

SIRR Report

Unassigned Uncontrolled Sites

SIRR ID

P17-0011

Site Name

LAND O' LAKES, ROCKWELL

City Location Rockwell

Site Type

Property Audit

County

Cerro Gordo

SITE INFORMATION

Property Owner

Ron Pumphrey

Mailing Address

Farmers Cooperative of New Hampton

1949 McCloud Street

New Hampton, Iowa 50659

Location/Legal Description

16 032 130th Street

Rockwell, Iowa

SW 1/4 of SW 1/4 of Section 15, T94N, R20W

Latitude: 42.9528 Longitude: 93.1997

Size Of Property

4.2 acres

Report Prepared By

John Bale, Envirosolutions

Date Report Submitted 05/03/2002

Screening Activity Extended Site Screening

Report Submitted By John Bale, Envirosolutions

Current Usage

Ag Chem Stor. & Distrib.

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.)

ISS INFORMATION

Twelve (12) composite soil samples were collected in ten (10) distinct areas to a depth of two (2') feet bgs on-site. Samples were analyzed for nitrate nitrogen, ammonia nitrogen, and MDA List #1 pesticides. A surface water sample was collected from the holding pond southwest of the warehouse. The water sample was analyzed for MDA List #1 pesticides.

Elevated concentrations of Alachlor were discovered in the soil samples at Areas 5 (5.5 mg/kg) and 9 (2,400 mg/kg). Also ammonia nitrogen and nitrate nitrogen was detected in the soil samples at Area 5 (570 mg/kg and 96 mg/kg, respectively) and nitrate nitrogen at Area 9 (12 mg/kg). High levels of Alachlor, Atrazine, and Metolachlor were discovered in the surface water samples taken from the holding pond.

ESS INFORMATION

Eleven soil samples from Area 5, Liquid Nitrogen load-out, were collected and analyzed for nitrate nitrogen and ammonia nitrogen. An attempt to collect a groundwater sample was unsuccessful. The maximum concentration of nitrate nitrogen was 560 mg/kg from soil boring P3 between 0.5-1.5 ft. The current statewide standard for nitrate nitrogen under Chapter 137 is 130,000



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mg/kg. The maximum concentration of ammonia nitrogen from Area 5 was 2,900 mg/kg at soil boring P3 between 4-5 ft. Currently, there is no statewide standard under Chapter 137 for ammonia nitrogen.

Eleven soil samples from Area 9, Stormwater Run-off collection area, were collected and analyzed for neutral extractable pesticides (MDA List #1). Cyanazine was detected at a concentration of 0.15 mg/kg at boring P8 from 4-5 feet bgs. Acetochlor, atrazine, and metribuzin were detected at concentrations of 60 mg/kg, 0.11 kg/mg and 30 mg/kg, respectively, at boring P1 from 0.5 to 1.5 feet bgs. Metribuzin was detected at a concentration of 0.94 mg/kg at boring P10 from 4-5 feet bgs. The statewide standard for the above-mentioned contaminants are as follows: cyanazine 160 mg/kg, acetochlor 1600 mg/kg, atrazine 2700 mg/kg, and metribuzin 2000 mg/kg.

Attempts to collect a groundwater sample at Area 9 and Area 5 were unsuccessful.

A groundwater sample was collected from the on-site water supply well and analyzed for nitrate nitrogen, ammonia nitrogen, and neutral extractable pesticides (MDA List #1). The results of chemical analysis performed on the groundwater sample collected at the water supply well indicated a nitrate nitrogen concentration of 1.9 mg/l, an ammonia nitrogen concentration of 2.87 mg/l, and non-detectable concentrations of the analyzed pesticides.

Two sediment samples from the stormwater retention pond were collected and analyzed for neutral extractable pesticides (MDA List #1). The chemical analysis of the sediment samples did not indicate the presence of pesticide compounds at concentrations above the laboratory method detection limit with the exception of 0.16 mg/kg cyanazine at SS-2 (std. 160 mg/kg, according to Chapter 137).

Based on the above information, split sampling was conducted between the Department and the responsible party in efforts to render a comfort letter to the responsible party. A water sample was collected from the drinking water well and analyzed for pesticides, nitrate, and ammonia contaminants. The Department's results indicated that ammonia nitrogen exists at 2.6 mg/L. All other contaminants were below detection limits.

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.)

ISS INFORMATION

The site was developed as an agricultural chemical distribution facility in the 1960's. From approximately 1960 to 1997, dry fertilizer, liquid fertilizer, and/or pesticides were distributed from the site. There were several above-ground storage tanks on site. With the capacity of 18,000, 30,000, and 320,000 gallons, they held Anhydrous Ammonia, Anhydrous Ammonia, and 28% Nitrogen, respectively. There was a holding pond south of the warehouse building along 130th Street.

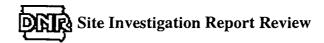
ESS INFORMATION

The site is currently inactive.

