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Howard R. Green Company

PHASE I ENVIRONMENTAL SITE ASSESSMENT

FORMER CHAMBERLAIN MANUFACTURING PROPERTY
550 ESTHER STREET
PARCEL ID 8913-13-176-002
WATERLOO, IOWA

MAY 2004

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EPA BROWNFIELDS ASSESSMENT GRANT

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550 ESTHER STREET
PARCEL ID 8913-13-176-002
WATERLOO, IOWA**

HOWARD R. GREEN COMPANY PROJECT NO. 722930J23

Prepared for:

**Mr. Don Temeyer
City of Waterloo**

MAY 2004

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1.0 EXECUTIVE SUMMARY

1.1 Investigative Findings

Howard R. Green Company was retained by the City of Waterloo (City) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 550 Esther Street, in the City of Waterloo and County of Black Hawk, Iowa (Appendix A, Figure 1).

The property is described by the Black Hawk County Assessor's office as Parcel ID 8913-13-176-002 with a legal description as follows:

A parcel of land located in parts of Block numbers 1, 10 and 11, Logan Dale Heights, Blocks 10, 11, 15 and 16 Enterprise Place, and Block 6 North Waterloo Place, the SW ¼ of Section 13 Township 89 North Range 13 West and vacant streets and alleys described as follows: Beginning at the NW corner of Lot 16 Block 10, said Logan Dale Heights, then E along southerly line of Anita St a distance of 138 feet then N a distance of 547.46 feet to NW corner of Lot 1 Block 1 said Logan Dale Heights then E a distance of 178.05 feet to NW corner Block 10 said Enterprise Place then N a distance of 50 feet to the SW corner of Block 9 said Enterprise Place then E along northerly line of vacant Louise St. a distance of 324 feet to SW corner block 8 said Enterprise Place then S a distance of 50 feet to NW corner of Block 11 said Enterprise Place then E along the southerly line of Louise St. a distance of 99.88 feet then S a distance of 191.30 feet then S 37° 41' 53" E a distance of 380.80 feet to SW corner of Block 12 said Enterprise Place then S a distance of 204 feet to northerly line of Block 16 said Enterprise Place then S 32° 37' 07" W a distance of 492.37 feet then S 14° 45' 05" E a distance of 239.21 feet then N 76° 47' 05" W a distance of 14.81 feet then S 10° 43' 42" W a distance of 40 feet to the northerly line of Waterloo RR Company then westerly along a curve concave southerly and having a radius of 1838.82 feet and long chord bearing north 84° 36' 33" W a distance of 342.55 feet then W along said northerly ROW line a distance of 399.21 feet to easterly line of E. 4th St. then N along the easterly line of E. 4th St. a distance of 188.92 feet to the NW corner of Lot 9 Block 11 said Logan Dale Heights then E a distance of 119.54 feet to the NE corner of Lot 9 Block 11 said Logan Dale Heights then south a distance of 149.89 feet to the SE corner of Lot 7 Block 11 said Logan Dale Heights then E a distance of 14 feet to the SW corner of Lot 6 Block 11 said Logan Dale Heights then N a distance of 359.80 feet to the SW corner of Lot 8 Block 10 said Logan Dale Heights then W a distance of 14 feet to the SE corner of Lot 9 Block 10 said Logan Dale Heights then N along the easterly line of Lot numbers 9 and 10 Block 10 said Logan Dale Heights a distance of 65.03 feet then W a distance of 121.40 feet to the easterly line of E. 4th St. then N along the easterly line of E 4th St. a distance of 335.28 feet to the point of beginning and also Lot 12 Block 11 said Logan Dale Heights.

Multiple industrial lots comprise the subject site and total 22.8 acres. Currently, the site is unoccupied and contains multiple single-story and two-story industrial buildings and warehouses constructed between 1919 and the early 1990s. Previous industrial businesses (EPA, 1996) are tabulated below:

Owner	Date	Products Manufactured
Floyd Chamberlain Waterloo, IA As of 1929, Chamberlain Corp.	1919-1934	Metal washer wringers
American Wringers Co. Woonsocket, RI	1934-1953	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Waterloo Register Waterloo, IA (Property east of creek)	1938	Unknown
Ambrook Industries Location unknown	1953	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Chamberlain Manufacturing Corp. Location unknown	1953-1978	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Duchossois Industries, Inc. Elmhurst, IL	1978-1996	Projectile metal parts

According to the current owner, Ron Vose, the site was purchased in 1996 by Atlas Warehouse, LLC to use for storage for parts for John Deere. John Deere later moved its warehousing contract out of state (Vose, 2004).

The visual inspection of the property was conducted on February 9 and 11, 2004, guided by Gary Wilcox of the Black Hawk County Solid Waste Commission and former Chamberlain Manufacturing Corporation employee. The subject site itself is a recognized environmental condition (REC) with numerous areas of concern (AOCs) due to the historical uses and material storage at the site. The processes used, material stored, and waste generated to manufacture washer wringers, aluminum awnings, munitions and ordnance present a potential for environmental contamination.

The results of the database searches and historical research identified three properties with RECs in the ASTM search distances from the subject site. None of these three sites have the potential to impact the site because of their location downgradient, or across Virden Creek from the subject site.

1.2 Recommendations

Based on the records review, interviews, on-site inspection, and historic information available at the time of this Phase I ESA, Howard R. Green Company recommends the following actions:

- 1) Retain a licensed radiation consultant to perform a radiation survey on areas where radioactive materials were stored or handled.
- 2) Perform a survey with Ground Penetrating Radar (GPR) to identify the location of the buried drums.
- 3) Perform an asbestos survey of building materials.
- 4) Perform an inventory, including sampling, of on-site drums.

5) Collect samples in AOCs at the subject site per the following table:

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3a	1-1	Aluminum machining	14	SVOCs, VOCs, metals, PCBs				
3a	1-2	Secondary containment	14	SVOCs, VOCs, metals, PCBs				
3a	1-3	Parts washing	18	VOCs, metals,				
3a	1-4	Steel cutting	18	SVOCs, VOCs, metals, PCBs				
3a	1-5	Stored/drained oily cuttings	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-6	Container storage area	Ext	SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide			
3a	1-7	90-day hazardous waste storage	19	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-8	DU storage, shipping, receiving	21	VOCs, uranium isotopes, explosives				
3a	1-9	Aluminum machining	21	SVOCs, VOCs, metals, PCBs				
3a	1-10	Solvent storage tank	21	VOCs	VOCs			
3a	1-11	Heating oil/waste oil ASTs	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-12	Pump island	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-13	Bitumen tank	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-14	Cooling tower/pump house	Ext	SVOCs	SVOCs			
3a	1-15	Disturbed ground/possible buried drums	Ext	SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide			
3a	1-16	Foundry sand fill	Ext	SVOCs, metals, PCBs				
3a	1-17	Well #3	Ext		SVOCs, VOCs, metals			

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Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3a	1-18	North Outfall (#001)	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3a	1-19	Hazardous waste storage	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-20	Parts washing	18	VOCS, metals				
3a	1-21	Parts washing	14	VOCS, metals				
3a	1-22	10,000-gal waste oil UST	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-23	Degreasing	21	SVOCs, VOCs, metals, PCBs				
3a	1-24	Degreasing	21	SVOCs, VOCs, metals, PCBs				
3a	1-25	Paint drying area	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-26	Paint booth	21	SVOCs, VOCs, metals				
3a	1-27	Paint booth	21	SVOCs, VOCs, metals				
3a	1-28	500-gal gasoline UST	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-29	Disturbed ground	Ext	SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide			
3b	2-1	Phosphate conversion	10	VOCs				
3b	2-2	Paint booth	10	SVOCs, VOCs, metals				
3b	2-3	Tile/ carpet/ mastic/ ceiling tile	10					asbestos
3b	2-4	Hazardous materials storage	10	SVOCs, VOCs, metals, PCBs				
3b	2-5	Acid rinsing	10	metals, cyanide				
3b	2-6	Industrial x-ray	10	metals, uranium isotopes				uranium isotopes
3b	2-7	R&D warhead assembly	22	VOCs, uranium isotopes, explosives				uranium isotopes
3b	2-8	Stored/ drained oily cuttings	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3b	2-9	PCBS storage	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3b	2-10	Paint booth	10	SVOCs, VOCs, metals				
3c	3-1	Solvent vault	3	VOCs				
3c	3-2	Paint storage	3	SVOCs, VOCs, metals				
3c	3-3	Chlorinated solvent vapor degreaser	3	SVOCs, VOCs, metals				
3c	3-4	R&D assembly	3	VOCs, uranium isotopes, explosives				uranium isotopes
3c	3-5	Photo developing	3	VOCs, metals				
3c	3-6	Tile/ carpet/ mastic/ ceiling tile	3					asbestos
3c	3-7	R&D area	3	VOCs, uranium isotopes, explosives				
3c	3-8	Parts washing	3	VOCs, metals				
3c	3-9	Alkaline paint stripping	3	VOCs				
3c	3-10	Patriot missile assembly	3	VOCs, metals, uranium isotopes, explosives				
3c	3-11	Grease trap	1	SVOCs, VOCs, metals				
3c	3-12	Gage lab/ vent hood/ former DU area	3	VOCs, metals, uranium isotopes, explosives				asbestos, uranium isotopes
3c	3-13	Cement wall board	3					asbestos
3c	3-14	Metallurgy lab/ vent hood/ countertop	1	SVOCs, VOCs, metals				asbestos
3c	3-15	Disturbed ground	Ext	SVOCs, VOCs, metals, cyanide				
3d	4-1	Floor drains	4			SVOCs, VOCs, metals, PCBs		
3d	4-2	Vent hood	4					asbestos
3d	4-3	Former equipment location	4	SVOCs, VOCs, metals, PCBs				
3d	4-4	Welding	4	VOCs, metals				
3d	4-5	Transformers	4	SVOCs, PCBs				
3d	4-6	French drain	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			

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Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3d	4-7	Floor drains (concreted in)	6	SVOCs, VOCs, metals, PCBs				
3d	4-8	Not used						
3d	4-9	Floor drains (filled w/ sediment)	8			SVOCs, VOCs, metals, PCBs		
3d	4-10	Laboratory	8	SVOCs, VOCs, metals				asbestos
3d	4-11	Floor tile/ mastic/ ceiling tile	8					asbestos
3d	4-12	Wastewater treatment	11	VOCs, metals				
3d	4-13	Hard coat anodizing	11	metals				
3d	4-14	Buried tank cars (4)	11	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3d	4-15	Sewer line break/ repair	11	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3d	4-16	Waste oil piping manifold	11	SVOCs, VOCs, metals, PCBs				
3d	4-17	Waste oil storage/ recycling	11	SVOCs, VOCs, metals, PCBs				
3d	4-18	Parts washing	9	VOCs, metals				
3d	4-19	Parts washing	9	VOCs, metals				
3d	4-20	Parts washing	4	VOCs, metals				
3d	4-21	Parts washing	5	VOCs, metals				
3d	4-22	Sludge drying oven	8	SVOCs, metals				
3d	4-23	Sanborn Unit	9	SVOCs, VOCs, metals, PCBs				
3d	4-24	10,000-gal UST (filled in place)	9	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3d	4-25	Well #1	8		SVOCs, VOCs, metals			
3d	4-26	Forklift repair	5	SVOCs, VOCs, metals				
3d	4-27	Chrome plating	8	metals				
3d	4-28	Machining	8	SVOCs, VOCs, metals, PCBs				
3d	4-29	Paint/ solvent/ chemical storage	6	SVOCs, VOCs, metals				
3e	5-1	DU shell assembly	12	VOCs, uranium isotopes, explosives				uranium isotopes
3e	5-2	Open floor drains	12			VOCs, uranium		uranium isotopes

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
						isotopes, explosives		
3e	5-3	Transite siding	12					asbestos
3e	5-4	Sulfuric acid release	Ext	metals	metals			
3e	5-5	Substation	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-6	Rail spur	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-7	Hydraulic oil tanks	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-8	Secondary containment—sulfuric acid	Ext	metals	metals			
3e	5-9	Outfall 002	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3e	5-10	Solvent recovery	12	VOCs, metals				
3e	5-11	Outfall 002	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3e	5-12	Metal scrap storage	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3e	5-13	Bitumen tank	Ext	SVOCs, VOCs	SVOCs, VOCs			
3f	6-1	Heat treating furnaces	13					asbestos
3f	6-2	Former press pits	13	SVOCs, VOCs, metals, PCBs				
3f	6-3	DU painting room	13	SVOCs, VOCs, uranium isotopes, explosives				uranium isotopes
3f	6-4	Metal finishing lines	13	SVOCs, VOCs, metals, PCBs				
3f	6-5	DU storage	13	VOCs, uranium isotopes, explosives				uranium isotopes
3f	6-6	Sludge drying oven	13	SVOCs, metals				
3f	6-7	Leaking hydraulic oil drums	15	SVOCs, metals, PCBs				

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Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3f	6-8	Filled trench drains	15	SVOCs, VOCs, metals, PCBs				
3f	6-9	Furnace w/ potential asbestos	15					asbestos
3f	6-10	Floor tile/ mastic	15					asbestos
3f	6-11	Sump	15			SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide	
3f	6-12	Oil storage/ recycling	15	SVOCs, VOCs, metals, PCBs				
3f	6-13	Sludge drying oven	15	SVOCs, metals				
3f	6-14	Drum storage	20	SVOCs, VOCs, metals, PCBs				
3f	6-15	Equipment cleaning	16	SVOCs, VOCs, metals, PCBs				
3f	6-16	Filled trench drain	17	SVOCs, VOCs, metals, PCBs				
3f	6-17	Paint booth	17	SVOCs, VOCs, metals				
3f	6-18	Hazardous waste staging	15	SVOCs, VOCs, metals, PCBs				
3f	6-19	Parts washing	15	VOCs, metals				
3f	6-20	Parts washing	15	VOCs, metals				
3f	6-21	Zinc electroplating	13	SVOCs, VOCs, metals, PCBs				
3f	6-22	Pit sludge treatment	15	SVOCs, VOCs, metals, PCBs				
3f	6-23	Annealing furnaces	15	SVOCs, VOCs, metals, PCBs				
3f	6-24	Well #2	13		SVOCs, VOCs, metals, PCBs			
3f	6-25	Paint booth	13	SVOCs, VOCs, metals				
3f	6-26	Grated sump	20			SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide	

2.0 INTRODUCTION

2.1 Purpose and Intent

The purpose of this report is to document the information obtained during the completion of a Phase I Environmental Site Assessment in accordance with the Standard Practice of the ASTM, Designation E-1527-00, for the property located at 550 Esther Street in Waterloo, Iowa.

Conclusions regarding potential environmental risks or particular events and practices are limited by the quality and quantity of information provided by available historical documents, the visual site inspection, and other sources listed as contacts and references in Appendix B. The findings and conclusions stated herein must be considered, not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the ESA. The conclusions and opinions stated herein do not represent or warrant that the subject property is free from contamination, pollution, or environmental problems.

This report has been prepared on behalf of and for the use of the City and the United States Environmental Protection Agency (EPA), solely for use in evaluating the potential "*recognized environmental conditions*" on or adjacent to the subject site. RECs are defined in ASTM E-1527-00 as: "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

The conclusions and opinions stated herein are based in part on the information from persons other than Howard R. Green Company. It is impossible to assure the sufficiency or accuracy of all such information for the City and there is a risk involved in relying on or using such information because of the inherent limitations of the method of gathering such information and/or because of errors, omissions, or inaccuracies, which may exist in the information. Howard R. Green Company does not warrant, guarantee, or represent the accuracy or sufficiency of the information furnished by other persons or the fitness of such information for any particular purpose.

The intent of this Phase I ESA is to assist the City in evaluating actual or perceived environmental impairments associated with the subject. The goal of the Chamberlain project is to eliminate false perceptions and gather data that will allow the City and community to plan and manage this potentially environmentally impaired property. In doing so, the City will be able to obtain its goal under the EPA Brownfields Initiative Cooperative Agreement to identify the economical and technical viability of redevelopment. In addition, should the City pursue acquisition of the site, the City will meet the requirements of the bona fide prospective purchaser provisions of the Comprehensive Environmental Response and Liability Act's (CERCLA) innocent landowner defense, and the contiguous property owner and all appropriate inquiry due

diligence under the Small Business Liability Relief and Brownfields Revitalization Act.

