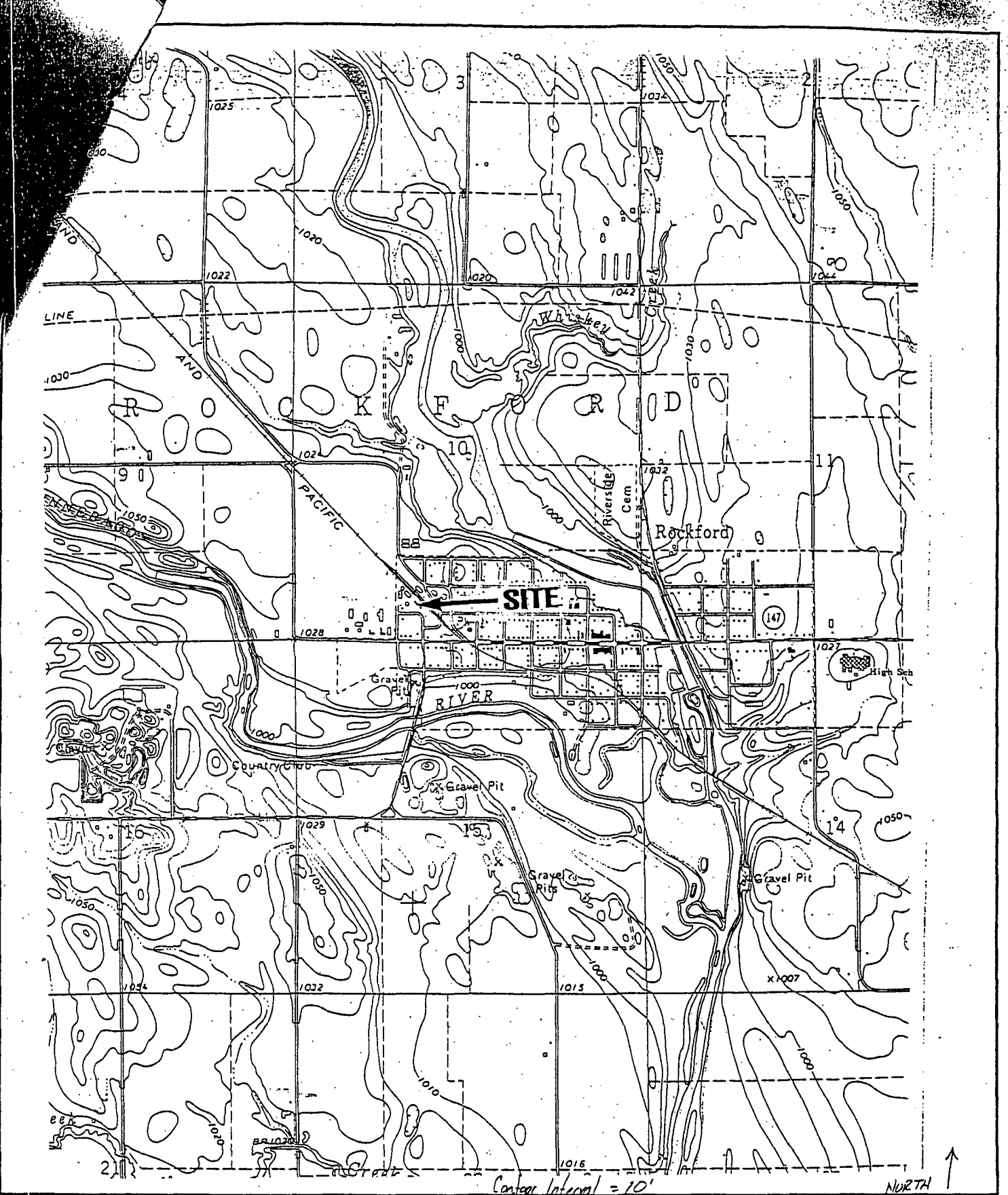
Site Type (Choose all that apply - for every main category chosen in bold at least one sub-category must be selected; if more than one main and sub category is selected indicate which is primary):

Primary designation: OT

- 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 TA -Tanneries OT-Other-Description (needed): 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 OT-Other-Description (needed) 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 OT-Other-Desc. (Needed): RW-Radioactive waste treatment, storage, disposal (non-generator) X OT-Other - Applicable sub-categories: AG-Agricultural (e.g., grain elevator) CS-Contaminated sediment site with no identifiable source DC-Dust control OT-Other-Desc. (Needed): 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 X 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) OT-Other-Description. (Needed):