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)

ISS INFORMATION

A Phase I was conducted in the fall of 2000. Based on the findings, the site has been used to store and/or distribute agricultural chemicals. No obvious signs of leaks or spills of hazardous substances were observed; however, it is possible that day-to-day activity could have an impact on soil and/or groundwater at the site. This is most applicable to the locations where agricultural chemicals were stored, loaded, and unloaded, and at the holding pond due to possible accumulated run-off.



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ESS INFORMATION

No wells were identified within a 2000' radius of the site. However, 11 water wells were identified within a 4-mile radius of the area: four municipal wells within the City of Rockwell, each serving approximately 989 people, two non-municipal wells located at Linn Grove Park and five private, permitted water wells. (Information obtained from ArcView).

According to the a water well search included in the Site Investigation Report, six wells were identified to exist within a 2000' radius of the site. Of the six wells, three were listed as abandoned, two are active, and one is listed as a test well. Also, there is a well on-site. The depth of the on-site well is unknown. The wells with known construction are drilled to depths of 45 to 185 feet bgs, and constructed with casings to 125 feet bgs.

The nearest surface water tributary is to the East Branch of Beaverdam Creek, located approximately 600' east and 800' south.

Iowa Department of Natural Resources conducted an on-site observation survey in November 2002. Observed were three residences to the east, west, and south of the site. The closest residence was approximately a half a mile away (the eastern residence).

REVIEW SUMMARY

Contaminant Type Ag Chemical

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.

ISS INFORMATION

Soil samples from Areas 1, 3, 4, 4a, 4b, 6, and 7 were analyzed for traces of nitrate nitrogen and ammonia nitrogen. Though there was evident contamination, levels did not exceed Iowa Land Recycling Program (ILRP) soil standards. Composite soil samples from Areas 2a, 2b, and 8 were analyzed for MDA List #1 pesticides and though traces of these contaminants was apparent, they did not exceed soil standards. Concentrations of Alachlor in Area 5 (5.5 mg/kg) and Area 9 (2,400 mg/kg) were detected. Area 5 soil samples detected high levels of ammonia nitrogen (570 mg/kg) and nitrate nitrogen (96 mg/kg) while only nitrate nitrogen was detected in Area 9 soil sample at 12 mg/kg. A water sample was analyzed from the holding pond on-site and the following was detected: Alachlor (4.0 ppb), Atrazine (0.68 ppb), and Metolachlor (1.0 ppb)

ESS INFORMATION

Based on the information collected, high levels of nitrate nitrogen, ammonia nitrogen, and pesticides exist in soil at the site. However, amounts discovered are not above Chapter 137 statewide standards.

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.

ISS INFORMATION

To the north, east, and west of the site is agricultural cropland and to the south is undeveloped lowland. There is a holding pond on-site and south of the warehouse. It was used for run-off from the site's operations.

ESS INFORMATION

An on-site survey was conducted by the Department. Currently inactive, the site is right off of Highway 65. The surroundings

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are undeveloped. The closest residence is approximately 1000' northwest of the site.

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

ISS INFORMATION

Recommend an ESS be conducted to determine the exact extent and magnitude of soil contamination and possible groundwater contamination concerning the contaminant of Alachlor at the areas of main concern, the holding pond and areas 5 and 9. Evidence will determine whether remedial action is necessary.

ESS INFORMATION

Based on the information submitted to the Department, a split water sample was collected between the Department and responsible party from the on-site water supply well to determine whether the on-site well is being impacted by contaminants stored on the property. Lab analyses of the groundwater samples were compared. Based on this comparison, the contaminants previously detected in the water well do not seem to pose a threat to human health and the environment. Therefore, no further action is necessary at the site under CERCLA or state authority.