2.2 Scope of Work

The approved scope of work for conducting Phase I ESAs under the EPA Cooperative Agreement is based in part on meeting the guidelines presented in the ASTM E 1527-00 document. The four main tasks of a Phase I ESA are as follows:

- Historical records review of onsite and surrounding land use,
- Search of federal, state, and local environmental databases,
- Onsite and surrounding area reconnaissance, and
- Interviews with current and past property owners and/or representatives.

2.2.1 Site History

Documents reviewed as part of the site's historical research may include, previous ESAs, documents from the Iowa Department of Natural Resources (IDNR) and Geological Survey Bureau (IGSB), Environmental Protection Agency, Iowa Department of Public Health, City of Waterloo Zoning and Planning, Fire, and Public Works Departments. In addition, aerial photographs, Sanborn maps, city directories, plat maps, and abstracts of title, will be reviewed if available.

2.2.2 File Review

An environmental report will be obtained from a federal and state database "record review" information provider.

2.2.3 Site Investigation

Pending a signed access agreement, a visit will be made to the subject property to investigate any or all of the following:

- Location of aboveground and/or underground petroleum and/or chemical storage tanks,
- Chemical and hazardous materials use and storage areas,
- Waste disposal and treatment practices, including leaching pits, evaporation ponds, and other impoundments,
- Evidence of vegetative distress, soil discoloration, surface subsidence, or other environmental damage,
- Buried septic systems, cesspools, drywells, or holding tanks,
- Drinking water, process, irrigation, and/or monitoring wells,
- Location of buildings and other structures,
- Location of aboveground and underground utilities,
- Presence of potentially PCB-containing equipment,
- Presence and condition of potentially asbestos or lead containing materials,
- Evidence of non-permitted or unreported land use activities, and
- Surrounding land use.

All suspect activities and conditions will be photographed and included in the appendices of the report.

2.2.4 Interviews

As part of the Phase I ESA process, attempts will be made to interview representatives from the IDNR, City Fire and Public Works Departments, County Human Services Health Department, and past and present property owners to compile accurate information regarding past and present environmental conditions.

Based on the availability of data on a particular site, the scope of work may be modified to address any deficiencies or to fully evaluate all the pertinent information in order meet the City's goals. Upon completion of the four above-mentioned tasks, a written report summarizing all the collected data will be submitted to the City and EPA. The report will be available to the public in electronic and written format through the City of Waterloo.

2.3 Limiting Conditions and Methodology Used

Pursuant to Section 12.1.4 of ASTM Standard Practice, the following is a list of non-scope considerations that the user may want to assess in connection with commercial real estate transactions. No implication is intended as to the relative importance of inquiry into such non-scope considerations, and this list is not intended to be all-inclusive:

- Asbestos - Containing Materials
- Radon
- Lead Based Paint
- Lead in Drinking Water
- Wetlands
- Regulatory Compliance
- Cultural and Historic Resources
- Industrial Hygiene
- Ecological Resources
- Endangered Species
- Indoor Air Quality
- High Voltage Power Lines

Mr. Ronn Beebe, Mr. Ted McCaslin, Ms. Melissa Edsill, and Ms. Cynthia Quast of Howard R. Green Company conducted the site reconnaissance of the subject site on March 9 and Beebe and McCaslin continued the site reconnaissance on March 11, 2004.

1. Interior Methodology: Only easily accessible areas were inspected during the site inspection conducted by Howard R. Green Company personnel.
2. Interior Limiting Conditions: Howard R. Green Company personnel accessed no confined spaces located on the subject property or surrounding area. No samples of potentially suspect materials were collected for laboratory analyses.

3. Exterior Methodology: The subject property was observed in the company of a former employee, now with the Black Hawk County Solid Waste Commission, on March 9 and 11, 2004. The surrounding area was observed during a walking and driving tour by Howard R. Green Company personnel on March 9 and 11, 2004.
4. Exterior Limiting Conditions: No samples of potentially suspect materials were collected for laboratory analyses. Off-site properties with potential to impact the subject site were identified during the drive-through reconnaissance.

3.0 PHYSICAL SETTING

3.1 Location

The subject site is located within the SW ¼ of Section 13 Township 89 North Range 13 West in Black Hawk County, Iowa, and is further located by the latitude and longitude at 42° 31' 16.7" North and 92° 19' 56.6" West. Figure 1 (Appendix A) is a copy of the Waterloo North US Geological Survey (USGS) 7.5-minute topographic maps showing the general location of the subject property.

The irregular-shaped site contains approximately 22.8 acres at 550 Esther Street in the City of Waterloo and is summarized from the county assessor as follows:

A parcel of land located in parts of Block numbers 1, 10 and 11, Logan Dale Heights, Blocks 10, 11, 15 and 16 Enterprise Place, and Block 6 North Waterloo Place, the SW ¼ of Section 13 Township 89 North Range 13 West and vacant streets and alleys described as follows: Beginning at the NW corner of Lot 16 Block 10, said Logan Dale Heights, then E along southerly line of Anita St a distance of 138 feet then N a distance of 547.46 feet to NW corner of Lot 1 Block 1 said Logan Dale Heights then E a distance of 178.05 feet to NW corner Block 10 said Enterprise Place then N a distance of 50 feet to the SW corner of Block 9 said Enterprise Place then Et along northerly line of vacant Louise St. a distance of 324 feet to SW corner block 8 said Enterprise Place then S a distance of 50 feet to NW corner of Block 11 said Enterprise Place then E along the southerly line of Louise St. a distance of 99.88 feet then S a distance of 191.30 feet then S 37° 41' 53" E a distance of 380.80 feet to SW corner of Block 12 said Enterprise Place then S a distance of 204 feet to northerly line of Block 16 said Enterprise Place then S 32° 37' 07" W a distance of 492.37 feet then S 14° 45' 05" E a distance of 239.21 feet then N 76° 47' 05" W a distance of 14.81 feet then S 10° 43' 42" W a distance of 40 feet to the northerly line of Waterloo RR Company then westerly along a curve concave southerly and having a radius of 1838.82 feet and long chord bearing north 84° 36' 33" W a distance of 342.55 feet then W along said northerly ROW line a distance of 399.21 feet to easterly line of E. 4th St. then N along the easterly line of E. 4th St. a distance of 188.92 feet to the NW corner of Lot 9 Block 11 said Logan Dale Heights then E a distance of 119.54 feet to the NE corner of Lot 9 Block 11 said Logan Dale Heights then south a distance of 149.89 feet to the SE corner of Lot 7 Block 11 said Logan Dale Heights then E a distance of 14 feet to the SW corner of Lot 6 Block 11 said Logan Dale Heights then N a distance of 359.80 feet to the SW corner of Lot 8 Block 10 said Logan Dale Heights then W a distance of 14 feet to the SE corner of Lot 9 Block 10 said Logan Dale Heights then N along the easterly line of Lot numbers 9 and 10 Block 10 said Logan Dale Heights a distance of 65.03 feet then W a distance of 121.40 feet to the easterly line of E. 4th St. then N along the easterly line of E 4th St. a distance of 335.28 feet to the point of beginning and also Lot 12 Block 11 said Logan Dale Heights.

Figure 2 in Appendix A, illustrates the shape and approximate size of the subject property in relationship to the surrounding parcels.

The subject site is zoned Heavy Industrial (M-2) by the City of Waterloo, and located approximately 100 feet west of Virden Creek, at its closest point, and one mile northeast of the Cedar River. Gates Park adjoins the subject site to the north across Louise Street, to the east across Virden Creek and to the south across the tracks belonging to the Waterloo Railroad Company. Residences are located across E. 4th Street to the west. Residences are also located along the east side of E. 4th Street between Esther and Louise Streets.

3.2 Regional Setting

3.2.1 Regional Topography

The Waterloo North USGS 7-1/2 Minute Topographic Quadrangle map shows the surrounding area to be relatively flat with a gentle slope to the southwest at approximately 0.006 feet per foot. The elevation of the surrounding area is approximately 870 feet above mean sea level (msl). The primary regional drainage features are Virden Creek, approximately 100 feet to the east, and the Cedar River, approximately one mile to the southwest.

3.2.2 Regional Geology

The City of Waterloo is located in the dissected till plains of the central lowlands province. The dissected till plains include all the glaciated areas of the state and the loess-covered till and bedrock adjoining the Cedar River.

The US Soil Conservation Service classifies the soils within the region as the Sparta loamy fine sand series (EPA, 1996). This series consists of nearly level to moderately steep, excessively drained soils on alluvial terrace and uplands. These soils formed in sand deposited mainly by wind. The Sparta soils have a rapid permeability and a low water capability. About 60 to 100 feet of sand and gravel deposits lie below the Sparta soils and above the limestone bedrock.

Well logs indicate the area is underlain to a depth of about 1,200 feet by Ordovician, Silurian, Devonian, and Quaternary-age deposits. Ordovician rock units are about 1,000 feet thick. Ordovician rock units are as follows in ascending order: the Oneota and Shakopee formations, consisting of 343 feet of arenaceous, cherty dolomite; the St. Peter formation, consisting of 47 feet of well-rounded, friable quartzose sandstone; the Platteville formation, consisting of 100 feet of limestone with interbedded shale; the Decorah formation, composed of 225 feet of cherty limestone; and the Maquoketa formation, consisting of 230 feet of dolomitic shale.

The Silurian-age sediments are about 102 feet thick and consist of the following in ascending order: The Mosalem formation, consisting of 75 feet of cherty dolomite; the Blanding formation, consisting of 75 feet of cherty dolomite; and the Hopkinton formation consisting of 17 feet of silty dolomite.

The Devonian-age sediments are about 125 feet thick and are composed of the Wapsipinicon and Cedar Valley formations. The Wapsipinicon formation consists of 75 feet of arenaceous, cherty limestone and dolomite. The Cedar Valley formation consists of limestone dolomite formations overlying Maquoketa Shale (EPA, 1996).

3.2.3 Regional Hydrogeology

Groundwater is found in unconsolidated and consolidated aquifers in the area. Well logs indicate the water table to be about 27 feet below ground surface (bgs). Groundwater in both the unconsolidated deposits and the Silurian and Devonian rock units is likely to flow to the southwest toward the Cedar River (EPA, 1996).

No continuous confining layer separates the sands, gravels, and limestones of the water-bearing formations from the bedrock, so these units are believed to be hydrologically connected. Therefore, the unconsolidated and consolidated aquifers have the potential to be affected by contaminant releases.

A cluster of private water wells is located approximately $\frac{1}{4}$ mile east southeast of the site. The depths of these wells range from 85 to 250 feet bgs.

Waterloo municipal well number 22 is located approximately $\frac{1}{4}$ mile north northeast of the site as is a USGS monitoring well. Both are completed in the Devonian limestone.

A second cluster of private water wells is located approximately $\frac{3}{4}$ mile west of the site. The depths of three of the wells are reported as 176 feet bgs. The depths of the remaining three wells are not reported.

3.3 Local Setting

3.3.1 Site Topography

The Waterloo North USGS 7-1/2 Minute Quadrangle map shows the subject property to be flat with an elevation of approximately 870 feet above msl. Storm water runoff from the northeast portion of the facility discharges to National Pollution Discharge Elimination System (NPDES) Outfall 001. The east-central and central portions of the facility discharge storm water runoff to NPDES Outfall 002. Storm water runoff from the northwest and west-central portion of the facility discharges to NPDES Outfall 003 (EPA, 1996). The Flood Insurance Rate Map (FIRM, 1985) indicates that the site is protected from the flooding of Virden Creek by the dike along the creek.

3.3.2 Local Geology

The USDA Soil Conservation Service describes the onsite soils as Spillville loam which has a moderate infiltration rate. The deeper and moderately deep soils are moderately well and well drained with moderately coarse textures.

Typically the upper 54 inches consists of loam with an AASHTO Group classification of silt-clay and a Unified Soil Classification of fine-grained soils. The permeability ranges from 0.6 to 2.0 inches per hour (in/hr). Soils from 54 to 60 inches bgs have a soil texture class of sandy clay loam in the AASHTO Group silt-clay and a Unified Soil Classification of fine-grained soils. The permeability of this layer ranges from 0.6 to 6.0 in/hr. Deeper soils range from coarse sand to gravelly coarse sand (EPA, 1996).

The bedrock beneath the subject site has been described as belonging to the Middle Devonian Series. Depth to bedrock is estimated to range from 65 to 100 feet bgs locally.

4.0 SITE CHARACTERISTICS

4.1 Land Use

4.1.1 Historical

The Sanborn Fire Insurance Maps (EDR, 1950) of the City show the subject site was industrially developed with residential lots, some with residences lining both sides of E. 4th Street west of the facility. Undeveloped residential lots are also present on the north side of the facility, which is currently part of Gates Park. Electroplating, assembly, warehouse, machine shop, and parts washing areas at Chamberlain are clearly marked on the map. The Sanborn map indicates the facility was heated with steam and powered with electricity.

4.1.2 Present

The County Assessor's office lists the subject site as being:

A parcel of land located in parts of Block numbers 1, 10 and 11, Logan Dale Heights, Blocks 10, 11, 15 and 16 Enterprise Place, and Block 6 North Waterloo Place, the SW ¼ of Section 13 Township 89 North Range 13 West and vacant streets and alleys described as follows: Beginning at the NW corner of Lot 16 Block 10, said Logan Dale Heights, then E along southerly line of Anita St a distance of 138 feet then N a distance of 547.46 feet to NW corner of Lot 1 Block 1 said Logan Dale Heights then E a distance of 178.05 feet to NW corner Block 10 said Enterprise Place then N a distance of 50 feet to the SW corner of Block 9 said Enterprise Place then E along northerly line of vacant Louise St. a distance of 324 feet to SW corner block 8 said Enterprise Place then S a distance of 50 feet to NW corner of Block 11 said Enterprise Place then E along the southerly line of Louise St. a distance of 99.88 feet then S a distance of 191.30 feet then S 37° 41' 53" E a distance of 380.80 feet to SW corner of Block 12 said Enterprise Place then S a distance of 204 feet to northerly line of Block 16 said Enterprise Place then S 32° 37' 07" W a distance of 492.37 feet then S 14° 45' 05" E a distance of 239.21 feet then N 76° 47' 05" W a distance of 14.81 feet then S 10° 43' 42" W a distance of 40 feet to the northerly line of Waterloo RR Company then westerly along a curve concave southerly and having a radius of 1838.82 feet and long chord bearing north 84° 36' 33" W a distance of 342.55 feet then W along said northerly ROW line a distance of 399.21 feet to easterly line of E. 4th St. then N along the easterly line of E. 4th St. a distance of 188.92 feet to the NW corner of Lot 9 Block 11 said Logan Dale Heights then E a distance of 119.54 feet to the NE corner of Lot 9 Block 11 said Logan Dale Heights then south a distance of 149.89 feet to the SE corner of Lot 7 Block 11 said Logan Dale Heights then E a distance of 14 feet to the SW corner of Lot 6 Block 11 said Logan Dale Heights then N a distance of 359.80 feet to the SW corner of Lot 8 Block 10 said Logan Dale Heights then W a distance of 14 feet to the SE corner of Lot 9 Block 10 said Logan Dale Heights then N along the easterly line of Lot numbers 9 and 10 Block 10 said Logan Dale Heights a distance of 65.03 feet then W a distance of 121.40 feet to the easterly line of E. 4th St. then N along the easterly line of E 4th St. a distance of 335.28 feet to the point of beginning and also Lot 12 Block 11 said Logan Dale Heights.

Atlas Warehouse, LLC, owns the property. The property is currently zoned general heavy industrial (M-2).

The subject site is located between E. 4th Street on the west and Virden Creek on the east and between Louise Street on the north and Gates Park on the South. The 22.8-acre site is unoccupied except for one warehouse used for storage by the current owner.

