



Site  
Investigation  
Report  
Review

SIRR Report  
for  
Unassigned Uncontrolled Sites

SIRR ID O09-0004

Site Name DIESEL FUEL UNLOADING FACILITY, WAVERLY

Screening Activity Initial Site Screening

City Location Waverly

Site Type Other

County Bremer

**SITE INFORMATION**

Property Owner Mike Litterer

Mailing Address 1002 Adams Parkway  
P.O. Box 329  
Waverly, Iowa 50677

Location/Legal Description SE corner of 2nd Avenue NE and 2nd Street NE  
T91 R14W Section 2

HUD: 0708020208  
Quad: Waverly 7.5'

Latitude: 42.7223  
Longitude: 92.4653

Size Of Property 0.12 acres

Report Prepared By Apex Environmental

Date Report Submitted 02/15/2005

Report Submitted By Apex Environmental

Current Usage Power Plant

**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.)

Environmental consultant Terracon conducted a limited site assessment at the site in 1998. Diesel was identified in the soil sample collected at boring B4, 5,400 mg/kg. Analysis from soil samples collected from soil borings B2, B3, and B5 did not identify any petroleum above applicable statewide standards.

Environmental consultant Apex Environmental conducted soil and groundwater sampling in September 2004 at the site. Four borings were advanced to bedrock and soil samples were collected at the depth that exhibited the highest PID reading. The soil samples were submitted for OA2 analysis only due to the history of diesel fuel storage. No groundwater samples were collected.

In January 2005, monitoring well MW1 was advanced to 40' bgs and within five feet in the assumed down gradient direction of boring B1. Soil and groundwater samples were collected and analyzed for OA1 and OA2.



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### 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.)

Three aboveground storage tanks were installed in the 1940s. The tanks held diesel fuel only. Fuel was unloaded to the tanks from the railroad tracks. The tanks were removed in 1986. The railroad tracks have been since removed and the old rail line is a public bike and walking path.

Waverly Light and Power are considering disposal of 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)

Soils at the site are identified as lean clay and sand with bedrock at a depth of approximately 10 feet. The bedrock is Devonian.

The hydraulic conductivity at the site is 1.91 m/d, thus the site is a protected groundwater source. According to Iowa Administrative Code, a protected groundwater source is an area in which a drinking water well may be installed because the flow of groundwater is sufficient for water use (i.e., the hydraulic conductivity is greater than 0.44 m/d).

Depth to groundwater is approximately 27.58 feet.

## REVIEW SUMMARY

### Contaminant Type

#### 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.

Analysis from the soil samples collected in September 2004 are as follows:

mg/kg	Diesel	Waste Oil
B1-8'	2,550	807
B1-10'	4,380	806
B2-3'	<10	<10
B3-3'	105	596
B4-4'	728	2,900

The applicable soil statewide standard for diesel is 3,800 mg/kg. There is no standard for waste oil.

Analysis of soil sample collected from monitoring well MW1 at 7' bgs in January 2005 did not identify petroleum (OA1 or OA2) contamination above applicable statewide standards.

Analysis from the groundwater sample collected at monitoring well MW7 in January 2005 identified diesel contamination at 3,660 ug/L. The applicable statewide standard for diesel is 75,000 ug/L. Waste oil was also identified in the groundwater sample collected from MW7 at 885 ug/L. The applicable statewide standard for motor oil is 40,000 ug/L. Petroleum contamination (OA1) was not identified in the groundwater sample collected from MW7.

#### 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.

According to the City of Waverly, all water mains in the city are ductile iron.



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A IGSB well search identified two public municipal wells within 500 feet of the site. However, according to Alan Ellwanger, Senior Water Operator with the City of Waverly, both wells were plugged in the early 1990's. According to ArcView, no wells, other than the two plugged municipal wells, were identified to exist within a 1000' radius of the site.

Based on LUST site 9LTA62, groundwater flow in the area is southwest.

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

According to the samples collected, diesel contamination has been identified in soil above the applicable statewide standards. However, because no receptors have been identified to exist within a 1000' radius of the site, there does not seem to be a threat to human health and the environment. Thus, no further action is necessary and additional investigation is not required.