PRIORITY LEVEL

Priority Level

PROGRAM AUTHORITY REFERRAL

Program Authority Referral No Further Action

Other Referral

ISS/Form Completed By

Jessica R. Montana

Date ISS Completed

06/11/2001

ESS Completed By

Jessica R. Montana

Date ESS Completed

Date Completed

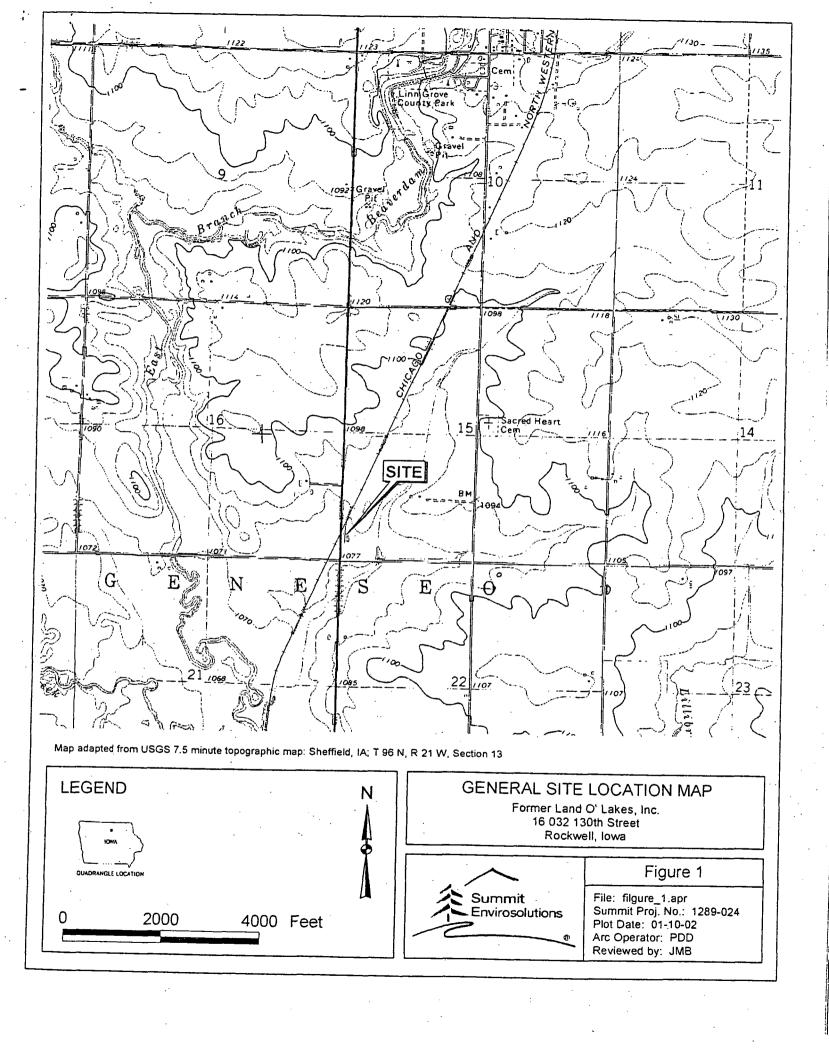
Form Reviewed

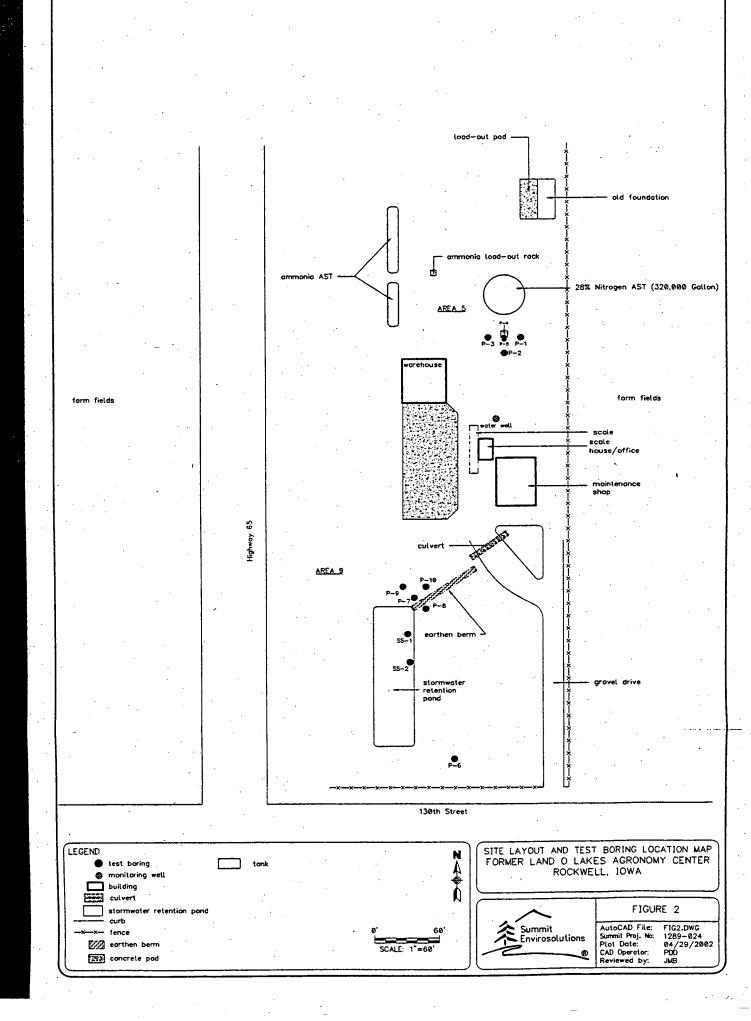
Lambert Nnadi

Calvin Lundberg

Date Reviewed

2/11/03





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.