4.1.3 Structures

Multiple single and two-story buildings occupy the site and were numbered 1 through 22 by Chamberlain Manufacturing. The buildings were gradually added between 1919 and 1994. The total square footage is approximately 500,000 and was protected by a wet sprinkler system. East of the buildings along E. 4th Street is a paved parking area. The north part of the property is accessed through a gate on Louise Street. This area is paved and was used for truck access to the loading dock area. A rail spur from the Waterloo Railroad enters the site from the south between Buildings 7 and 12 and extends to the north the length of the facility.

Because of the various ages of the buildings, construction varies from wood framing to steel framing. Floors are all concrete with numerous trench drains and sumps. Some of the trench drains have been filled with concrete. Others have been filled with sediment through the years. Sumps, filled and unfilled are located throughout the facility.

The wells for manufacturing use are located on the site. The well depths vary from 180 to 250 feet bgs.

4.1.4 Utilities

The subject property is currently served by public water from the Waterloo Water Works Company, municipal sewer, natural gas and electric by MidAmerican Energy and local telephone utilities.

4.2 Hazardous Materials

Hazardous materials are those manufactured or natural substances that in normal use can damage the human health and well being of the environment. Such materials cover a broad range of substances, which are classified as toxic, corrosive, flammable, explosive, reactive, or radioactive.

4.2.1 Use

The historic processes at the facility had the potential to use various hazardous materials. Those processes and the materials associated with them are tabulated below:

	SVOCs/BNAs	VOCs	Metals	PCBs	Explosives	Uranium isotopes	Cyanide
Acid rinsing		X					X
Alkaline paint stripping		X					
Annealing furnaces	X	X	X	X			
Chlorinated solvent vapor degreasing	X	X					
Chrome plating		X					
Cooling tower/pump house	X						
Degreasing	X	X	X	X			
Depleted uranium (DU) shell assembly		X			X	X	
DU painting	X	X	X	X		X	
Electrical substation	X	X	X	X			
Equipment cleaning/maintenance	X	X	X	X			
Fuel dispensing	X	X	X				
Gage lab		X				X	
Hard coat anodizing			X				
Industrial X-ray			X			X	
Laboratory	X	X	X				
Metal Machining/Cutting	X	X	X	X			
Metallurgy lab	X	X	X	X		X	
Painting	X	X	X				
Parts washing		X	X				
Phosphate conversion/preparation		X					
Photo developing		X	X				
Pit sludge treatment	X	X	X	X			
Press pits	X	X	X	X			X
R&D assembly		X			X	X	
Rail spur	X	X	X	X			
Sanborn Unit	X	X	X	X			
Sludge drying	X		X				
Solvent recovery	X	X	X				
Warhead/missile assembly		X			X	X	
Wastewater treatment		X	X	X			
Welding		X	X				

US EPA ARCHIVE DOCUMENT

4.2.2 Storage

The Chamberlain site had numerous storage locations for various hazardous substances. Those substances and the contaminants associated with them are tabulated below:

	SVOCs/BNAs	VOCs	Metals	PCBs	Explosives	Uranium isotopes
90-day hazardous waste storage	X	X	X	X		
Drum storage	X	X	X	X		
DU storage/shipping/receiving		X			X	X
Hazardous material storage	X	X	X	X		
Hydraulic oil storage	X		X	X		
Metal scrap storage	X	X	X	X		
Paint storage	X	X	X			
Polychlorinated biphenyl (PCB) storage	X	X	X	X		
Solvent vault		X				
Storage of oily metal cuttings	X	X	X	X		

4.3 Storage Tanks

4.3.1 Aboveground Storage Tanks (ASTs)

The IDNR does not require ASTs to be registered. The Iowa State Fire Marshall's office does require all planned new construction of ASTs be registered, construction plans approved, and the installation inspected after 1990. Registration for ASTs installed prior 1990 is voluntary. The registration with the fire Marshall's office is a one-time event.

Facilities with an underground storage capacity of over 42,000 gallons, that transfer oil over water, that maintain a total above ground capacity of over 1,320 gallons, and/or that have a single container with a capacity over 660 gallons are required under the Federal Water Pollution Control Act to have a Spill Prevention Control and Countermeasure Plan (SPCC) prepared by a licensed engineer and available onsite. These requirements are identified as Title 40, Code of Federal Regulations, Part 112 (40 CFR Part 112). This requirement is not applicable to this facility.

Eight ASTs were observed or known to have existed on the subject site. Those ASTs and the contaminants associated with them are tabulated below:

	SVOCs/BNAs	VOCs	Metals	PCBs
Bituminous storage	X	X	X	
Heating oil	X	X	X	X
Hydraulic oil	X		X	X
Solvent tank		X		
Sulfuric acid			X	
Tank of unknown contents	X	X	X	X
Waste oil	X	X	X	X
Waste oil storage/recycling	X	X	X	X

4.3.2 Underground Storage Tanks

Underground storage tanks (USTs) are tanks that store regulated substance and have at least 10% of their volume beneath the ground surface, including the associated piping. A regulated substance is a compound, solution, or element, which if released to the environment, may present danger to the public health, welfare or environment. These include petroleum, substances classified as hazardous under Resource Conservation and Recovery Act (RCRA), and substances regulated under CERCLA.

The IDNR requires that all USTs with a capacity of over 1,100 gallons must be registered and comply with 567 Iowa Administrative Code (IAC) Chapter 135. The exceptions include a tank that: 1) contains heating oil for onsite consumption, 2) is used as a septic tank, 3) is used as a flow through process tank, 4) is located in an underground area such as a basement, 5) contains regulated substances used for operational purposes of equipment such as hydraulic lifts and elevators, 6) has an emergency spill or overflow containment structure, which will be emptied immediately, 7) is part of water treatment system, or 8) part of a petroleum pipeline facility.

Seven USTs were located on the subject site.

	Construction	Installed	Status per IDNR records	SVOCs/BNAs	VOCs	Metals	PCBs
10,000-gallon waste oil	Steel	1975	Removed 1988	X	X	X	
7,500-gallon heating oil (buried rail tank car)	Steel	1939	Closed 1988	X	X	X	
7,500-gallon heating oil (buried rail tank car)	Steel	1939	Closed 1988	X	X	X	
7,500-gallon heating oil (buried rail tank car)	Steel	1939	Closed 1988	X	X	X	
7,500-gallon heating oil (buried rail tank car)	Steel	1939	Closed 1988	X	X	X	
10,000-gallon unknown contents	Steel	1939	Removed 1988	X	X	X	X
500-gallon gasoline	Steel	Unknown	Removed 1988	X	X	X	

4.4 Asbestos Containing Materials (ACMs)

Based on reconnaissance of the facility buildings, the potential for building asbestos containing materials is very high. Many areas contain floor tile, ceiling tile, and glued carpet. Some remaining equipment such as furnaces and vent hoods also has the potential for ACM. An asbestos abatement was conducted while the site was still in operation, however; only materials considered friable were removed during that abatement.

4.5 Lead Paint

Most of the facility buildings located on the subject property were constructed prior to the 1980s during which lead-based building materials were phased-out. Many surfaces observed during the reconnaissance exhibited peeling layers of paint.

4.6 Potential Polychlorinated Biphenyl Sources

Several electrical transformers were observed on site. Transformers typically contained polychlorinated biphenyls (PCBs), a commonly used in dielectric fluid prior to 1979. PCB manufacturing was phased-out during the mid-1980s. The federal government recognized PCBs as a hazardous substance under the Toxic Substance Control Act (TSCA). Transformers containing concentrations of PCBs over 500 parts per million (ppm) are considered PCB contaminated. Transformers with a PCB concentration between 50 to 499 ppm are considered impacted. Transformers with a PCB concentration of less than 50 ppm are considered non-PCB containing.

The Iowa Department of Public Health (IDPH) conducted a PCB inspection at Chamberlain on April 18, 1990 (EPA, 1996). IDPH randomly chose Chamberlain for the inspection under a cooperative agreement between the State of Iowa and EPA. During this inspection IDPH made the following observations:

- Chamberlain failed to maintain annual documents for year 1978 to 1986
- Chamberlain failed to register PCB transformers with fire response personnel.
- Chamberlain failed to inspect PCB transformers and maintain records.

IDPH conducted a follow-up PCB inspection at Chamberlain on August 29, 1990 and determined that Chamberlain had acted as a user, broker, commercial storage facility, disposer, and as an agent for the government in the use of PCBs. Chamberlain provided a signed state outlining the same facts. EPA issued a notice of compliance to Chamberlain on October 9, 1990, stating the facility was in compliance with the PCB final rule.

4.7 Solid Waste

The solid waste companies providing service to the Chamberlain site have varied over the years. At the time of the plant closing, Denver Construction was providing solid waste pick-up. The facility also used Black Hawk Waste Disposal in the past.

4.8 Sensitive Receptors

There are three groundwater wells onsite used for plant production. Additionally the facility is located adjacent to Virden Creek, which is 100 feet away at its closest point. Virden Creek is a tributary to the Cedar River

4.9 Wastewater and Effluent Discharges

The City of Waterloo issued Industrial Wastewater Permit 81487-1 to Chamberlain in mid-1987 (EPA, 1996). The permit authorized Chamberlain to discharge industrial wastewater to the City of Waterloo sewage system. On May 15, 1988, IDNR issued Water Use Permit 4982-R1 to Chamberlain for the withdrawal of water from existing on-site wells. On November 1, 1988 IDNR issued NPDES Permit 07-90-1-10 to Chamberlain for the discharge of noncontact cooling water and surface storm water runoff to Virden Creek through Outfalls 001, 002, and 003. Virden Creek is a tributary of

the Cedar River. The following table summarizes the water discharge regulatory highlights at the Chamberlain facility.

WATER DISCHARGE REGULATORY HIGHLIGHTS		
Date	Description	Discharge Type
March 1, 1983	Chamberlain Manufacturing Corporation (CMC) submitted an industrial waste information questionnaire stating that it discharged 206,600 gallons of cooling process and sanitary wastewater per day to the sanitary sewer and 322,000 gallons of cooling wastewater per day to surface water.	Publicly Owned Treatment Works (POTW)
1987	CMC was issued Industrial Wastewater Discharge Permit 81487-1 by the City of Waterloo Water Pollution Control Division.	POTW
June 16, 1987	CMC released between 100 and 150 gallons of a 25% sulfuric acid solution to the sanitary sewer due to a leak in an anodize tank. CMC contacted city officials immediately and supplied a copy of the incident report to the city on July 7, 1987.	POTW
November 6, 1987	CMC informed the City of Waterloo that it had exceeded the allowable maximum zinc values for Outfall 003 and the allowable maximum oil/grease values for Outfalls 001 and 003.	POTW
December 3, 1987	CMC informed the City of Waterloo that during November 1987 it had exceeded maximum allowable values for oil/grease, zinc, suspended solids, and pH.	POTW
1988	The City of Waterloo issued a public notice of significant industrial pollution noncompliance to CMC for violations of the requirements of 40 CFR § 403. Eight monthly averages for zinc exceeded the allowable monthly average during 1987. As a result of violations, CMC was to complete a phased compliance schedule.	POTW
January 7, 1988	CMC informed the City of Waterloo that it had exceeded the allowable limits for the zinc content and had not met pH requirements in Outfalls 001 and 003 during December 1987.	POTW
February 9, 1988	CMC informed the City of Waterloo that it had not met the pH and zinc discharge requirements for Outfall 001 or the zinc discharge requirements for Outfall 003 during January 1988.	POTW
March 4, 1988	CMC informed the City of Waterloo that the pH value for Outfall 003 exceeded the maximum allowable pH on one occasion during February 1988.	POTW
April 8, 1988	CMC informed the City of Waterloo that once during March 1988 the pH and zinc discharge requirements were not met for Outfall 001, and once the zinc discharge requirements for Outfall 003 were not met.	POTW
June 24, 1988	IDNR conducted an industrial user inspection of the facility to follow up on CMC's citation for being in significant noncompliance with the pretreatment program. IDNR advised CMC to continue working with the city to come into compliance with categorical standards for the industry.	POTW
October 27, 1988	CMC discharged between 1,600 and 2,000 gallons of hard coat system process water to the sanitary sewer. The discharge had a pH of 2.5 and a chromium content of 160 parts per million (ppm). CMC notified the city of the discharge by telephone and in writing on October 31, 1988.	POTW
November 1, 1988	IDNR issued NPDES Permit 07-90-0-10 to CMC. The permit covered the release of non-contact cooling water and surface storm water runoff to Virden Creek, a tributary of the Cedar River, through Outfalls 001, 002, and 003.	POTW
March 9, 1989	IDNR conducted an industrial user inspection at CMC. The facility was found to be in significant noncompliance due to zinc violations in 1988, including six average zinc violations and nine maximum zinc violations. CMC was also found to be in significant noncompliance with pretreatment standards because it did not have flow proportional monitoring.	POTW
April 7, 1989	The City of Waterloo informed CMC that it had issued a public notice of significant industrial pollution noncompliance for violations of the	POTW

WATER DISCHARGE REGULATORY HIGHLIGHTS		
Date	Description	Discharge Type
	requirements of 40 CFR § 403. During 1988, CMC exceeded effluent permit limits, failed to satisfy the monitoring.	
June 13, 1989	CMC combined its three outfalls to the sanitary sewer system and diverted the discharge to a common sampling and flow monitoring manhole.	POTW
March 22, 1990	IDNR conducted an industrial user inspection at CMC. All compliance areas were found to be satisfactory.	POTW

4.10 Permitted Air Releases

Chamberlain obtained permits to install or alter equipment or control equipment for numerous emission sources (EPA, 1996). In 1977, the state issued a preliminary notice of violation to Chamberlain for air permit violations. During a routine inspection of the Chamberlain facility on October 20, 1980, the Iowa Department of Environmental Quality (IDEQ), now known as IDNR, noted several nonpermitted emission sources. Later IDEQ determined that six of these emission sources required permits. In November 1981, IDEQ initiated legal proceedings to collect a penalty from Chamberlain for the violations. The following table summarizes the air releases highlights at the Chamberlain facility.

AIR RELEASES REGULATORY HIGHLIGHTS	
Date	Description
October 19, 1977	IDEQ issued a preliminary notice to CMC for air permit violations.
October 20, 1980	IDEQ conducted a routine plant inspection at CMC. Several emission sources that did not have permits to install or alter equipment or control equipment were noted. This was CMC's second permit violation.
February 3, 1981	CMC applied for an IDEQ Permit to Install or Alter Equipment or Control Equipment for the black oxide finish system. IDEQ determined that a permit was not necessary.
February 4, 1981	CMC applied for an IDEQ Permit to Install or Alter Equipment or Control Equipment for an electric batch draw furnace with a nitrogen atmosphere. IDEQ determined that a permit was not necessary.
February 5, 1981	CMC requested an exemption from permit from IDEQ for three Holcroft annealing furnaces and three Holcroft stress relief furnaces.
February 11, 1981	CMC applied for an IDEQ Permit to Install or Alter Equipment or Control Equipment for a sodium hydroxide cleaning tank. IDEQ determined that a permit was not necessary.
April 9, 1981	IDEQ granted an exemption from permit to CMC for three Holcroft annealing furnaces and three Holcroft stress relief furnaces.
April 9, 1981	IDEQ issued Permits to Install or Alter Equipment or Control Equipment 81-A-033 to CMC for a water wash spray booth, 81-A-034 for a bag filter in the rotary table shot blast, 81-A-035 for a four-stage horizontal wet-type scrubber for the hard coat anodize facility, 81-A-036 for a four-stage horizontal wet-type scrubber in the hard coat anodize facility, and 81-A-037 for a four-stage horizontal wet-type scrubber in the hard coat anodize facility.
June 8, 1981	IDEQ issued a Permit to Install or Alter Equipment or Control Equipment to CMC for a water wash air scrubber.
November 1981	IDEQ composed a litigation report summarizing CMC's violations of air regulations. CMC had six unpermitted emission sources that required permits. IDEQ was seeking to collect a penalty of \$7,500 from CMC for these violations.
June 28, 1983	IDEQ issued Permits to Install or Alter Equipment or Control Equipment 8e-A-065 to CMC for a phosphoric acid cleaner tank and 83-A-064 for a silver brazing operation.
August 31, 1983	IDEQ issued Permit to Install or Alter Equipment or Control Equipment 83-A-129 to CMC for an electric induction heater.