### PRIORITY LEVEL

Priority Level 3

### PROGRAM AUTHORITY REFERRAL

Program Authority Referral No Further Action

Other Referral Chapter 135

ISS/Form Completed By Jessica R. Montana

ESS Completed B

Date ISS Completed

Date ESS Completed

Date Completed

Form Reviewed

Date Reviewed

4/4/05

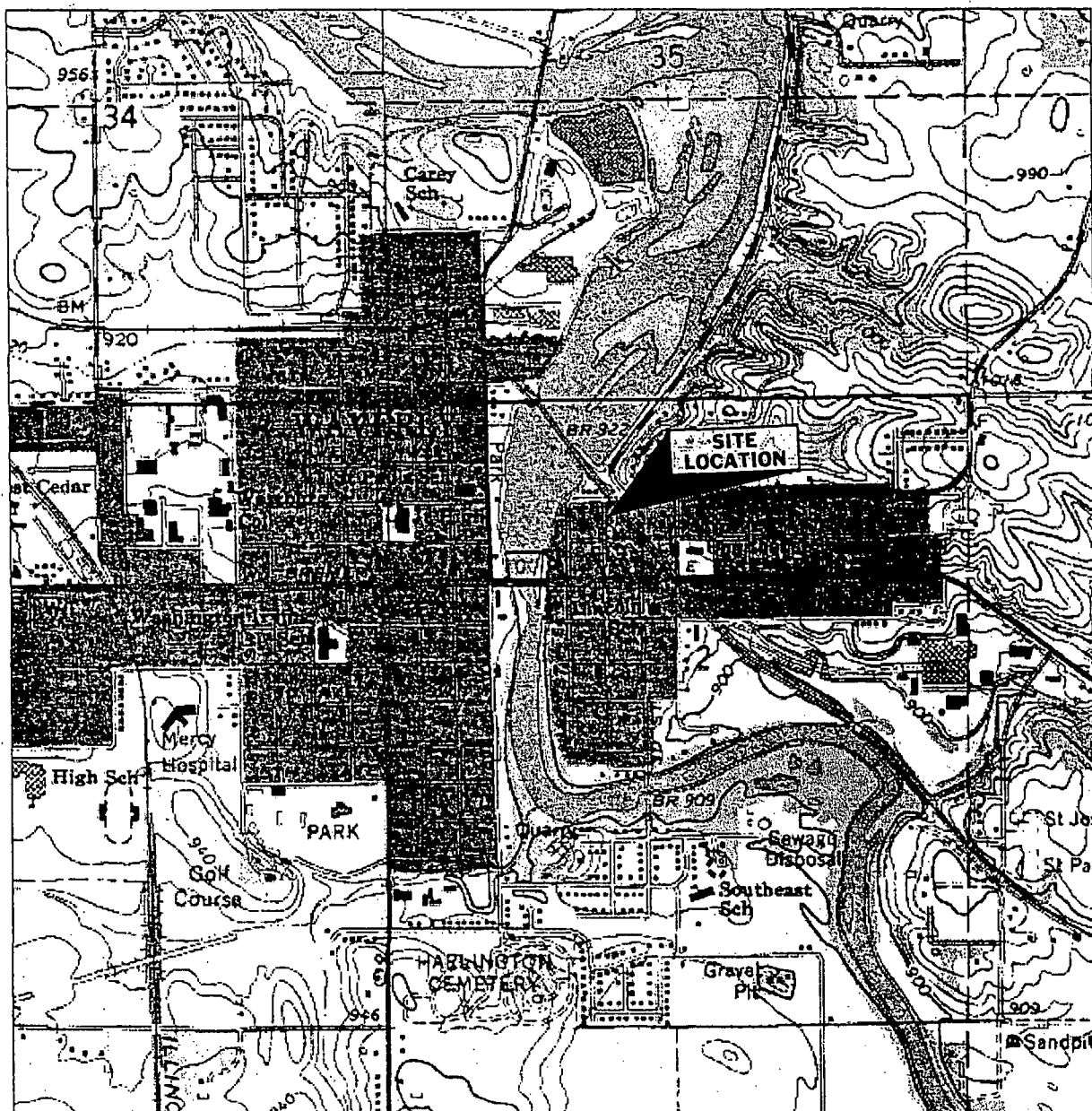
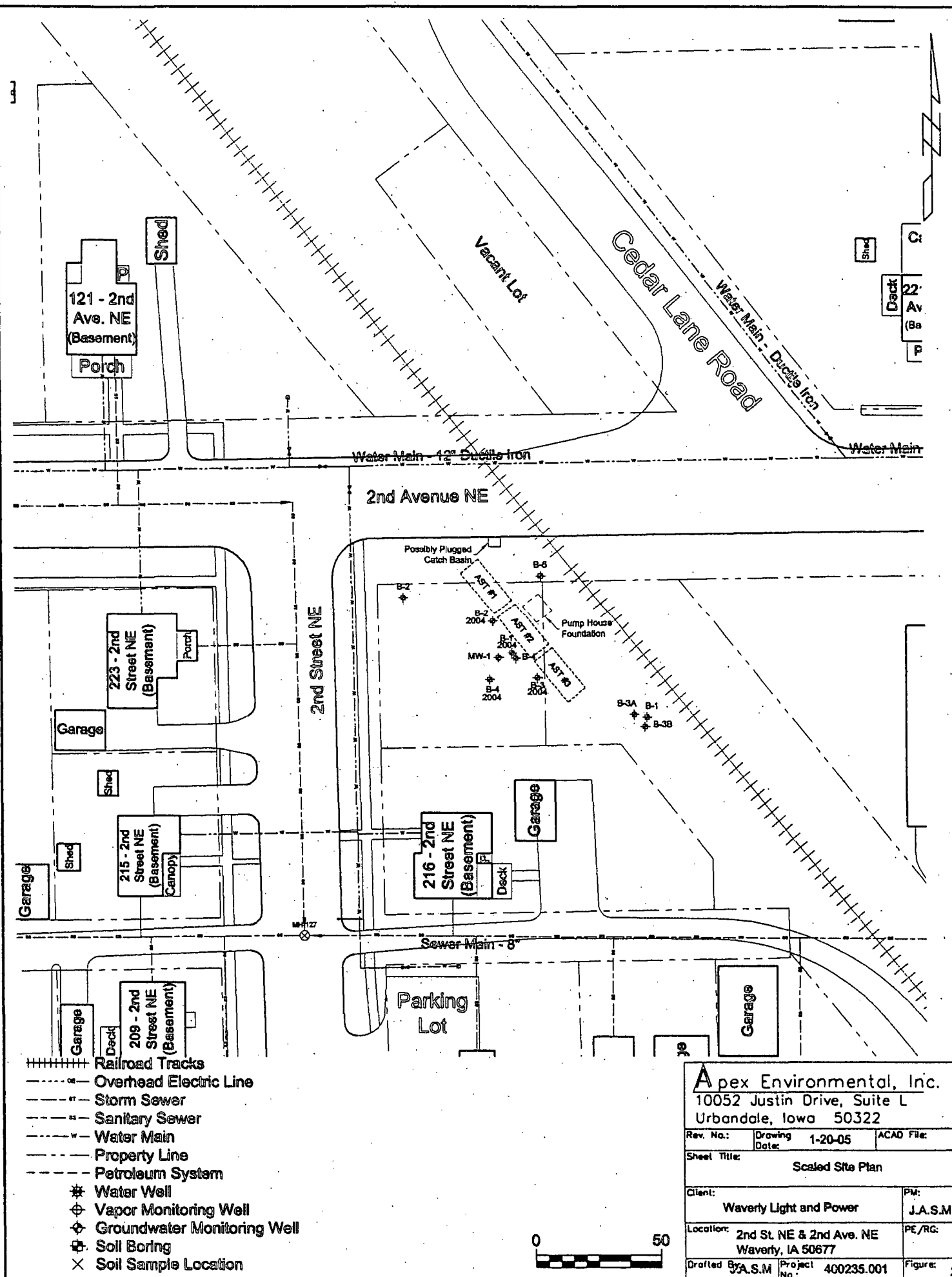