0						_
Checklist Preparer:				<i>y</i> 3, 2003		
	(Name/Title))	- 50010	(Date)	0004	
	900 E. Grand Avenue, D (Address)	des Moines, Iowa	1 503 19	515-281 (Phone)	-0934	
	jessica.montana@dnr.st	tate ia us		(4 1.0)		
	(E-mail Address)					
Site Name:	Land O' Lakes, Rockwel	11				
Previous Names (if any):	n/a					
Site Location:	16 032 130th Street					
	(Street)					
	Rockwell		lowa	50469		
Latitude:	(City) 42.9528	Longitude:	(ST) 93.1997	(Zip)		
	 	-				
					\ <u></u>	1.10
	checklist. If "yes" is mar	ked, please expla	in below.		YES	NO
1. Does the site already	roducts that are part of the s	trusture of and re	oult in ovnoour	within		
	pusinesses or community str		suit in exposure	; willin,		
	of a release of a naturally o		in its unaltere	d form,		
	naturally occurring process	es or phenomena,	from a location	where		
it is naturally found?			1 1 1			
4. Is the release into a public or private drinking water supply due to deterioration of						
the system through ordinary use?						\boxtimes
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?						
	ubstances potentially release	ed at the site regul	ated under a st	atutory		
exclusion (i.e., petroleur	n, natural gas, natural gas lic	quids, synthetic ga	s usable for fue			\boxtimes
	tilizer, release located in a w	orkplace, naturally	occurring, or			
regulated by the NRC, UMTRCA, or OSHA)? 7. Are the hazardous substances potentially released at the site excluded by policy						
	erral to RCRA Corrective Ac		dea by policy			\boxtimes
8. Is there sufficient doc	cumentation that clearly dem	onstrates that the		al for a		
	e adverse environmental or h					. 57
	I investigation equivalent dat				الا	\boxtimes
	on, documentation showing to proved risk assessment com		substance relea	ase		
		<u> </u>				
Please explain all "yes	" answer(s), attach additio	nal sheets if nec	essary:			
		·				
		,				
						•
			•			

01/03/03

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 After further investigation recommended that no is warranted under state	on of pesticide, nitrate nitrogen and ammonia nitrogen contamination, it is further action need be done at the site under CERCLA. No further action	ε
	•	
Regional EPA Reviewer	Print Name/Signature Date	· ·
State Agency/Tribe:	Print Name/Signature al All Date Date	

PRE-CERCLIS INITIATION FORM NPL Status = O-NOT A VALID SITE OR INCIDENT

Site Name: Land O Lakes		
Address:16 032 130th Street	County Name: Cerro	Gordo
City, State, Zip: Rockwell, Iowa 50469	State ID (if one exi	ists):P17-0011 Congressional District: 2
NPL Status: = Not a Valid Site or Incident	Federal Facility? 🗌 Yes 🛭 No	
Section: C-(SACR) Site Assessment/Cost Record M-(MOKS) MO/KS remedial Branch	ery Branch 🛭 L-(EFLR) Enfr/Fund I-(IANE) IA/NE Rei	
List Site Alias Name (s): n/a		
Directions to Site: From Des Moines take 35 North	for approximately 105 miles, then tak	te B60 east approximately 10 miles.
Site Description: Ag Chem Storage and Distribution	facility	
Site Size: 4.2		
Site Dimension: Acres Square Feet Square Miles	Miles	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):
USGS Quadrant: Sheffield	: 0708020401	Primary designation: OT
Latitude: 42. 9528 Longitude: 93.1997 (Decimal Degree format)		☐ MP-Manufacturing/Processing/Maintenance - Applicable sub-categories: ☐ CA-Chemicals and allied products ☐ CG-Coal gasification
Lat/Long Accuracy: Seconds Mill Degrees Minutes Skill	es ☐ Feet ometers ⊠ Meters	☐ CP-Coke production ☐ EP-Electric power generation and distribution.
Lat/Long Source:	С	☐ 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
Owner Bank/Loan Company Operator County Owned Type District Owned (choose 1): Federally Owned Former Federally Owned or Opera Government Owned/Contractor Opera Privately Owned/Government Opera Property Defaulted Back to Govern Municipality	perated Trustee, Federal rated Trustee, State	☐ 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
Operational Status: Active Inactive	☐ Unknown	 ☐ WM-Waste Management - Applicable sub-categories ☐ CL-Co-disposal landfill (municipal and industrial) ☐ ID-Illegal disposal/open dump
Incident Type: 🛛 Non-Oil Spill 🔲 Oil Spill	Unknown	☐ IF-Inegal disposar/open dump ☐ IF-Industrial waste facility (non-generator) ☐ IL-Industrial waste landfill
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 olete: / /	☐ MD-Mine tailings disposal ☐ ML-Municipal solid waste landfill ☐ RW-Radioactive waste treatment, storage, disposal (non-generator) ☑ OT-Other - Applicable sub-categories
Actual Compl	ete: / /	
Lead code (choose one): F-EPA Fund Fianced FF - Federal Facility	⊠ S - State, Fund Financed	☐ 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
SCAP Note:		AT-Automobiles/tires
Add below Action (if No Further Action):		DT-Drums/tanks WO-Waste/used oil BS-Batteries/scrap metals/secondary smelting/precious metal recovery
OU 00 Lead: EP PRE-CERCLIS ARCHIVE Actual Comple	ete: 07/30/2002	CC-Chemicals/chemical waste (e.g., solvent recovery)
Comment: Site on Action: Signatures: State: Al A	Date	PM/OSC/SAM:Date//