AIR RELEASES REGULATORY HIGHLIGHTS	
Date	Description
August 7, 1984	Iowa Department of Water, Air, and Waste Management (IDWAWM) issued Permit to Install or Alter Equipment or Control Equipment 84-A-088 to CMC for a waterfall spray booth and Permit 84-A-089 for a primer booth.
June 11, 1985	CMC applied for an IDWAWM Permit to Install or Alter Equipment or Control Equipment for hoods on its fluorescent penetrant line. IDWAWM determined that a permit was not required for the hoods.
September 16, 1985	IDWAWM issued Permit to Install or Alter Equipment or Control Equipment 85-A-112 to CMC for a waterfall control booth.
May 15, 1987	IDWAWM issued Permit to Install or Alter Equipment or Control Equipment 87-A-076 to CMC for a polyvinyl chloride (PVC) vertical counter-current fume scrubber for its zinc plating system.
April 15, 1988	IDWAWM issued Permit to Install or Alter Equipment or Control Equipment 88-A-48 for a water wash paint booth.
July 29, 1988	CMC applied for an IDNR Permit to Install or Alter Equipment or Control Equipment for a solvent recovery system. IDNR determined that a permit was not required because particulates would not be emitted.
May 22, 1989	IDNR conducted an air quality compliance inspection at CMC. All sources noted were in compliance.
May 7, 1990	IDWAWM issued Permit to Install or Alter Equipment or Control Equipment 90-A-181 to CMC for a dry paint arrestor booth.
August 30, 1990	IDNR conducted an air quality compliance inspection at CMC. All sources noted were in compliance.

4.11 Resource Conservation and Recovery Act

Chamberlain was a manufacturing facility operating under RCRA regulations. The facility was a generator of hazardous waste (EPA, 1996). The following table summarizes the RCRA regulatory highlights at the Chamberlain facility.

RCRA REGULATORY HIGHLIGHTS	
Date	Description
January 7, 1981	CMC submitted an Iowa hazardous waste survey questionnaire stating that it generated 100 pounds per year of paint residue classified as F017 by EPA.
January 26, 1984	CMC submitted a subsequent notification of hazardous waste activity.
February 26, 1986	CMC submitted a Biennial Hazardous Waste Report for 1985, stating it was a generator of D002 and K062 hazardous waste, which was treated on site.
October 28, 1986	An EPA RCRA compliance monitoring inspection (CMI) revealed numerous CFR violations.
June 30, 1987	EPA issued a Complaint, Compliance Orders, and Notice of Opportunity for Hearing requiring CMC to comply with a list of requirements to bring itself into compliance, including submitting a closure plan for its hazardous waste storage area.
April 20, 1988	CMC submitted a subsequent notification of hazardous waste activity identifying itself as a burner of waste oil for fuel.
June 29, 1988	CMC submitted a Biennial Hazardous Waste Report for 1987.
September 21, 1988	An EPA RCRA CMI revealed that two satellite accumulation containers for waste paint-related materials had open funnels in the large bungholes.
April 7, 1989	CMC received final approval from EPA on its closure plan.
June 27, 1989	An EPA RCRA CMI revealed no CFR violations.
January 9, 1990	EPA notified CMC that contaminated soil generated by closure activities at the site was being stored in a manner that created a new waste management unit. EPA required a closure plan notification.
February 28, 1990	An EPA RCRA sampling inspection revealed four CFR violations involving documentation in its contingency plan.

RCRA REGULATORY HIGHLIGHTS	
Date	Description
March 1, 1990	CMC submitted a Biennial Hazardous Waste Report for 1989.
March 29, 1990	EPA sent a Consent Agreement and Consent Order and Closure Plan Modification to CMC for signature and execution.
March 27, 1991	EPA acknowledged that CMC had accomplished closure in accordance with the approved closure plan.
June 5, 1991	CMC amended a portion of its 1989 Biennial Hazardous Waste Report regarding the amount of F019 waste generated and shipped in 1989.
November 19 and 20, 1991	An EPA RCRA CEI was conducted that revealed numerous CFR violations including improper completion of hazardous waste manifests, improper labeling of hazardous waste containers, incomplete documentation of training records, and incomplete information its SPCC plan.

4.12 Other Conditions

Based on the age of the structure, building materials may contain formaldehyde. As long as this material is intact and/or encapsulated, and isolated from the occupants, there are no regulatory concerns. Health and regulatory concerns arise when this material is disturbed or disposed of.

5.0 ADJOINING PROPERTY RECONNAISSANCE

5.1 Land Use

5.1.1 Zoning

The property zoning in the surrounding area is a mixture of residential and public land uses. The adjoining properties are zoned residential and agricultural (A-1). (Parks in the City of Waterloo are zoned A-1). The zoning has not changed since the original zoning was adopted in 1969.

5.1.2 Present

The adjoining property to the north, east and south is currently a city park. Residences and E. 4th Street adjoin the property to the west.

5.1.3 Past

Historically, either vacant land or residential dwellings from prior to the 1940s to present have occupied the adjacent properties to the north, south, east, and west of the subject site. The adjoining property to the north, east and south was agricultural land and undeveloped woods until between 1957 and 1964 when the City turned it into a park with a golf course. The adjoining properties to the west along E. 4th Street have consistently remained residential since the 1940s.

5.2 Visible Characteristics and Conditions

Surface runoff is routed to storm sewer catch basins in various locations throughout the facility. There was no evidence of wastewater or effluent having been discharged on the surface or subsurface of the subject site from an offsite source. Nor was there any evidence of disturbed soils that may indicate buried solid or hazardous material on the adjacent properties. No fill or vent pipes or drums were observed at the neighboring properties. The surrounding parking lots and roadways exhibited minor petroleum staining from de minimus leaks from automobiles.

6.0 RECORDS REVIEW

Information in this section is based on the specific references contained within each subsection. Sources of information may include previously conducted ESAs, historical aerial photographs, maps, and deeds; regulatory agency files and databases, commercially available databases, city directories, and other published material.

ASTM E-1527-00 requires the databases listed in the table below be searched for the specified radial distance from the subject site.

DATABASE	DISTANCE
Federal NPL List	1 Mile
Federal RCRA TSD Facility List	1 Mile
Federal CERCLIS List	0.5 Miles
Federal RCRA Generators List	Adjoining Properties
Federal ERNS	Subject Site Only
State Equivalent NPL	1 Mile
State Equivalent CERCLA	1 Mile
State Landfill	0.5 Miles
State LUST List	0.5 Miles
State UST List	Adjoining Properties

6.1 Federal Databases

Howard R. Green personnel utilized the EPA ENVIROFACTS and Geographic Information Query Systems to search EPA Databases for Facilities within 1 mile of the subject site. This was done as a check on the thoroughness of the EDR report, and is not required by ASTM Standard E-1527-00. The ENVIROFACTS and Geographic Information Query Systems search included:

- EPA RCRIS Program System Database,
- EPA PCS Program System Database,
- EPA AIRS/AFS Program System Database,
- EPA CERCLIC (Superfund) Program System Database,
- EPA TRI Program System Database, and
- Other EPA Program Databases.

The EPA Query Systems identified 14 regulated facilities, including the subject site, listed in the searched databases within 1 mile of the subject site.

Facility Name	Address	EPA ID	Activity	Contaminant
Allen Memorial Hospital	1825 Logan Avenue	110001324656	General medical and surgical hospital	Air emissions; pH
Automotive Engine and Machine	123 Clark Street	110001362070	General Automotive Repair	Air emissions; solvents, petroleum
Cedar Metal Works—former site of	1406 E. 4 th Street	110001324567	Industrial and commercial machinery and equipment	Air emissions; metals, solvents, petroleum

Facility Name	Address	EPA ID	Activity	Contaminant
Chamberlain Manufacturing Corporation—former site of	550 Esther Street	110001410946	Rolling, drawing, extruding non-ferrous metals, ammunition, ordnance	Air emissions, chromium, copper, manganese, nickel, sulfuric acid, waste oil
Chicago Central & Pacific Railroad Co.	1006 E. 4 th Street	110005732350	Railroad, railroad switching and terminal establishments	Semi-volatile organic compounds
Creataform—former site of	1430 Logan Avenue	110005746461	Unknown	Unknown
Duffys Auto Service	435 W. Parker Street	110005734214	General automotive repair	Metals, solvents, petroleum
Industrial Fabrication and Machining Incorporated	520 W. Parker Street	110001330337	Fabricated metal products; industrial and commercial machinery and equipment	Air emissions, metals, solvents, petroleum
Nelson Tester Co., Inc.	1322 David Street	110005737293	Power distribution and specialty transformer manufacturing; automotive parts and accessories	Solvents; petroleum, PCBs
Peterson Contractors, Inc.	444 Park Road	110005756976	Offices of real estate agent and brokers	Unknown
Precision Auto Body Center	1405 Logan Avenue	110005766242	Automotive body, paint, and interior repair and maintenance	Solvents, metals,
Standard Distributing Company	403 Chestnut Street	110005741803	Bottled and canned soft drinks	Solvents, petroleum, semi-volatile organic compounds
United Sandblasting Corporation	1515 David Street	110001760666	Electroplating, plating, polishing, anodizing, and coloring	Air emissions, metals, solvents
Waterloo Service Company	141 Center Street	110005762549	General automotive repair shops	Solvents, petroleum, metals

None of the off-site listings identified by the EPA Query Systems have the potential to impact the property either due to the distance from the property or the downgradient direction.

Federal and State environmental record sources were also reviewed by Environmental Data Resources, Inc. (EDR) to at least the minimum search distances established in ASTM E-1527-00. EDR specializes in the retrieval of such information. The EDR response consisted of an examination of the following databases:

Federal Databases:

EPA:

- National Priorities List (NPL)
- Proposed NPL
- Delisted NPL (DNPL)
- Resource Conservation and Recovery Act (RCRA)
- Corrective Action Reports (CORRACTS)
- Record of Decision (ROD)
- Superfund (CERCLA) Consent Decrees
- RCRA permitted Treatment, Storage, and Disposal Sites (TSD)
- Comprehensive Environmental Response, Compensation, And Liability Information System (CERCLIS)
- CERCLA No Further Remedial Action Planned (CERC NFRAP) Site
- RCRIS Small Quantity Generators of Hazardous Waste (RCRA SQG)
- RCRIS Large Quantity Generators of Hazardous Waste (RCRA LQG)
- RCRA Administrative Action Tracking System (RAATS)
- PCB Activity Database System (PADS)
- Emergency Response Notification System (ERNS)
- Facility Index System/Facility Identification Initiative Program Summary Report (FINDS)
- Toxic Chemical Release Inventory System (TRIS)
- Federal Superfund Liens (NPL Liens)
- Toxic Substance Control Act (TSCA)
- Material Licensing Tracking System (MLTS)
- Superfund Consent Decrees (CONSENT)
- A Listing of Brownfields Sites (US Brownfields)
- Department of Defense Sites (DOD)
- Section 7 Tracking System (SSTS)

Department of Labor, Mine Safety and Health Administration:

- Mines Master Index File (MINES)

US DOT:

- Hazardous Materials Information Reporting System (HMIRS)

State and Local Databases:

IDNR:

- State Hazardous Waste Sites (SHWS)
- Underground Storage Tank (UST) Sites
- State Registered Landfills (SLF)
- Leaking Underground Storage Tank (LUST) Sites

Other Data Sources:

- Land Recycling Program Sites
- Coal Gasification Sites

The EDR search report indicates "risk sites" near the subject property. A risk site is any occurrence of the target property or surrounding properties on any of the government databases searched within ASTM search distances. The location of these risk sites are illustrated on EDR's "Overview Map" in Appendix C or on Figure 3 - Potential RECs Location Map, in Appendix A.

6.1.1 NPL Database

No active, proposed, or delisted National Priority List (NPL) site was found on the federal and state databases within the one-mile ASTM search distance from the subject site.

6.1.2 CERCLA Database

There were no Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) sites were located within the 0.5 mile ASTM search distance from the subject site.

6.1.3 ERNS Database

No Emergency Response Notification System (ERNS) sites were listed on the subject site. ASTM E-1527-00 requires listing all ERNS sites that are listed at the subject property.

6.1.4 RCRA Generators Database

The subject site is listed as a RCRA small quantity generator (SQG). ASTM E-1527-00 requires listing all RCRA hazardous waste generator sites that are listed at or adjoining the subject property. No adjoining properties are RCRA generators.

6.1.5 RCRA CORRACTS/TSD Database

The subject site is listed as a RCRA CORRACTS site. No other Resource Conservation and Recovery Act Corrective Action /Treatment, Storage, or Disposal (RCRA CORRACTS/TSD) sites were listed within the one-mile ASTM search distance from the subject site.

6.1.6 TRIS/TSCA Database

There are no Toxic Chemical Release Inventory System (TRIS) sites or Toxic Substance Control Act (TSCA) sites listed within one mile of the subject site.

6.2 State of Iowa Database

EDR researched the State of Iowa databases and found the following sites described in Sections 6.2.1 through 6.2.4.

6.2.1 State of Iowa Priority List

There are no State of Iowa hazardous waste sites (SHWS), the state equivalent of a federal NPL site, identified within a mile of the subject site.

6.2.2 IDNR LUST Database

There are two leaking underground storage tank (LUST) sites listed within 0.5 mile ASTM search distance from of the subject site. These LUST sites are summarized in the table below.

Facility Name	Address	LUST ID	Status
City of Waterloo Park Commission	1601 N. Barclay	7LTD87	NFA on 8/28/97
Express Mart	1415 Logan Avenue	7LTA68	NFA on 9/25/03

The City of Waterloo site is associated with the golf course adjacent to the site. It is across Virden Creek from the subject site and is unlikely to impact the subject site. The Express Mart LUST site is down gradient from the subject site and also unlikely to impact the subject site.

6.2.3 IDNR UST Database

There are UST sites listed within the ASTM search distance of on the subject site or adjoining properties. The two UST sites are summarized in the table below.

Facility Name	Address	Registration	Status
City of Waterloo Park Commission	1601 N. Barclay	198912633	Tank closed on 12/21/1994
Chamberlain Manufacturing	550 Esther Street	198601774	6 tanks removed or filled in place

The City of Waterloo UST site is associated with the golf course adjacent to the site. It is across Virden Creek from the subject site and is unlikely to impact the subject site.

According to the IDNR UST database, the former Chamberlain site has had four heating oil tanks closed in place in 1978 and two waste oil tanks removed in 1988. All six of these closures were before current sampling requirements were in place. The IDNR database does not make note of the 500-gallon gasoline UST identified in the Underground Storage Tank section of this report. Each tank location is an area of concern for contamination.

6.2.4 Solid Waste Facility (SWF) Database

There are no State licensed landfills and/or solid waste disposal sites listed within the 0.5 mile ASTM search distance from the subject site.

6.2.5 Geological Survey Bureau Database

The IGSB databases were searched to locate landfills, wells and mines within one mile of the subject site. There are 14 Iowa Geological Survey wells, one municipal well, four non-municipal drinking water wells, eight private wells, 17 abandoned wells, one public water supply intake, four water-use permit facilities and one quarry within a mile of the subject site.