Figure 1. Topographic Map





## REGION VII U.S. EPA SUPERFUND

## SITE DISCOVERY ENTRY FORM

Discovery Date: 02/15/05

Discovery Lead (choose one):

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

Site Name: Diesel Fuel Unloading Facility, Waverly

Initiated Date: 02/15/05

Identified By: ☐ Removal ☒ Site Assessment ☐ States☐ Fed. Facilitie ☐ Brownfields ☐ Other Fed. AgencyAddress: SE Corner 2<sup>nd</sup> Ave. & 2<sup>nd</sup> St. County Name: Bremer

City, State, Zip: Waverly, Iowa 50677

State ID (if one exists): 009-0004

Congressional District: 1

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 SiteSection: ☐ 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-(IANE) 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-35 North to exit 165. Take right off of exit and follow IA-3 to Clarion. Take I-218 North, turn right on 190<sup>th</sup> St. Turn left on Hawthorne St.

Site Description: Power Plant

Site Size: 0.12

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

USGS Quadrant: Waverly

USGS Hydro Unit: 0708020208

Latitude: 42.7223

Longitude: 92.4653

(With the release of 3.9 lat/long are in Decimal Degree format)

Lat/Long Accuracy: ☐ Seconds ☐ Miles ☐ Feet ☐ Degrees  
☐ Minutes ☐ Kilometers ☒ MetersLat/Long Source: ☐ EPA Region 7 ☐ EPIC ☐ Dun & Bradstreet  
☐ Regulated Entity ☐ Private ☐ Geograph ☐ State  
☐ SNAP ☒ Other ☐ Other Fed Agency ☐ Tribe  
☐ Contractor ☐ EPA HQ ☐ UnknownOwner ☐ 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  
☐ MunicipalityOperational Status: ☒ Active ☐ Inactive ☐ Unknown  
Incident Type: ☐ Non-Oil Spill ☐ Oil Spill ☒ Unknown

Non-NPL Status (Choose one):

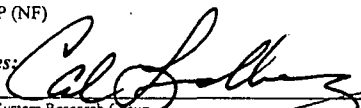
☐ Addressed as part of NPL site (AX)  
☐ Combined PA/SI Ongoing (CO)  
☐ Deferral of NPL Listing Dec. While States  
☐ Oversee Resp. (SD)  
☐ ESI Ongoing (EO)  
☐ ESI Start Needed (ES)  
☐ Fed Fac ESI Review Start Needed (FE)  
☐ Fed Fac Prelim Assessment Rev Ongoing (PG)  
☐ Fed Fac Prelim Assessment 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:  
☐ 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