I. SITE NAME AND LOCATION:					
NAME: Land O' Lakes, Rockwell					
ADDRESS OR OTHER LOCATION IDENTIFIER: 16 032 130th	Street				
CITY: Rockwell	ZIP: 50469				
DIRECTIONS TO SITE: From Des Moines take 35 north for appro	ximately 105 miles, the	en take B60 east approx	mately 10 miles.		
	MAP A	TTACHED: Yes	·		
II. PROGRAM CONTACTS:					
REQUESTED BY: Don Hamera		DATE OF REQUEST	ſ: n/a		
AGENCY/OFFICE: Environmental Protection Agency					
MAILING ADDRESS: 901 N. 5th Street, Plaza Level					
CITY: Kansas City	STATE: Kansas		ZIP: 66115		
TELEPHONE: 913-551-7818	EPHONE: 913-551-7818 FAX: 515-551-5035				
EVALUATOR: Jessica Montana					
AGENCY/OFFICE: Contaminated Sites Section, Iowa Department	of Natural Resources		•		
MAILING ADDRESS: 900 E. Grand Avenue					
CITY: Des Moines	STATE: Iowa		ZIP: 50319		
TELEPHONE: 515-281-8934	FAX: 515-281-8895				
III. SITE INFORMATION:					
TYPE OF FACILITY: Ag Chem Storage & Distribution facility TYPE OF OWNERSHIP: Private					
OWNER/OPERATOR INFORMATION:					
SITE STATUS (active/inactive): Inactive	YEARS OF OPERA	ATION: Unknown			

OPERATIONAL HISTORY: (How was the site identified?)

A Phase I investigation was conducted due to a property transfer. Based on Phase I investigation, a Phase II was recommended. Soil borings were collected during the Phase II site assessment. The soil borings indicated the need for further soil and initial groundwater samples be taken to help determine the extent and magnitude of contamination found in the Phase II. The Department and the responsible party collected split samples at the water well on-site. The samples were analyzed for pesticides, ammonia, and nitrates. Analysis did not detect contaminants above statewide standards in pesticides, ammonia, or nitrates.

THE DEPOSIT OF CONTRACTOR AND CONTRACTOR OF	
IV. PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISIONS	~ · o T oo
(Criteria from "Improving site Assessment: Pre-CERCLIS Screening Assessments", OSWER Directive #9375.2-11FS, EPA-	-540-F-98-
039, PB98-963310, October 1999)	
1. Does the site already appear in CERCLIS?	NO
(If YES, this Form may be inappropriate to document site decisions, i.e., a CERCLA PA (at a minimum) is required.)	
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?	NO
(If YES, then explain in Section V.)	
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or solely through naturally	
occurring processes or phenomena, from a location where it is naturally found?	NO
(If YES, then explain in Section V).	
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	
	NO ·
(If YES, then explain in Section V.)	
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program?	
	NO
(If YES, then explain in Section V).	
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natu	ural 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)?	NO
(If YES, then explain in Section V).	'
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA	
Corrective Action)?	NO
(If YES, then explain in Section V).	
Check one, either 8.a or 8.b, whichever applies	
8. a. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause ad 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 releases have occurred, El approved risk assessment completed)? YES or No. (Explain in Section V).	PA
8. b. Base on limited sampling that has been performed at/near the site in conjunction with Pre-CERCLIS Screening Asset is there a release or a potential for a release that could cause adverse environmental or human health impacts? (Explain in Section V). Yes -> Explain in the following Sections whether or not a CERCLA response action (CERCLIS entry) is warranted.	essment,
No -> No CERCLIS entry is warranted. Explain in the following Sections.	İ

V. SUPERFUND SITE SCREENING CRITERIA

A. REMEDIAL CRITERIA

1. SOURCE AND WASTE CHARACTERISTICS

KNOWN OR SUSPECTED SOURCE TYPES AND LOCATIONS: The suspected source of contamination was around Area 5, the nitrogen load-out station, Area 9, the stormwater run-off collection area, and the holding pond south of the site.

SIZE OF SOURCES AND QUANTITIES (Volume, Area): Unknown. Based on the data collected, contamination seems to have occurred over the regular use of the site over a period of time.

WASTE TYPES OR HAZARDOUS SUBSTANCES KNOWN OR SUSPECTED TO BE PRESENT: Ammonia nitrogen, nitrate nitrogen, and neutral extracted pesticides (MDA List #1)

2. GROUND WATER PATHWAY:

What is the likelihood that a release to groundwater has occurred at the site? A water sample collected from the on-site water well indicated that there are trace amounts of contaminants at site; however, the contaminants detected are not above statewide standards.

If a release is not suspected proceed to A.3.

a. USE AND CHARACTERISTICS:

GENERAL STRATIGRAPHY AND HYDROLOGY: The site is underlain by glacial drift till of Quaternary age. The glacial deposits are comprised primarily of sands and gravels deposited by glacial meltwater.

PRESENCE OF KARST TERRAIN: None are known to exist within the area.

DEPTH TO SHALLOWEST AQUIFER: Unknown. Attempts were made to retrieve groundwater at 24'. Groundwater was never reached.