6.2.5.1 Iowa Geological Survey Bureau Well Database

This is a general well database maintained by IGSB. Fourteen wells were identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
2787	T89N R13W S24 NW SE NW	30	3/13/1947	Illinois Central Railroad	
2788	T89N R13W S24 NW SE NW	24	Unknown	Illinois Central Railroad	
2789	T89N R13W S24 NW SE NW	25	3/15/1947	Illinois Central Railroad	
2790	T89N R13W S24 NW SE NW	16	3/15/1947	Illinois Central Railroad	
4020	T89N R13W S12 SW SW	112	5/27/1949	McFarland, K. A	Bedrock depth 45 ft
4600	T89N R13W S12 SW SE	186	1/1/1949	Homan, Clarence	Bedrock depth 135 ft
16378	T89N R13W S14 NE NE NE SE NW	175	3/31/1964	Allen Memorial Hospital	Bedrock depth 35 ft; well status-unknown
17208	T89N R13W S13 NE SE NE	100	1/1/1964	Waterloo Park Commission	Bedrock depth 35 ft
22189	T89N R13W S18	200	2/8/1969	Sunnyside Country Club	Bedrock depth 145 ft.
26360	T89N R13W S13 NW SW SE	300	8/26/1980	Chamberlain Mfg. Corp.	Bedrock depth 65 ft.
26432	T89N R13W S13 SE SE SE NW	115	7/31/1981	Porky's Red Carpet	Bedrock depth 17 ft; well status-primary
31250	T89N R13W S18 SW NW SW SW	176	3/19/1990	Red Carpet Golf Club	Bedrock depth 43 ft; well status-primary
32782	T89N R13W S14 NE NE NE NW SW	200	10/11/1991	Allen Memorial Hospital	Bedrock depth 32 ft; well status-unknown
43049	T89N R13W S13 NW NE SW NE	151	1/1/1979	City of Waterloo	Bedrock depth 24 ft; well status-primary; local ID #22

6.2.5.2 Public Wells (Municipal) Database

One municipal well was identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
43049	T89N R13W S13 NW NE SW NE	151	1/1/1979	City of Waterloo	Bedrock depth 24 ft; well status-primary; local ID #22

6.2.5.3 Public Wells (Non-Municipal) Database

Four public non-municipal wells were identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
16378	T89N R13W S14 NE NE NE SE NW	175	3/31/1964	Allen Memorial Hospital	Bedrock depth 35 ft; well status-unknown
26432	T89N R13W S13 SE SE SE NW	115	7/31/1981	Porky's Red Carpet	Bedrock depth 17 ft; well status-primary
31250	T89N R13W S18 SW NW SW SW	176	3/19/1990	Red Carpet Golf Club	Bedrock depth 43 ft; well status-primary
32782	T89N R13W S14 NE NE NE NW SW	200	10/11/1991	Allen Memorial Hospital	Bedrock depth 32 ft; well status-unknown

6.2.5.4 Private Well Tracking System Database

This IDNR database manages the Grants-to-Counties wells. Eight wells were identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
2089443	Unknown	120	1/1/1964	Wrage, Marvin	Status-active; use-household; program source-well testing
2089617	T89N R13W S24 NW NE SW NW SW	Unknown	Unknown	Swanger, Richie	Status-permitted use; use-heat pump; program source-new permit
2089650	T89N R13W S12 SE SE SW SW SW	100	1/1/1950	Lovick, Paul	Status-active; use-household; program source-well testing
2089651	T89N R13W S12 SE SE SW SW NW	100	1/1/1949	Moklestad, Eric	Status-active; use-household; program source-well testing
2089652	T89N R13W S12 SE SE SE SW NE	100	1/1/1949	Weihs, Jeff	Status-active; use-household; program source-well testing
2089654	T89N R13W S12 SE SE SE SE SE	100	1/1/1958	Vander Hart, Glen	Status-active; use-household; program source-well testing
2089655	T89N R13W S7 SW SW SW SW SW	100	1/1/1964	Yard, Robert	Status-active; use-household; program source-well testing

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
2089657	T89N R13W S12 SE SE SW SE SE	60	1/1/1950	Lidie, Mike	Status-active; use-household; program source-well testing

6.2.5.5 Permitted Private Wells Database

This IDNR database lists the wells that are permitted under the Grants-to-Counties program. Three wells were identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
17382	T89N R13W S13 NE NW	90	Unknown	Unknown	Primary use-heating and air conditioning
20095	T89N R13W S14 NE	200	Unknown	Unknown	Primary use-heating and air conditioning
20117	T89N R12W S18 SW NW	160	1/19/1990	Red Carpet Golf	Primary use-irrigation

6.2.5.6 Registered Abandoned Wells Database

This IDNR database lists the wells that have been abandoned under the Grants-to-Counties program. Seventeen wells were identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
8945	T89N R13W S11 SE SE NE	66	NA	Allen Memorial Hospital	Well plugged-11/16/1992; well type-<18" dia.
14134	T89N R13W S13 SW NW SW	20	NA	Lehman, Pepsi-Cola Bottling Co., IA	Well plugged-7/30/1992; well type-<18" dia
16280	T89N R13W S24 NW SE SW	15	NA	Chicago & Pacific Railroad	Well plugged-1/12/1994; well type-unknown
23740	T89N R13W S14 NW SE SE	20	NA	Tompkins, Roger	Well plugged-4/9/1996; well type-<18" dia
36840	T89N R13W S13 SE NW SW	44	NA	Ernster & Company, Inc.	Well plugged-unknown; well type-<18" dia
40061	T89N R13W S13 SE NE SW	104	NA	Chicago Central & Pacific	Well plugged-1/18/2000; well type-<18" dia
41284	T89N R13W S23 NE NW SE	15	NA	Ultramar Diamond Shamrock	Well plugged-4/8/1999; well type-<18" dia
41285	T89N R13W S23 NE NW SE	20	NA	Ultramar Diamond Shamrock	Well plugged-4/8/1999; well type-<18" dia
41286	T89N R13W S23 NE NW SE	20	NA	Ultramar Diamond Shamrock	Well plugged-4/8/1999; well type-<18" dia
41287	T89N R13W S23 NE NW SE	20	NA	Ultramar Diamond Shamrock	Well plugged-4/8/1999; well type-<18" dia
41288	T89N R13W S23 NE NW SE	20	NA	Ultramar Diamond Shamrock	Well plugged-4/8/1999; well type-<18" dia
41289	T89N R13W	20	NA	Ultramar Diamond	Well plugged-4/8/1999;

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
42898	S23 NE NW SE T89N R13W S14 SE SW NE	23	NA	Shamrock Elite Services, Inc.	well type-<18" dia Well plugged-6/2/1999; well type-<18" dia
42899	T89N R13W S14 SE SW NE	16	NA	Elite Services, Inc.	Well plugged-6/2/1999; well type-<18" dia
42900	T89N R13W S14 SE SW NE	17	NA	Elite Services, Inc.	Well plugged-6/2/1999; well type-<18" dia
42901	T89N R13W S14 SE SW NE	15	NA	Elite Services, Inc.	Well plugged-6/2/1999; well type-<18" dia
42902	T89N R13W S14 SE SW NE	22	NA	Elite Services, Inc.	Well plugged-6/2/1999; well type-<18" dia

The wells owned by Ultramar Diamond Shamrock and Elite Services, Inc. appear to be groundwater monitoring wells.

6.2.5.7 Public Water Supply Wells and Intakes Database

One water supply well was identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
1518	T89N R13W S13	NA	NA	City of Waterloo	NA

6.2.5.8 Water Use Permit Facilities Database

This database lists those facilities with permits to withdraw > 25,000 gallons per day of groundwater. Four water use permit facilities were identified on this database as being within one mile of the subject site.

Well No.	Location	Well Depth	Construction/Permit Date	Owner/Permittee	Other Information
1518	T89N R13W S13	NA	NA	City of Waterloo Water Works	Source-well, 15 wells authorized; use-municipal
2878	T89N R13W S14	NA	NA	Allen Memorial Hospital	Source-well, 2 wells authorized; use-air conditioning
4982	T89N R13W S13	NA	NA	Chamberlain Mfg. Co.	Source-well, 3 wells authorized; use-manufacturing
6955	T89N R13W S13	NA	NA	Red Carpet Golf	Source-well, 2 wells authorized; use-golf course irrigation

6.2.5.9 GSB Mines Database

One mine was identified on this database as being within one mile of the subject site.

Site	Type	Status	Company	Product	Location
Burton Avenue Quarry	Surface	Closed	Martin Marietta Materials, Inc.	Limestone	T89N R13W S14 N2 S2 NW4 & NW4 NW4

6.3 Unmapped Sites

EDR found two orphan sites, which were not locatable, based on poor or inadequate address information. Howard R. Green Company was able to locate all these sites during the field reconnaissance and/or with further research. Neither of the sites was within the designated radial distances recommended for investigation under ASTM E 1527-00. These sites are listed in the EDR Report provided in Appendix C.

6.4 Environmental Protection Agency Region 7

Howard R. Green Company reviewed the RCRA Facility Assessment Report for Chamberlain Manufacturing Corporation prepared for EPA Region 7, Office of Waste Program Enforcement by PRC Environmental Management, Inc. and dated February 6, 1996 (EPA, 1996). The purpose of the report was to:

- Evaluate existing information and collect additional information on releases of hazardous waste or hazardous constituents.
- Identify and evaluate solid waste management units (SWMUs) and other AOCs for potential releases of hazardous waste or hazardous constituents.
- Determine the need for further actions and interim measures.
- Screen from further investigation those SWMUs or AOCs that do not pose a threat to human health or the environment.

The assessment involved a review of EPA and IDNR files associated with the Chamberlain facility. A visual site inspection was then conducted on December 11 and 12, 1990. The summary of the report recommendations is tabulated below. The HRG AOC reference numbers have been added to correspond with Figures 3a through 3f, Potential REC Map.

SWMU/AOC	HRG AOCs	RCRA Facility Report Recommendations
SWMU 1 Former Container Storage Area	1-6	Test soil in the general-purpose outdoor storage area, of which the Former Container Storage was a part, for VOCs, SVOCs, metals and cyanide. Drums of produced material store in this area may have leaked.
SWMU 11 Waste Oil UST	1-22	Test soil in the area around the former location of the Water Oil UST for VOCs, SVOCs, and metals. Waste solvents were commonly mixed with waste oil, and this practice could have been done at this facility.
SWMUs 16.1 through 16.3 Outfalls 001 through 003	1-18 5-9 5-11	Test sediment near the outfalls and long Virden Creed for VOCs, SVOCs, metals and cyanides. Undetected metal finishing wastewaters and spent solvent may have been discharged to Virden in the past.
SWMU 20 Scrap Metal Storage Area	5-12	Test soil under the scrap metal area for VOCs, SVOCs, and metals. This area has existed for about 40 years. Lubricants, cleaning solutions, and paint may have migrated to the surrounding soils over the years.
AOC 3.1 through 3.37 Sumps 1 through 37	6-11 6-26	The integrity of these sumps should be determined. Sumps with cracks or sludge in the bottom should be investigated for VOCs, SVOCs, metals, and cyanide.
AOC 4.1 through 4.6 Underground Storage	1-22 1-28	Test soil around these USTs for VOCs and SVOCs to determine whether they leaked.

SWMU/AOC	HRG AOCs	RCRA Facility Report Recommendations
Tanks 1 through 6	4-14 4-24	
AOC 5 Areas Identified in Aerial Photographs from 1937 to 1992	1-15 1-29 3-15	Test soil in these areas for presence of VOCs, SVOCs, metals, and cyanide. The facility's waste management practices are not completely known for this time period.

6.5 Iowa Department of Public Health

Chamberlain Manufacturing was operating under Iowa Radioactive Material License No. 0210-1-07-SM1. The date the license was granted is unknown. During the closing of the manufacturing facility, Chamberlain worked with the IDPH to have the license properly terminated. On May 9, 1995 George F. Johns, Jr. of IDPH performed a radiation survey at the Chamber site (IDPH, 1995). The areas surveyed included the windshield assembly and paint room, locker room, production area, receiving area, and DU Assembly Room. The areas were surveyed with a Ludlum 14C probe within six inches of the floor. All levels ranged between 3 and 5 μ R per hour which was the same as the background level established in the parking lot at Chamberlain. On June 26, 1995, Chamberlain received Amendment 02 to its Iowa License No. 0210-1-07-SM1 which terminates its license.

6.6 Local Agency Inquiries

Record reviews of pertinent information were conducted at Black Hawk County and City of Waterloo offices. A summary of this information is provided in Sections 6.4.1 through 6.4.4.

6.6.1 Black Hawk County Health Department

Brett Meyers of Black Hawk County Health Department was contacted on March 8, 2004 (Meyers, 2004). Mr. Meyers indicated that the Health Department does not have any records on file for the Chamberlain site located at 550 Esther Street, Waterloo. Meyers further explained that the finding of no records indicates that no investigation took place on that site. Typical reports that would be in the Health Department files would be complaints from citizens or non-compliance reports. Mr. Meyers indicated that the file did report there was one well on the Chamberlain site and he wasn't sure if it had been properly closed, if at all.

6.6.2 City of Waterloo Water Pollution Control Division

Roseanne Corey of the City of Waterloo Water Pollution Control Division was contacted on March 11, 2004 (Corey, 2004). Ms. Corey spoke to the wastewater discharge permit that was issued by the City of Waterloo. Due to the fact that the plant had been non-operational for so long, the permit was in a document repository and would take some time to recover. She indicated that Chamberlain Manufacturing was considered a categorical producer. Chamberlain was required to weekly test for metals as was regulated by EPA and every six months they were required to test for silver, cyanide, and total toxic organics (TTO). The City of Waterloo also required Chamberlain to test for solids, biological oxygen demand (BOD) and pH. If the plant was over their

production for solids the City issued them a surcharge. Chamberlain would test their output and provide the results to the City Waste Water Plant. Two times a year the City would test the output of the plant. Ms. Corey didn't recall any problems with the plant related to compliance.

6.6.3 Fire Department

Lt. Jeff Freshwater of the Waterloo Fire Department was contacted on April 1, 2004 (Freshwater, 2004). He indicated that there been no major fires at the Chamberlain site during his time with the Waterloo Fire Department beginning in the mid 80s. The firehouse recently transitioned into a new computerized call logging system. There have not been any calls to the former Chamberlain site since this new computerized system was installed.

Dave Boesen of the Waterloo Fire Department was contacted on April 6, 2004 (Boesen, 2004). The Fire Department has no computer records indicating any fire department activity at the Chamberlain site. Any incidents prior to its records being computerized would be stored in the Department's vault and consist of one typed sheet indicating the call and equipment used. There would not be a record of hazardous materials incidents dating that far back.

According to Gary Wilcox, former Chamberlain Manager of Safety and Environmental Engineering, a fire occurred in Building 12 in the mid 80s (Wilcox, 2004). There was no structural damage. The fire occurred at a workstation of three people during a process called "rubber picking" which involved cleaning a rubber seal with acetone in an open container, much like a butter dish. The fumes from the acetone ignited and caused the fire. There was only smoke damage. Gary Wilcox said he could remember some fires over the years, but he said that none of the fires ever caused structural damage.

6.6.4 Black Hawk County Solid Waste Commission

Gary Wilcox of the Black Hawk County Solid Waste Commission was contacted on February 17, 2004 (Wilcox, 2004). Mr. Wilcox was employed by Chamberlain Manufacturing Corporation, most recently as the Manager of Safety and Environmental Engineering, for a total of 22 years, terminating his employment in 1991. The Chamberlain Manufacturing Facility ceased operation in 1993. Mr. Wilcox currently is the head of the Solid Waste Commission in Black Hawk County and manages the Landfill.

Mr. Wilcox indicated he had copies of various environmental reports from the operation of Chamberlain, including waste treatment practices and the Solvent Management Plan. The Spill Prevention Countermeasure Contingency Plan (SPCC) and Solvent Management Plan are in Appendix F.

Wilcox noted that in addition to munitions assembly, there were also metal finishing and painting operations that took place in the facility during its function. Mr. Wilcox pointed out various areas of concern on a map of the layout of the Chamberlain property. In his opinion, the major areas of concern were:

- The northeast area to the rear of the buildings; potential for buried cyanide.
- The northeast area to the rear of buildings; potential for PCB cutting oil (dioxin)
- The area along the dike to the east of the buildings; probably foundry fill area.
- Former Mildred Street under front portion of buildings; sewer replacement discovered missing parts of sewer tile, unknown for how long.
- The area around building 16 near Virden Creek; reportable sulfuric acid spill into creek.
- The floor drain in building 13 (near the middle of site); uncontrolled intake with an unknown outlet.