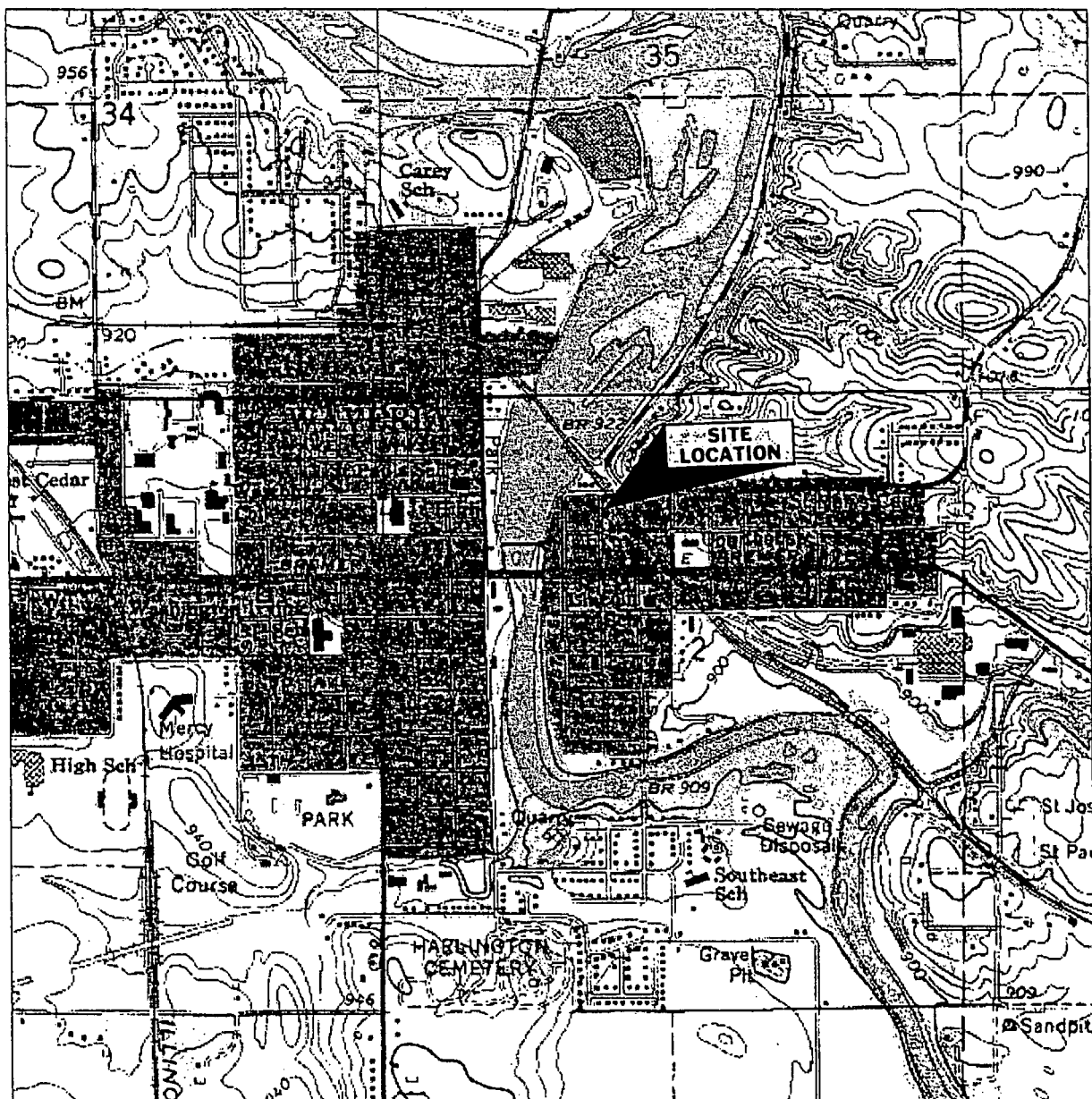
☐ **MP-Manufacturing/Processing/Maintenance** - Applicable sub-categories:☐ CA-Chemicals and allied products  
☐ CG-Coal gasification  
☐ CP-Coke production  
☐ EP-Electric power generation and distribution.  
☐ EE-Electronic/electrical equipment  
☐ FT-Fabrics/textiles  
☐ LW-Lumber and wood products/pulp and paper  
☐ WP-Lumber and wood products/wood preserving/treatment  
☐ MF-Metal fabrication/finishing/coating and allied industries  
☐ OR-Oil and gas refining  
☐ OP-Ordinance 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)☒ **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  
☐ 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: 4/4/05 RPM/OSC/SAM:

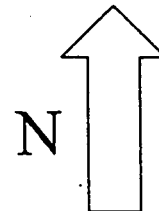
Date: / /

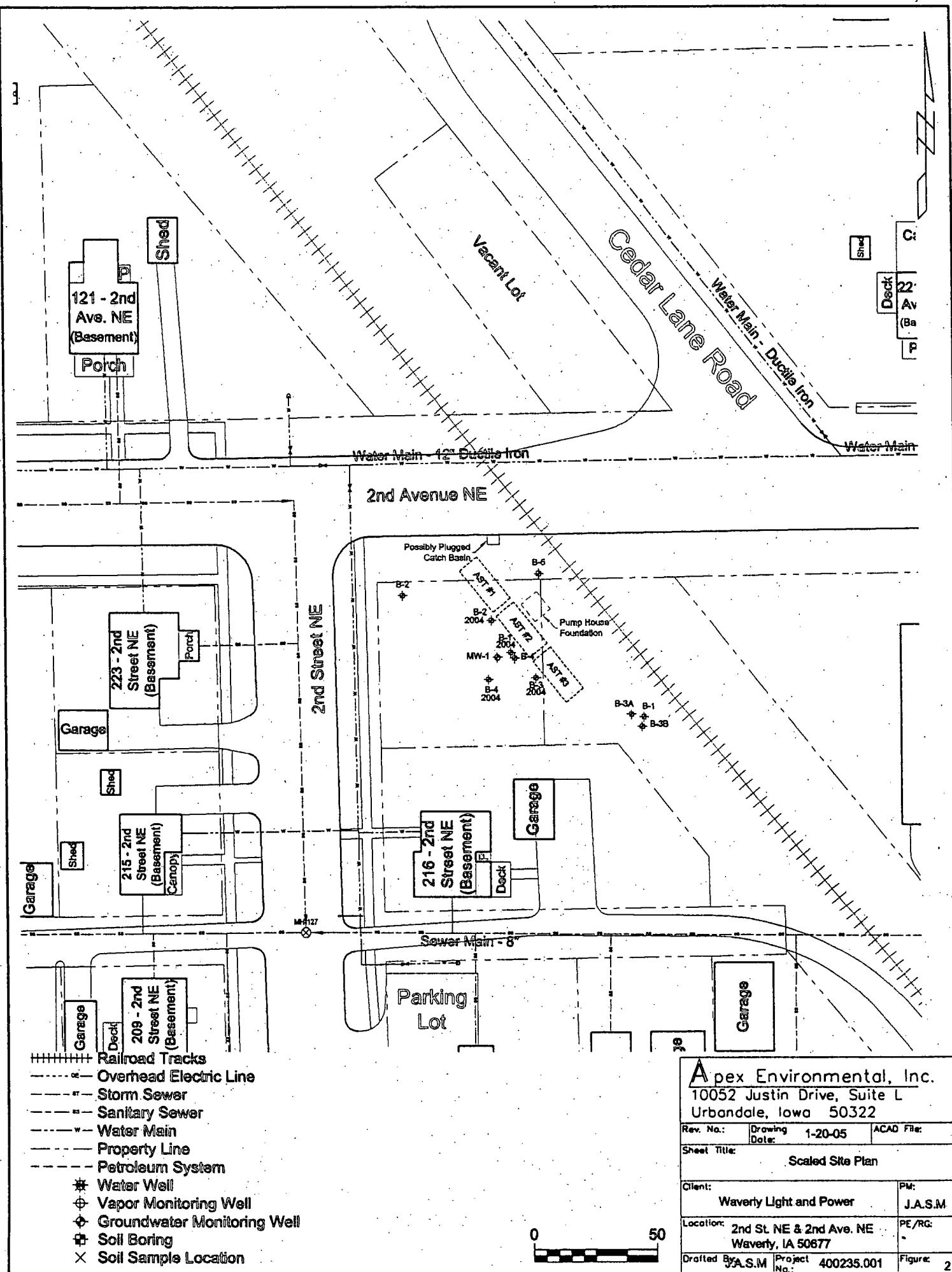
Updated by System Research Group



0 100 200 500m  
0 500 1,000 2,000ft.

Figure 1. Topographic Map







## 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 March 25, 2005  
 (Name/Title) (Date)  
900 E. Grand Avenue 515-281-8934  
 (Address) (Phone)  
jessica.montana@dnr.state.ia.us  
 (E-mail Address)

**Site Name:** Diesel Fuel Unloading, Waverly

**Previous Names (if any):** n/a

**Site Location:** SE Corner 2<sup>nd</sup> Avenue NE and 2<sup>nd</sup> Street SE  
 (Street)  
Waverly IA 50677  
 (City) (ST) (Zip)

**Latitude:** 42.7223 **Longitude:** 92.4653

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:

Diesel is the only hazardous substance stored at the site.

- 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:**

According to the samples collected, diesel contamination has been identified in soil and groundwater above the applicable statewide standards. However, because no receptors have been identified to exist within a 1000' radius of the site, there does not seem to be a threat to human health and the environment. Thus, no further action is necessary and additional investigation is not required.