PRIVATE WELLS WITHIN 4 MILES (locations and population served):

According to ArcView, there are five private, permitted water wells within a 4-mile radius of the site; however, there are not any private wells within a 2000' radius of the site. Population served by these wells is unknown, but it is approximated to be 2.8 persons per household. Therefore, the estimated population served by the private, permitted wells located in the 4-mile radius is 14 people. Also, four of the five private, permitted wells are located north of the site and the fifth well is located south of the site.

According to site investigations, there are six water supply wells identified within a 2000' radius of the site, three are listed as abandoned, two are active, and one is listed as a test well. Also, there is a water supply on the property. The depth of the on-site well is unknown. The on-site well use is listed as industrial.

According to the Sheffield 7.5 Quadrangle map, there are approximately 30 farmsteads illustrated on the map. Population of these farmsteads is unknown; however it is approximated that 2.8 persons per household. Therefore, the estimated population served by wells that possibly exist at these farmsteads is 84 people.

Iowa Department of Natural Resources conducted an on-site survey November 2002. Three residences were observed to the east, west, and south. The closest residence was approximately a half mile east of the site.

MUNICIPAL WELLS WITHIN 4 MILES (locations and population served):

According to ArcView, there are four municipal wells and two non-municipal wells north and within a 4-mile radius of the site. The estimated population served by the municipal wells is 989 people at each well. There are no municipal wells within a 2000' radius of the site. (Information obtained from ArcView)

DISTANCE TO NEAREST DRINKING WATER WELL:

There is a drinking water well on-site. The closest drinking water well off-site is approximately a half mile east of the site.

WELLHEAD PROTECTION AREAS: Unknown

3. SURFACE WATER PATHWAY:

What is the likelihood that a release to surface water has occurred at the site? In the initial site investigation, a retention pond existed on-site. Contamination, specifically Alachlor, Atrazine, and Metolachlor, was discovered in the surface water sample taken. However, subsequent sediment samples were collected and analyzed for neutral extractable pesticides. Trace amounts of contamination was discovered in the sediment samples. Also, based upon a site observation by the Department in November 2002, no water was observed. The area resembled a roadside ditch.

The nearest surface water, other than the holding pond, is a tributary to the East Branch of Beaverdam Creek located approximately 600 feet east and 800 feet south of the site. It is unlikely that a release to the Beaverdam Creek has occurred at the site.

If a release is not suspected proceed to A.4.

a. USE AND CHARACTERISTICS:

FLOOD FREQUENCY:

DISTANCE TO NEAREST SURFACE WATER:

SURFACE WATER BODIES WITHIN 15 DOWNSTREAM MILES:

DESIGNATED AND/OR PROTECTED USES OF SURFACE WATER BODIES:

DRINKING WATER INTAKES WITHIN 15 DOWNSTREAM MILES (locations and populations served):

FISHERIES WITHIN 15 DOWNSTREAM MILES:

KNOWN OR POTENTIAL SENSITIVE ENVIRONMENTS AND WETLANDS WITHIN 15 DOWNSTREAM MILES:

4. SOIL EXPOSURE PATHWAY:

What is the likelihood of exposure to hazardous substances at the site? Based on discrete soil samples taken, nitrate nitrogen, ammonia nitrogen, and pesticides (MDA List #1) have been detected in the soil samples. However, levels were below the applicable statewide standards.

Also, there is not a documented release by the facility of hazardous substances. However, it is possible that contamination occurred over a period of time through general use of the site rather than a one-time release or spill.

If a release is not suspected proceed to A.5.

a. CHARACTERISTICS:

NUMBER OF PEOPLE LIVING WITHIN 200 FEET:

SCHOOLS OR DAY-CARES WITHIN 200 FEET:

POPULATIONS WITHIN 1 MILE:

NUMBER OF WORKERS AT THE FACILITY OR ADJACENT FACILITIES WHOSE CONTAMINATION IS SUSPECTED:

LOCATIONS OF KNOWN OR POTENTIAL TERRESTRIAL SENSITIVE ENVIRONMENTS:

5. AIR PATHWAY:

What is the likelihood that a release of hazardous substances are migrating from the site to the air? There has not been a documented release of hazardous substances from the site to the air.

If a release is not suspected proceed to B.

a. CHARACTERISTICS

POPULATIONS WITHIN 4 MILES:

DISTANCE TO NEAREST INDIVIDUAL:

LOCATIONS OF KNOWN OR POTENTIAL SENSITIVE ENVIRONMENTS WITHIN 0 TO 1/4 MILE AND 1/4 TO 1/2 MILE:

B. REMOVAL CRITERIA

IS THERE A RELEASE AS DEFINED BY THE NCP?

YES

EXPLAIN: Based on samples collected and the previous use of the site, it seems that contamination occurred over a period of time and general use of the site rather than a one-time release or spill.