According to Wilcox, there were multiple USTs under building #9 that were not registered, but were steam cleaned, filled with sand, and sealed while the plant was in operation.

Wilcox also added he had no concern for explosive materials nor depleted uranium at this site. The depleted uranium at the factory was handled only as rods and was not altered at the plant. The uranium was opened and handled only in building 12. The test firing range was located to the north of Denver, IA and was a separate entity from the manufacturing facility.

Wilcox also stated that the facility was "fairly well" asbestos abated and PCB abated while still in operation. He added that the press pits in the facility were steam cleaned, toxins removed, filled with sand and cemented over by Clean Harbors Inc. also during operation of the facility.

Wilcox noted that there were still two water wells on the site and wasn't sure if they had been closed. The water from those wells was used for cooling and manufacturing purposes.

6.7 Historical Aerial Photographs

Historical aerial photographs from 1941, 1952, 1957, 1964, 1970, 1979, 1994, and 2002 were reviewed and consistently show the Chamberlain Manufacturing site with residential properties on the west and undeveloped and/or parkland on the north, east and south sides. In the descriptions below, the building numbers referenced are according to the most recent facility numbering system.

In the 1941 photograph, Building 3 and what appears to be Buildings 8 and 9 of the Chamberlain facility are evident. A building that is no longer present is located to the east of Building 9. A parking lot appears to be where Building 4 currently is located. E. 4th Street is lined on both sides with residential lots. A few of the lots have dwellings on them. No ASTs or other identifiable structures are discernable on the photo. The property north, east and south of the site appears to be agricultural land with wooded borders.

In the 1952 photograph, Building 3 has been expanded to the north and south. Buildings 1 and 2 have been added to the west of Building 3. Buildings 4, 5, and 6 have been added to the south of Buildings 3 and 8. Building 10 has been added to the north of Building 9. Building 11 has been added between Buildings 3 and 9. The structure

located east of 9 in the 1941 photograph has been replaced with Building 13. Buildings 12 and 17 are located south of Building 13. Building 14 has been added to the north of Building 13. Building 20 has been added to the east of Building 13. Two unidentifiable structures are located to the east of Building 20. In this photo, one parking lot is on the west side of Building 3 on a former residential lot that has been paved. A larger parking area is located north of Building 3. A ball diamond has been constructed to the east of Building 14. No ASTs or other structures are identifiable on the exterior of the facility. The area to the west remains residential, while the areas to the north, east, and south of the facility remain agricultural with wooded borders.

The 1957 photograph is very similar to the 1952 except that Building 14 has been expanded to the north. The two nondescript structures are still evident. Plant roads are more clearly defined.

In the 1964 photograph, Building 15 has been added to the east of Building 20. The ball diamond and the two unidentifiable structures are gone. The parking lot now consists of four previous residential lots along E. 4th Street. The adjacent property to the west remains residential and the property to the north and east is now a golf course. The property to the south appears to be parkland.

In the 1970 photograph, Building 7 has been added to the east of Building 6. Building 18 has been added to the north of Building 15. Building 16 has been constructed to the east of Building 15. What appears to be the AST for bitumen is located off the northeast corner of Building 14. Adjacent properties remain as in the 1964 photograph.

In the 1979 photograph, Building 19 has been added to the north of Building 16. The bitumen AST is gone. Present are the two waste oil ASTs to the north of Building 18 and the cooling tower and pump house along the northeast property line. Also added are the two propane tanks in the southeast corner of the property. Adjacent properties remain residential and golf course/parkland.

In the 1994 photograph, Building 21 has been added to the north of Building 14 and Building 22 has been added to the north of Building 10. Many of the buildings appear to have had the roofs replaced. The waste oil ASTs, propane tanks, cooling tower and pump house are still visible. Parking now consists of the entire east side of E. 4th Street from the railroad tracks on the south to Louise Street on the north. Adjoining properties remain residential to the west, and golf course and park to the north, east, and south.

The 2002 photograph resembles the 1994 photograph.

In an EPA RCRA Facility Assessment Report (EPA, 1996), review of aerial photographs revealed several areas of mottled or disturbed soil were noted that present environmental concerns. These are indicated on the AOC location maps as 1-15, 1-29, and 3-15.

6.8 Historical Fire Map

The Sanborn Fire Insurance Map of the Chamberlain site was reviewed for 1950. At the time this map was produced, Chamberlain manufactured washing machine parts. According to the map, the facility had steam heat and electric power. The following table

summarizes the information found on the 1950 Sanborn Fire Insurance Map obtained from EDR.

Building Number	1950 Use	Other Comments
1	Warehouse w/ offices on south end	
2	Warehouse	
3	Factory building w/offices on south end	Concrete floor, steel beam and columns on south end
4, 5, 6	Warehouse	Building 6 has steel columns and trusses
7	Machine shop	
8	Stamping	
9	Electroplating	
10	Shipping and roll department	Steel beams and trusses
12	Machine shop and warehouse	Concrete floor
13, 14	Assembly	Trench drains the length of concrete floor, wood frame structure

6.9 Library

The Waterloo Public Library has City Directories from 1873 to 2000. Until 1954, the subject site was referenced as 100 Mildred Street and occupied by Chamberlain Corporation. From 1955 to 1993, the subject site was referenced as the intersection of East 4th Street with Esther Street. The subject site was referenced as 550 Esther Street from 1993 to 1994 and occupied by Chamberlain Manufacturing Corporation. In 1995, the 550 Esther Street referenced vacancy. From 1995 to present, there was no listing for the subject site.

6.10 Black Hawk County Recorder of Deeds

The property deed for 550 Esther Street in the City of Waterloo is recorded at the Black Hawk County Office as CLD 652436. The deed, dated March 13, 1996, lists the grantee as Atlas Warehouse L.C., an Iowa limited liability company and the grantor as Chamberlain Manufacturing Corporation, an Iowa corporation.

7.0 FINDINGS AND CONCLUSIONS

The following two sections will discuss the results of this Phase I ESA, which was conducted in accordance with ASTM Standard E-1527-00. The conclusion and recommendations presented in the following sections are based on the site conditions on the date of the inspection and the available data at the time of the file review.

7.1 Summary of Findings

The subject site is located within the SW ¼ of Section 13 Township 89 North Range 13 West in Black Hawk County, Iowa. Multiple industrial lots comprise the subject site and total 22.8 acres. Currently, the site is unoccupied and contains multiple single-story and two-story industrial buildings and warehouses constructed between 1919 and the early 1990s. Previous industrial businesses (EPA, 1996) are tabulated below:

Owner	Date	Products Manufactured
Floyd Chamberlain Waterloo, IA As of 1929, Chamberlain Corp.	1919-1934	Metal washer wringers
American Wringers Co. Woonsocket, RI	1934-1953	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Waterloo Register Waterloo, IA (Property east of creek)	1938	Unknown
Ambrook Industries Location unknown	1953	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Chamberlain Manufacturing Corp. Location unknown	1953-1978	Metal washer wringers, projectile metal parts, aluminum awnings, and refrigerator shelves
Duchossois Industries, Inc. Elmhurst, IL	1978-1996	Projectile metal parts

According to the current owner, Ron Vose, the site was purchased in 1996 by Atlas Warehouse, LLC to use for storage for parts for John Deere. John Deere later moved its warehousing contract out of state (Vose, 2004).

The visual inspection of the property was conducted on February 9 and 11, 2004, with Gary Wilcox of the Black Hawk County Solid Waste Commission. The site itself is an REC with numerous AOCs resulting from previous uses and materials storage.

The results of the database searches and historical research identified three properties with RECs in the ASTM search distances from the subject site. None of these three sites have the potential to impact the site because of their location downgradient, or across Virden Creek from the subject site.

7.2 Conclusions

The results of the database searches and historical research located three neighboring properties with RECs in the ASTM search distances from the subject site. Of the three RECs, none have the potential to impact the subject site based on proximity, topography, and nature of contaminant release.

The subject site itself, however, is an REC with numerous AOCs due to the historical uses and material storage at the site. The processes used, material stored, and waste generated during the manufacture of washer wringers, aluminum awnings, munitions and ordnance present the potential for environmental contamination.

8.0 RECOMMENDATIONS

Based on the records review, interviews, on-site inspection, and historic information available at the time of this Phase I ESA, Howard R. Green Company recommends the following actions:

- 1) Retain a licensed radiation consultant to perform a radiation survey on areas where radioactive materials were stored or handled.
- 2) Perform a survey with GPR to identify the location of the buried drums.
- 3) Perform an asbestos survey of building materials.
- 4) Perform an inventory, including sampling, of on-site drums.
- 5) Collect samples in AOCs at the subject site per the following table:

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3a	1-1	Aluminum machining	14	SVOCs, VOCs, metals, PCBs				
3a	1-2	Secondary containment	14	SVOCs, VOCs, metals, PCBs				
3a	1-3	Parts washing	18	VOCs, metals,				
3a	1-4	Steel cutting	18	SVOCs, VOCs, metals, PCBs				
3a	1-5	Stored/drained oily cuttings	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-6	Container storage area	Ext	SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide			
3a	1-7	90-day hazardous waste storage	19	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-8	DU storage, shipping, receiving	21	VOCs, uranium isotopes, explosives				
3a	1-9	Aluminum machining	21	SVOCs, VOCs, metals, PCBs				
3a	1-10	Solvent storage tank	21	VOCs	VOCs			
3a	1-11	Heating oil/waste oil ASTs	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-12	Pump island	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-13	Bitumen tank	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-14	Cooling tower/pump house	Ext	SVOCs	SVOCs			
3a	1-15	Disturbed ground/possible buried drums	Ext	SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide			

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3a	1-16	Foundry sand fill	Ext	SVOCs, metals, PCBs				
3a	1-17	Well #3	Ext		SVOCs, VOCs, metals			
3a	1-18	North Outfall (#001)	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3a	1-19	Hazardous waste storage	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-20	Parts washing	18	VOCS, metals				
3a	1-21	Parts washing	14	VOCS, metals				
3a	1-22	10,000-gal waste oil UST	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-23	Degreasing	21	SVOCs, VOCs, metals, PCBs				
3a	1-24	Degreasing	21	SVOCs, VOCs, metals, PCBs				
3a	1-25	Paint drying area	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-26	Paint booth	21	SVOCs, VOCs, metals				
3a	1-27	Paint booth	21	SVOCs, VOCs, metals				
3a	1-28	500-gal gasoline UST	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-29	Disturbed ground	Ext	SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide			
3b	2-1	Phosphate conversion	10	VOCs				
3b	2-2	Paint booth	10	SVOCs, VOCs, metals				
3b	2-3	Tile/ carpet/ mastic/ ceiling tile	10					asbestos
3b	2-4	Hazardous materials storage	10	SVOCs, VOCs, metals, PCBs				
3b	2-5	Acid rinsing	10	metals, cyanide				
3b	2-6	Industrial x-ray	10	metals, uranium isotopes				uranium isotopes
3b	2-7	R&D warhead assembly	22	VOCs, uranium isotopes, explosives				uranium isotopes
3b	2-8	Stored/ drained oily cuttings	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3b	2-9	PCBS storage	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3b	2-10	Paint booth	10	SVOCs, VOCs, metals				
3c	3-1	Solvent vault	3	VOCs				
3c	3-2	Paint storage	3	SVOCs, VOCs, metals				

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Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3c	3-3	Chlorinated solvent vapor degreaser	3	SVOCs, VOCs, metals				
3c	3-4	R&D assembly	3	VOCs, uranium isotopes, explosives				uranium isotopes
3c	3-5	Photo developing	3	VOCs, metals				
3c	3-6	Tile/ carpet/ mastic/ ceiling tile	3					asbestos
3c	3-7	R&D area	3	VOCs, uranium isotopes, explosives				
3c	3-8	Parts washing	3	VOCs, metals				
3c	3-9	Alkaline paint stripping	3	VOCs				
3c	3-10	Patriot missile assembly	3	VOCs, metals, uranium isotopes, explosives				
3c	3-11	Grease trap	1	SVOCs, VOCs, metals				
3c	3-12	Gage lab/ vent hood/ former DU area	3	VOCs, metals, uranium isotopes, explosives				asbestos, uranium isotopes
3c	3-13	Cement wall board	3					asbestos
3c	3-14	Metallurgy lab/ vent hood/ countertop	1	SVOCs, VOCs, metals				asbestos
3c	3-15	Disturbed ground	Ext	SVOCs, VOCs, metals, cyanide				
3d	4-1	Floor drains	4			SVOCs, VOCs, metals, PCBs		
3d	4-2	Vent hood	4					asbestos
3d	4-3	Former equipment location	4	SVOCs, VOCs, metals, PCBs				
3d	4-4	Welding	4	VOCs, metals				
3d	4-5	Transformers	4	SVOCs, PCBs				
3d	4-6	French drain	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3d	4-7	Floor drains (concreted in)	6	SVOCs, VOCs, metals, PCBs				
3d	4-8	Not used						
3d	4-9	Floor drains (filled w/ sediment)	8			SVOCs, VOCs, metals, PCBs		
3d	4-10	Laboratory	8	SVOCs, VOCs, metals				asbestos
3d	4-11	Floor tile/ mastic/ ceiling tile	8					asbestos
3d	4-12	Wastewater treatment	11	VOCs, metals				
3d	4-13	Hard coat anodizing	11	metals				
3d	4-14	Buried tank cars (4)	11	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3d	4-15	Sewer line break/ repair	11	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3d	4-16	Waste oil piping manifold	11	SVOCs, VOCs, metals, PCBs				
3d	4-17	Waste oil storage/recycling	11	SVOCs, VOCs, metals, PCBs				
3d	4-18	Parts washing	9	VOCs, metals				
3d	4-19	Parts washing	9	VOCs, metals				
3d	4-20	Parts washing	4	VOCs, metals				
3d	4-21	Parts washing	5	VOCs, metals				
3d	4-22	Sludge drying oven	8	SVOCs, metals				
3d	4-23	Sanborn Unit	9	SVOCs, VOCs, metals, PCBs				
3d	4-24	10,000-gal UST (filled in place)	9	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3d	4-25	Well #1	8		SVOCs, VOCs, metals			
3d	4-26	Forklift repair	5	SVOCs, VOCs, metals				
3d	4-27	Chrome plating	8	metals				
3d	4-28	Machining	8	SVOCs, VOCs, metals, PCBs				
3d	4-29	Paint/ solvent/ chemical storage	6	SVOCs, VOCs, metals				
3e	5-1	DU shell assembly	12	VOCs, uranium isotopes, explosives				uranium isotopes
3e	5-2	Open floor drains	12			VOCs, uranium isotopes, explosives		uranium isotopes
3e	5-3	Transite siding	12					asbestos
3e	5-4	Sulfuric acid release	Ext	metals	metals			
3e	5-5	Substation	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-6	Rail spur	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-7	Hydraulic oil tanks	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-8	Secondary containment—sulfuric acid	Ext	metals	metals			
3e	5-9	Outfall 002	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3e	5-10	Solvent recovery	12	VOCs, metals				
3e	5-11	Outfall 002	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3e	5-12	Metal scrap storage	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3e	5-13	Bitumen tank	Ext	SVOCs, VOCs	SVOCs, VOCs			