**Regional EPA Reviewer:**

**State Agency/Tribe:**

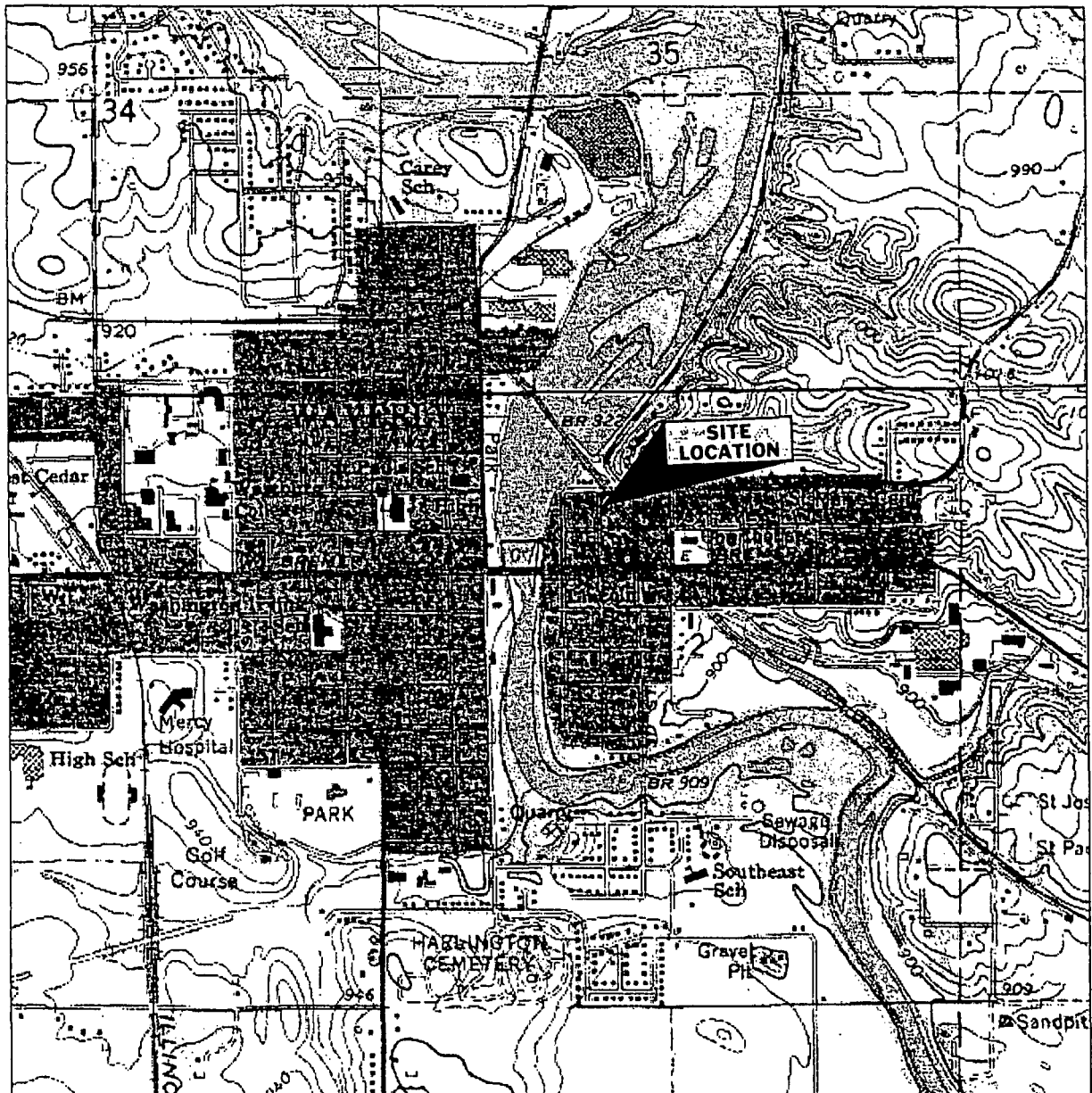
Print Name/Signature

Date

Print Name/Signature

Date

CAL LUNDGREN  
CAL LUNDGREN  
4/4/05



0 100 200 500m  
0 500 1000 2000ft.

Figure 1. Topographic Map