(A RELEASE is defined as any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment of barrels, containers, and other closed receptacles containing any hazardous substances or pollutant or contaminant), but excludes: workplace exposures; engine exhaust emissions; nuclear releases otherwise regulated; and the normal application of fertilizer. For purposes of the NCP, release also means threat of release.[40 CFR 300.410(e)])

B. REMOVAL CRITERIA (continued):

IS THE SOURCE A FACILITY OR VESSEL AS DEFINED BY THE NCP?

YES

EXPLAIN: There are 18,000, 30,000, and 320,000-gallon aboveground storage tanks (AST) on-site. The two aboveground storage tanks formerly contained anhydrous ammonia and the 320,000-gallon AST contained 28%nitrogen.

(A FACILITY is defined as any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or POTW), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft or any site or area, where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located; but does not include any consumer product in consumer use or any vessel. A VESSEL is defined as any description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water other than a public vessel. [40 CFR 300.410(e)]

DOES THE RELEASE INVOLVE A HAZARDOUS SUBSTANCE, POLLUTANT OR CONTAMINANT AS DEFINED BY THE NCP?

YES

EXPLAIN: The contaminants investigated were ammonia nitrogen, nitrate nitrogen, and pesticides (MDA List #1)

(A HAZARDOUS SUBSTANCE means any substance, element, compound, mixture, solution, hazardous waste, toxic pollutant, hazardous air pollutant, or imminently hazardous chemical substance or mixture designated pursuant to the CWA, CERCLA, SDWA, CAA or TSCA. The term does not include petroleum products, natural gas, natural gas liquids, liquefied natural gas, synthetic gas or mixtures of natural and synthetic gas. The definition of POLLUTANT or CONTAMINANT includes, but is not limited to, any element, substance, compound, or mixture, including disease-causing agents, which after release into the environment and upon exposure, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions or physical deformations, in such organisms or their offspring. The term does not include petroleum products, natural gas, natural gas liquids, liquefied natural gas, synthetic gas or mixtures of natural and synthetic gas.).[40 CFR 300.410(e)]

IS THE RELEASE SUBJECT TO THE LIMITATIONS ON RESPONSE?

NO

EXPLAIN: The contaminants do not fall within the limitations of response provision as defined in NCP (40 CFR 300.400(B)).

(The LIMITATIONS ON RESPONSE provisions of the NCP (40 CFR 300.400(B) states that removals shall not be undertaken in response to a release: of a naturally occurring substance in its unaltered or natural form; from products that are a part of the structure of, and result in exposure within, residential buildings or business or community structures; or into public or private drinking water supplies due to deterioration of the system through ordinary use.).[40 CFR 300.410(e)]

DOES THE QUANTITY OR CONCENTRATION WARRANT RESPONSE?

NO

EXPLAIN: The contaminants are not above applicable statewide standards, therefore do not warrant a response.

[40 CFR 300.410(e)]

HAS A PRP BEEN IDENTIFIED? (Include name, address and telephone number)

YES

EXPLAIN: Previous Operator Land O Lakes, Inc., P.O. Box 64101, St. Paul, Minnesota, 55164-0101, 651-481-2744

Current Owner Ron Pumphrey, Farmers Cooperative of New Hampton, 1949 McCloud Street, New Hampton, Iowa 50659

[40 CFR 300.410(e)]

B. REMOVAL CRITERIA (continued):	
IS THERE AN ACTUAL OR POTENTIAL EXPOSURE TO HAZARDOUS SUBSTANCES OR POLLUTANTS, OR CONTAMINANTS?	YES
EXPLAIN: Although the site is currently inactive, there is a potential exposure because an 18,000, 30,000, and 320,000-gallon aboveground storage tanks exist on-site. The two aboveground storage tanks formerly contained anhydrous ammonia and the la contained 28% nitrogen. Because there exists aboveground storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure to hazardous storage tanks on-site, there is a potential for exposure tanks on-site.	tter
IS THERE ACTUAL OR A POTENTIAL FOR CONTAMINATION	YES
OF DRINKING WATER SUPPLIES?	
EXPLAIN: There is potential exposure because a water supply well exists on-site and contamination is dependent on the future site.	e use of the
ARE THERE HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS	NO
IN DRUMS, BARRELS, OR BULK STORAGE CONTAINERS?	
EXPLAIN: An aboveground storage tank and the two anhydrous ammonia tanks exist on site; however, it is documented that t storage containers are currently empty.	hese bulk
ARE THERE HIGH LEVELS OF HAZARDOUS SUBSTANCES, POLLUTANTS,	NO
OR CONTAMINANTS IN NEAR-SURFACE SOILS?	
EXPLAIN: Based on the Phase II investigation, high levels of alachlor, specifically 2400 mg/kg, were discovered in composite samples around Area 9. The composite samples were taken in November 2000. However, subsequent discrete soil samples were and analyticals indicated less than detect concentrations of alachlor in area 9, which were taken in February 2002. ("High levels" may be determined by streamlined risk assessments, health consultations, state or federal soil screening criteria Superfund program policies or directives.)	a, and/or
ARE THERE CONDITIONS ON SITE WHICH MAY BE SUSCEPTIBLE TO	NO
IMPACT FROM ADVERSE WEATHER CONDITIONS?	
EXPLAIN: There do not seem to be conditions susceptible to impact from adverse weather conditions.	
EXTENTIVE THE GO NOT Seem to be conditions susceptible to impact non-	
	NO
IS THERE A THREAT OF FIRE OR EXPLOSION?	NO
EXPLAIN: There does not seem to be a threat of fire or explosion. The contaminants found at the site are not volatile.	
IS THERE A POTENTIAL FOR OTHER FEDERAL OR STATE RESPONSE MECHANISMS?	YES
IF SO, IDENTIFY THE APPROPRIATE PROGRAM:	
RCRANRCFIFRAUSTOTHER FEDERAL () _X_STATE DEFERRAL	
EXPLAIN: Based on the findings at the site, the site can be handled under state authority.	
ARE THERE OTHER SITUATIONS OR FACTORS WHICH WARRANT FURTHER	NO
SUPERFUND RESPONSE?	•
EXPLAIN: There are not other situations or facts that warrant further Superfund response.	