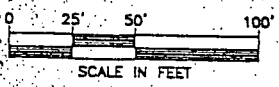
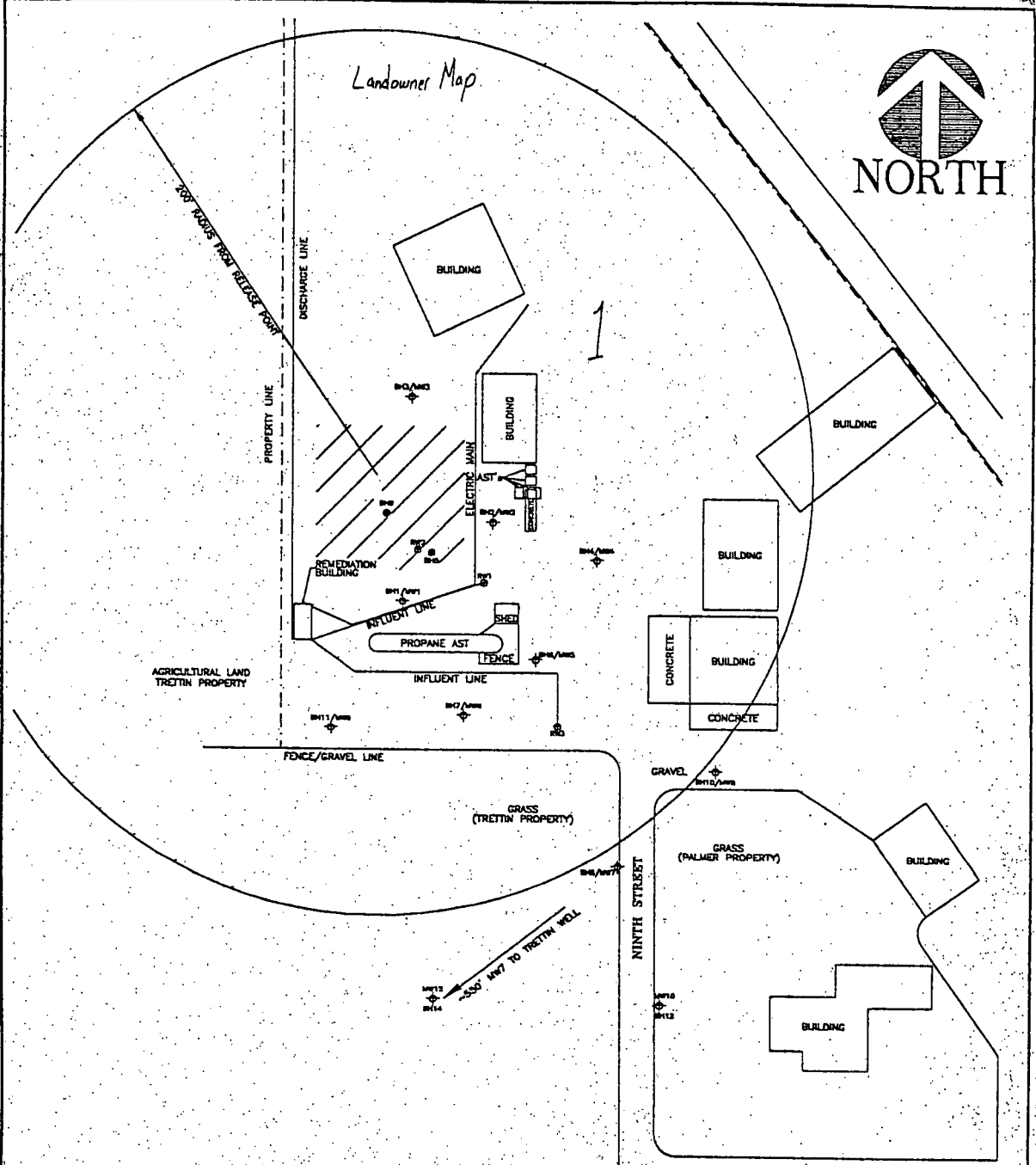
Signatures:

State: Date: 2/23/05 RPM/OSC/SAM: Date: / /



Seneca Environmental Services		Date: March 16, 2000
Farmer's Cooperative Rockford, Iowa	Spill #43-10051- DH-2345	Topographic Site Map
Seneca Job #6849307		Scale: 1" = 2000'

Landowner Map



LEGEND:

- ◆ Monitoring Well Location
- Borehole Location
- Recovery Well Location
- Property Line
- ▨ Boundaries of Overexcavation
Total Depth of Excavation = 20'