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Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3f	6-1	Heat treating furnaces	13					asbestos
3f	6-2	Former press pits	13	SVOCs, VOCs, metals, PCBs				
3f	6-3	DU painting room	13	SVOCs, VOCs, uranium isotopes, explosives				uranium isotopes
3f	6-4	Metal finishing lines	13	SVOCs, VOCs, metals, PCBs				
3f	6-5	DU storage	13	VOCs, uranium isotopes, explosives				uranium isotopes
3f	6-6	Sludge drying oven	13	SVOCs, metals				
3f	6-7	Leaking hydraulic oil drums	15	SVOCs, metals, PCBs				
3f	6-8	Filled trench drains	15	SVOCs, VOCs, metals, PCBs				
3f	6-9	Furnace w/ potential asbestos	15					asbestos
3f	6-10	Floor tile/ mastic	15					asbestos
3f	6-11	Sump	15			SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide	
3f	6-12	Oil storage/ recycling	15	SVOCs, VOCs, metals, PCBs				
3f	6-13	Sludge drying oven	15	SVOCs, metals				
3f	6-14	Drum storage	20	SVOCs, VOCs, metals, PCBs				
3f	6-15	Equipment cleaning	16	SVOCs, VOCs, metals, PCBs				
3f	6-16	Filled trench drain	17	SVOCs, VOCs, metals, PCBs				
3f	6-17	Paint booth	17	SVOCs, VOCs, metals				
3f	6-18	Hazardous waste staging	15	SVOCs, VOCs, metals, PCBs				
3f	6-19	Parts washing	15	VOCs, metals				
3f	6-20	Parts washing	15	VOCs, metals				
3f	6-21	Zinc electroplating	13	SVOCs, VOCs, metals, PCBs				
3f	6-22	Pit sludge treatment	15	SVOCs, VOCs, metals, PCBs				
3f	6-23	Annealing furnaces	15	SVOCs, VOCs, metals, PCBs				
3f	6-24	Well #2	13		SVOCs, VOCs, metals, PCBs			
3f	6-25	Paint booth	13	SVOCs, VOCs, metals				
3f	6-26	Grated sump	20			SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide	

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9.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

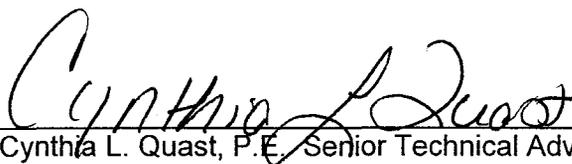
The signatures of the environmental professionals responsible for this report:



Michael G. Fisher, R.E.M., Project Manager



Ronn P. Beebe, P.G., Project Scientist, Technical Review



Cynthia L. Quast, P.E., Senior Technical Advisor, Quality Control and Assurance

10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

10.1 COMPANY QUALIFICATIONS

Howard R. Green Company is a multi-disciplined consulting engineering firm providing services in the civil, environmental, structural, mechanical and electrical engineering disciplines. The firm, founded in 1913, serves Midwest cities, utilities, industries, and various state and federal agencies. The home office is located in Cedar Rapids, Iowa, with branch offices in Des Moines and Iowa City, Iowa; Saint Paul, Minnesota; Moline, Illinois; Rolla and St. Louis, Missouri; and Sioux Falls, South Dakota. The firm currently employs over 250 architects, engineers, planners, scientists, surveyors, technicians, and support staff.

Howard R. Green Company has completed environmental site assessments and property transfer evaluations for a variety of public and private clients in Iowa, Minnesota, Missouri, and South Dakota. The firm is experienced in all phases of environmental services, including site assessments, contaminant release investigations, and remediation programs. Additionally, the firm provides hazardous materials management, permit compliance, solid waste management, storm water management, and underground storage tank system management services.

10.2 QUALIFICATIONS OF INDIVIDUALS PREPARING THIS REPORT

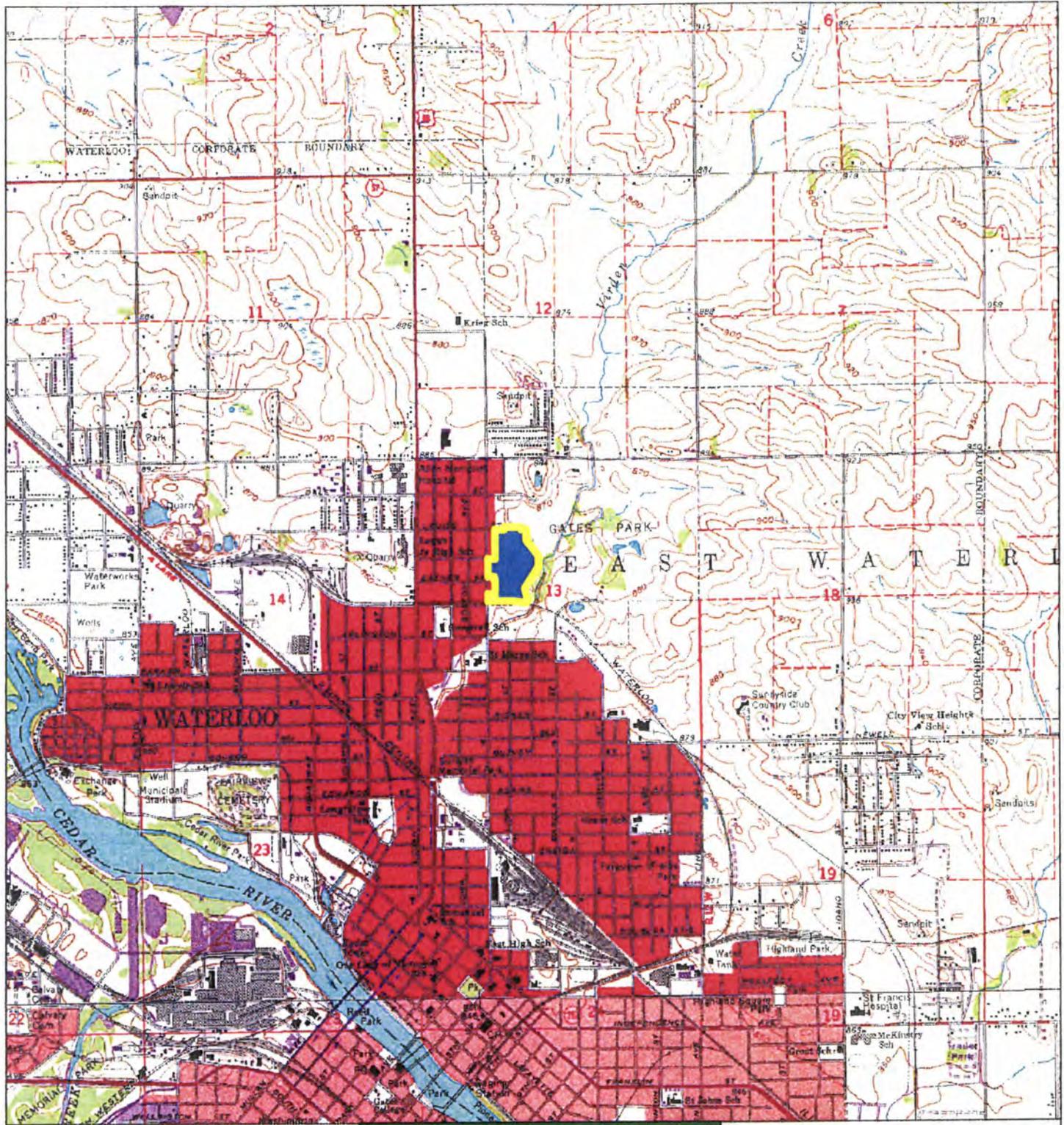
The Howard R. Green Company personnel responsible for conducting this investigation and producing this document are Ronn Beebe and Cynthia Quast. Mr. Beebe is a licensed professional geologist with experience with a wide variety of environmental issues including compliance, emergency response, investigation, remediation, stabilization, management, permitting, and risk based assessments of hazardous waste sites. Ronn is 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) certified. Ms. Quast is a licensed professional engineer and groundwater professional in the State of Iowa who has experience with a wide variety of environmental issues including investigation, remediation, and risk based assessments of hazardous waste sites. Cynthia is 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) certified and has completed the EPA Quality Assurance Training.

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APPENDIX A

FIGURES



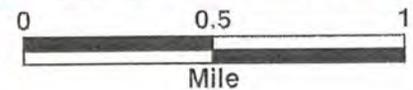
Former Chamberlain
Manufacturing Property

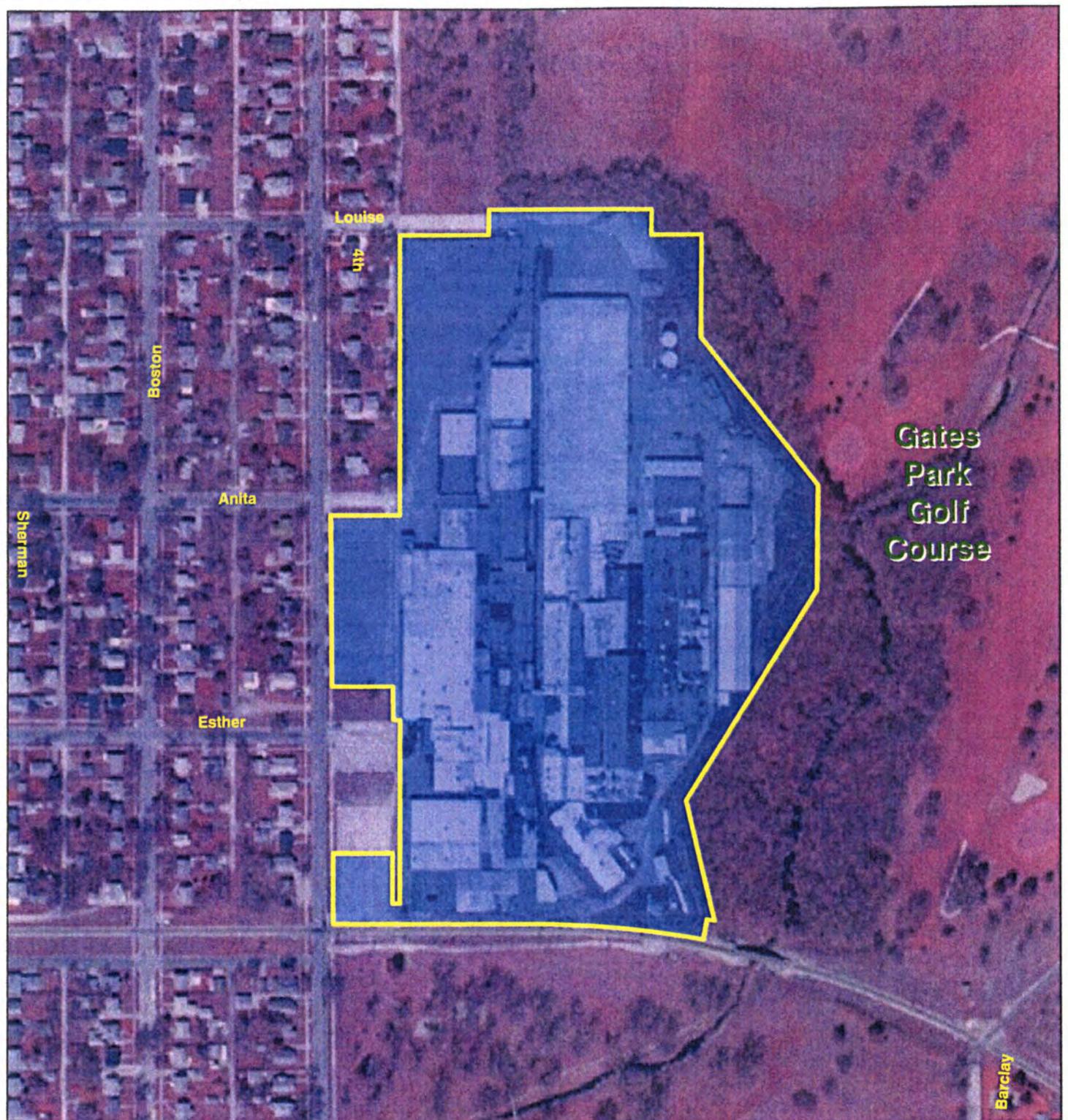
550 Esther Street
Waterloo, Iowa

PHASE I ESA

FIGURE 1

LOCUS MAP





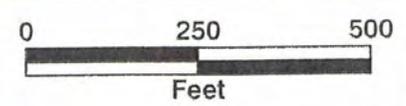
Former Chamberlain
Manufacturing Property

550 Esther Street
Waterloo, Iowa

PHASE I ESA

FIGURE 2

SITE MAP

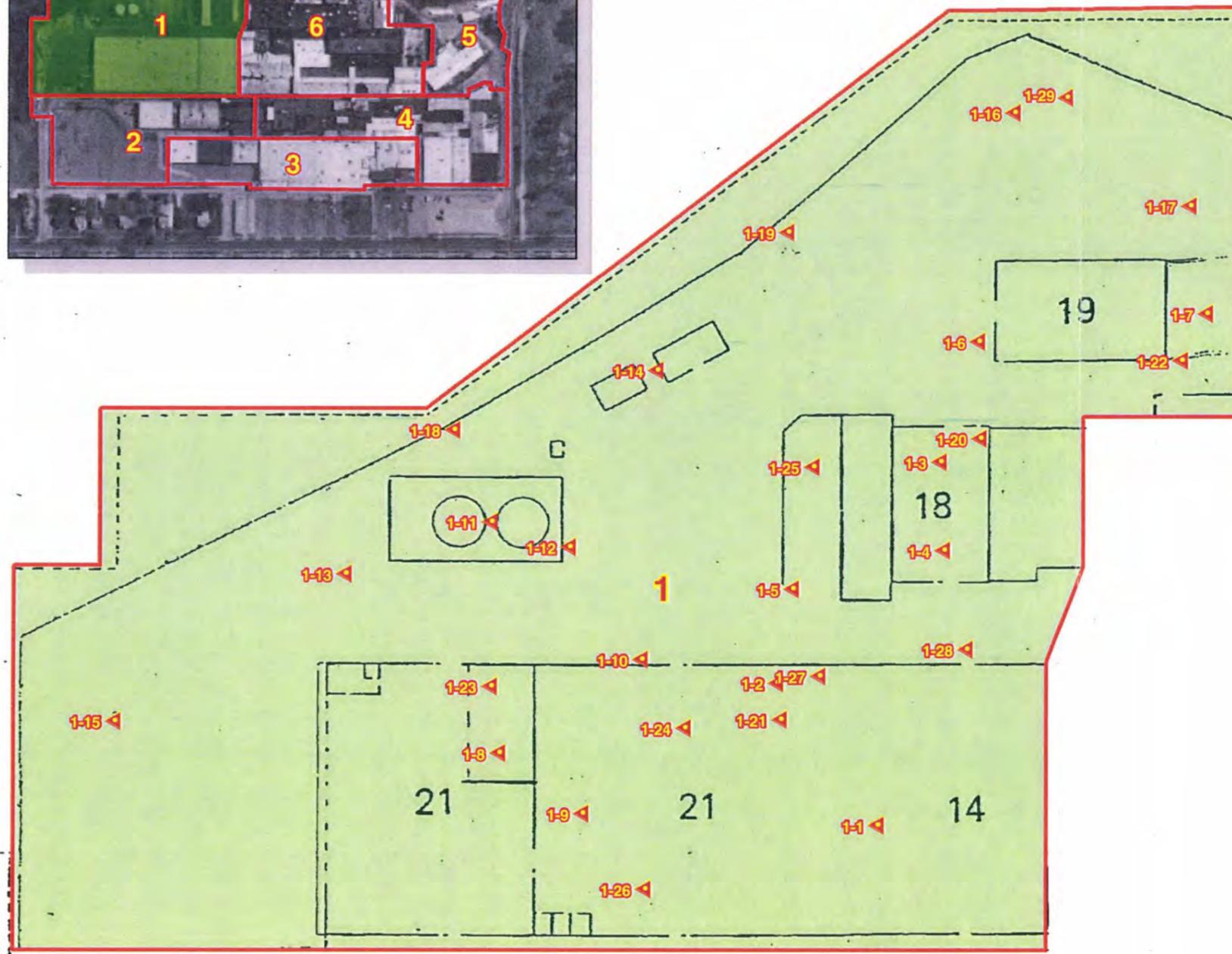


 SITE





GATES PARK

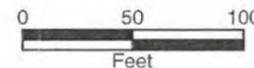


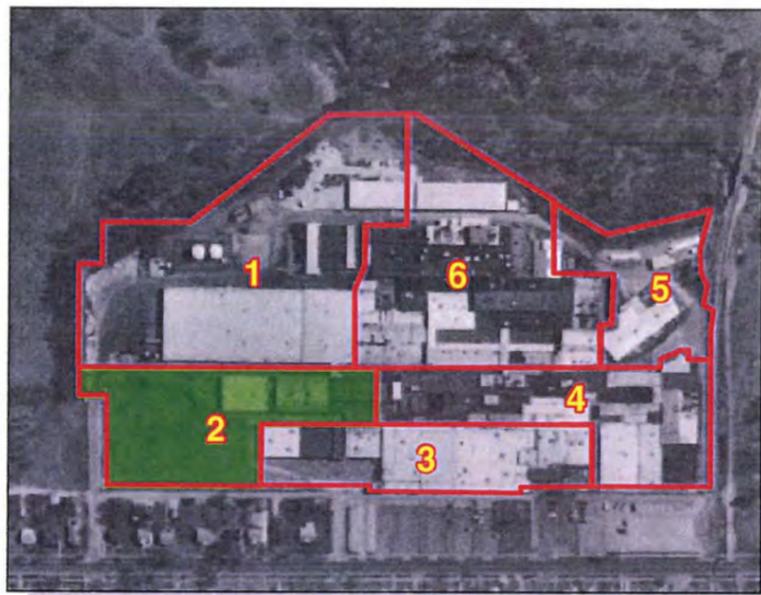
FORMER CHAMBERLAIN MANUFACTURING PROPERTY