VI. SU	PERFU	JND SITE SC	REENING FINDINGS AND RECOM	MENDA	TIONS:		
	• • •			,			
Х	NO	FURTHER SU	PERFUND RESPONSE ACTION REQ	UIRED -	SUPER	FUND CERCL	IS ENTRY NOT WARRANTED
(Cite the	e appro	priate criteria fi	om SECTION V as the basis for the abo	ve detern	nination.)	
Yes	No	Unknown	Issue	Yes	No	Unknown	Issue
		Х	Ground Water Pathway Threat		Х		Direct Exposure Pathway Threat
	Х		Surface Water Pathway Threat		Х		Air Pathway Threat
Х			Release Or Threat Of Release	Х			A Facility Or Vessel
Х			Hazardous Substance, Pollutant, or Contaminant	Х			Subject To Response Limitations
	Х		Quantity Or Concentration Warrant Response		Х		Exposure To Hazardous Substances Or Pollutants Or Contaminants
Х			Drums, Barrels Or Bulk Containers Present		Х		High Levels Of Contaminants In Surface Soils
	Х		Site Susceptible To Adverse Weather Conditions		Х		Threat Of Fire Or Explosion
Х			Willing/Capable PRP Response	Х			Referred To Another Program
COMMENT: The Groundwater Pathway Threat is unknown because only one groundwater sample was collected from the on-site water well, which is located in the center of the property, though numerous attempts to collected groundwater samples from other locations were unsuccessful.							
			•	,			· ·
R	EMOV	AL ACTION	RECOMMENDED: EMERGENCY	TIM	E-CRIT	ICALNON	I-TIME-CRITICAL
(Cite on be cond		re of the condi	tions or factors from Section V. REMO	VAL CRI	TERIA,	as a basis for re	ecommending that a removal action
Yes		No Unkno	wn Issue	Yes	No	Unknown	Issue
			Exposure To Hazardous Substances Or Pollutants Or Contaminants				Actual Or A Potential For Contamination Of Drinking. Water Supplies
			Drums, Barrels Or Bulk Containers Present			<u>.</u>	High Levels of Contaminants Near-Surface Soils
			Site Susceptible To Adverse Weather Conditions				Fire/Explosion Threat
			Other Response Mechanism				Other Factors

	RI	EGION VI	I SUPERFUND SITE PE	RE-CE	RCLI	SSCREE	NING FORM
COMM	ENT:						,
		·					
VI. SUP	ERFUND	SITE SCREI	ENING RECOMMENDATIONS (continued	l):		
	ADDIT	IONAL INTE	GRATED ASSESSMENT RECON	MENDI	ED		
(Cita tha	ennronria	te criteria from	Section Vas a basis for recommending	ng that add	ditional s	ite evaluation	be performed.)
							Issue
Yes	No	Unknown	Issue	Yes	No	Unknown	Issue
_ v:v-\-			Ground Water Pathway Threat				Direct Exposure Pathway Threat
		,	Surface Water Pathway Threat				Air Pathway Threat
			Release Or Threat Of Release				A Facility Or Vessel
			Hazardous Substance, Pollutant, or Contaminant		,		Subject To Response Limitations
			Quantity Or Concentration Warrant Response				Exposure To Hazardous Substances Or Pollutants Or Contaminants
			Drums, Barrels Or Bulk Containers Present				High Levels Of Contaminants In Surface Soils
			Site Susceptible To Adverse Weather Conditions				Threat Of Fire Or Explosion
			Willing/Capable PRP Response	·			Referred To Another Program
COMM	ENT:	<u> </u>		<u>-l</u>			
VII. AI	DITION	AL INFORMA	ATION OR COMMENTS				
						•	
		<u>.</u>				• .	
		*	•				
	1250 54		EPA USI	E ONLY.			
	is the standard			ASAT M			高等等等的用的背景。
					•		

VIII. DETERMINATION SIGNATURE: Cald In Inpension DATE: 2/11/03 Name/Title/Office / DNR Cartoninated Site Section