FIGURE 3a

Areas of Concern Location Map

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3a	1-1	Aluminum machining	14	SVOCs, VOCs, metals, PCBs				
3a	1-2	Secondary containment	14	SVOCs, VOCs, metals, PCBs				
3a	1-3	Parts washing	18	VOCs, metals				
3a	1-4	Steel cutting	18	SVOCs, VOCs, metals, PCBs				
3a	1-5	Stored/drained oily cuttings	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-6	Container storage area	Ext	SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide			
3a	1-7	90-day hazardous waste storage	19	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-8	DU storage, shipping, receiving	21	VOCs, uranium isotopes, explosives				
3a	1-9	Aluminum machining	21	SVOCs, VOCs, metals, PCBs				
3a	1-10	Solvent storage tank	21	VOCs	VOCs			
3a	1-11	Heating oil/waste oil ASTs	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-12	Pump island	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-13	Bitumen tank	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-14	Cooling tower/pump house	Ext	SVOCs	SVOCs			
3a	1-15	Disturbed ground/possible buried drums	Ext	SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide			
3a	1-16	Foundry sand fill	Ext	SVOCs, metals, PCBs				
3a	1-17	Well #3	Ext		SVOCs, VOCs, metals			
3a	1-18	North Outfall (#001)	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3a	1-19	Hazardous waste storage	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-20	Parts washing	18	VOCs, metals				
3a	1-21	Parts washing	14	VOCs, metals				
3a	1-22	10,000-gal waste oil UST	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3a	1-23	Degreasing	21	SVOCs, VOCs, metals, PCBs				
3a	1-24	Degreasing	21	SVOCs, VOCs, metals, PCBs				
3a	1-25	Paint drying area	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-26	Paint booth	21	SVOCs, VOCs, metals				
3a	1-27	Paint booth	21	SVOCs, VOCs, metals				
3a	1-28	500-gal gasoline UST	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3a	1-29	Disturbed ground	Ext	SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide			

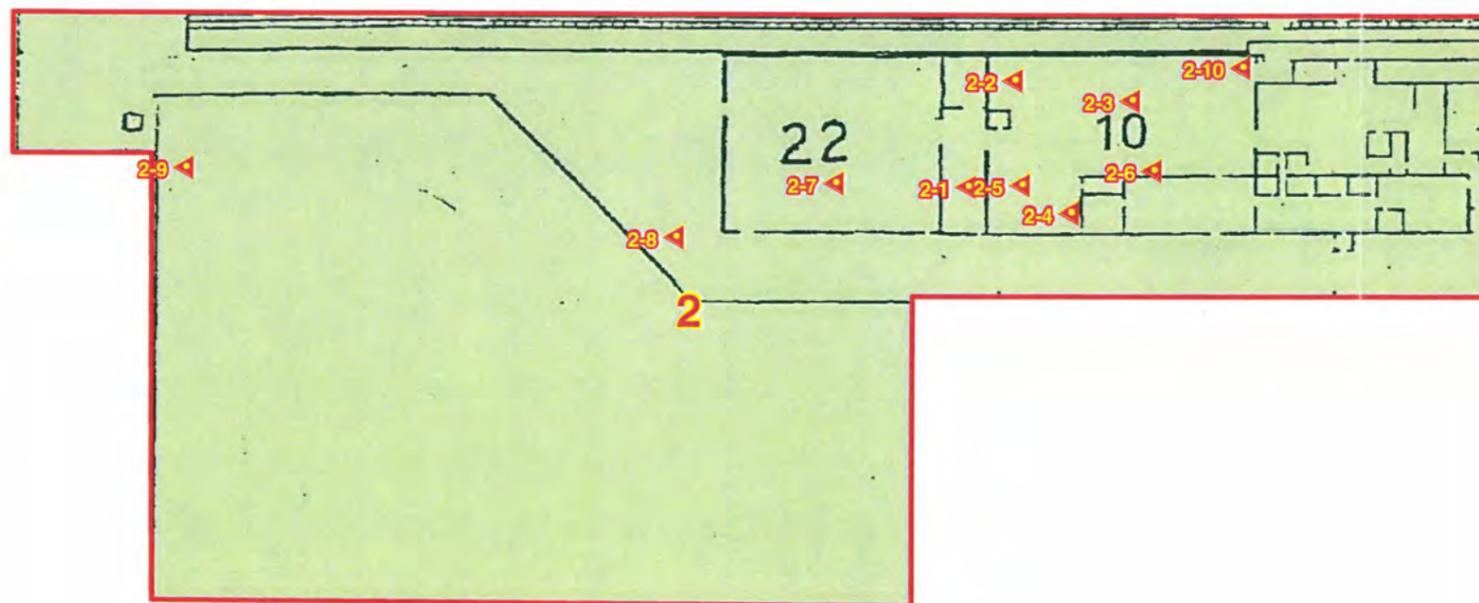




FORMER CHAMBERLAIN MANUFACTURING PROPERTY

FIGURE 3b

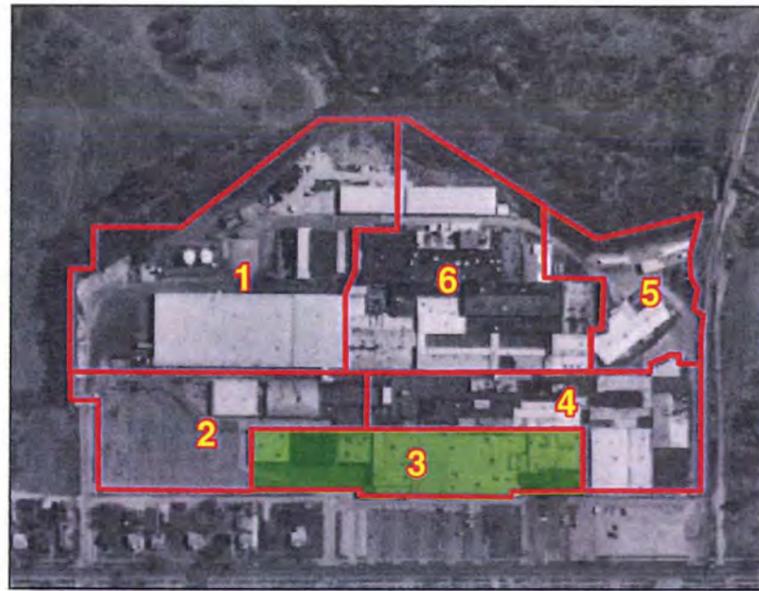
Areas of Concern Location Map



▲ AOCs



Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3b	2-1	Phosphate conversion	10	VOCs				
3b	2-2	Paint booth	10	SVOCs, VOCs, metals				
3b	2-3	Tile/ carpet/ mastic/ ceiling tile	10					asbestos
3b	2-4	Hazardous materials storage	10	SVOCs, VOCs, metals, PCBs				
3b	2-5	Acid rinsing	10	metals, cyanide				
3b	2-6	Industrial x-ray	10	metals, uranium isotopes				uranium isotopes
3b	2-7	R&D warhead assembly	22	VOCs, uranium isotopes, explosives				uranium isotopes
3b	2-8	Stored/ drained oily cuttings	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3b	2-9	PCBS storage	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3b	2-10	Paint booth	10	SVOCs, VOCs, metals				



FORMER CHAMBERLAIN MANUFACTURING PROPERTY

FIGURE 3c

Areas of Concern Location Map

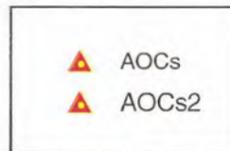
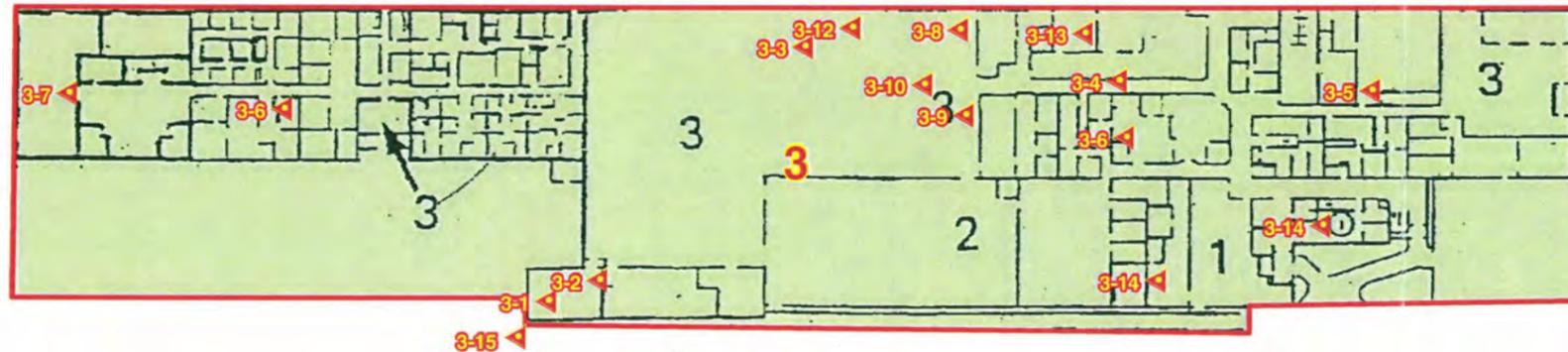
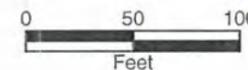
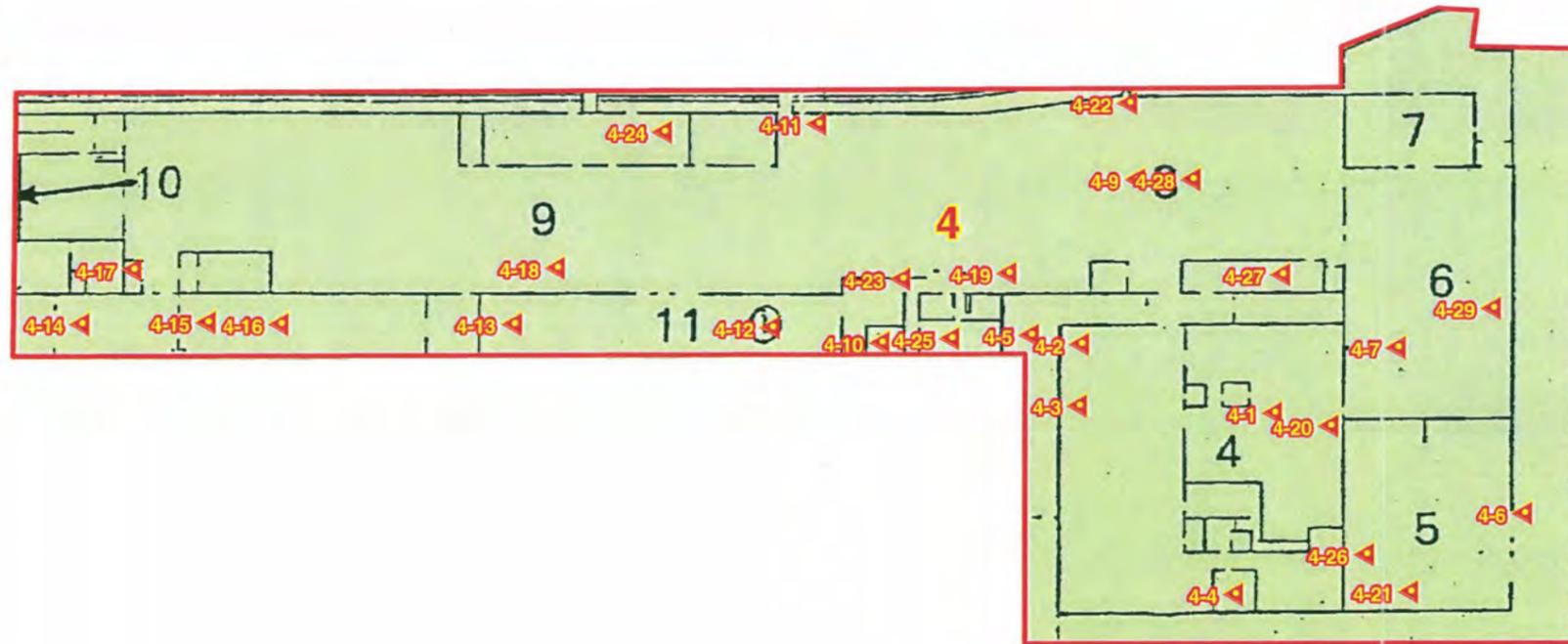
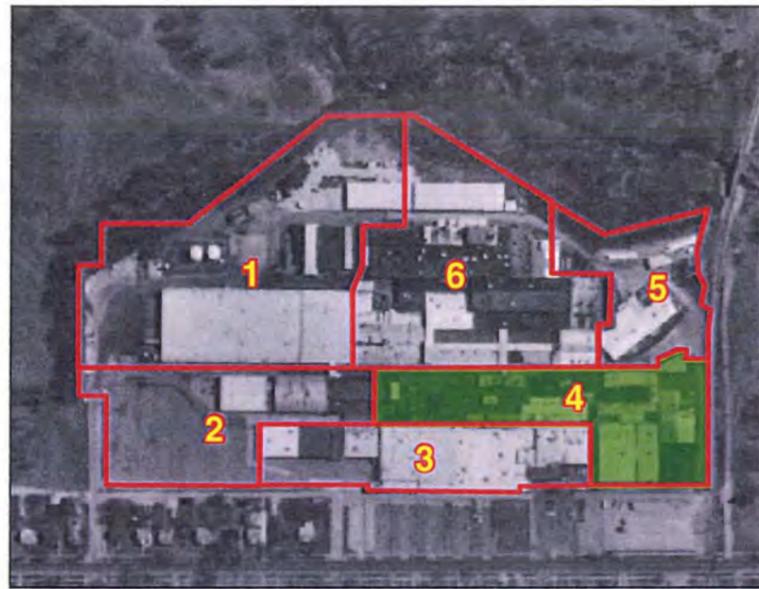


Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3c	3-1	Solvent vault	3	VOCs				
3c	3-2	Paint storage	3	SVOCs, VOCs, metals				
3c	3-3	Chlorinated solvent vapor degreaser	3	SVOCs, VOCs, metals				
3c	3-4	R&D assembly	3	VOCs, uranium isotopes, explosives				uranium isotopes
3c	3-5	Photo developing	3	VOCs, metals				
3c	3-6	Tile/ carpet/ mastic/ ceiling tile	3					asbestos
3c	3-7	R&D area	3	VOCs, uranium isotopes, explosives				
3c	3-8	Parts washing	3	VOCs, metals				
3c	3-9	Alkaline paint stripping	3	VOCs				
3c	3-10	Patriot missile assembly	3	VOCs, metals, uranium isotopes, explosives				
3c	3-11	Grease trap	1	SVOCs, VOCs, metals				
3c	3-12	Gage lab/ vent hood/ former DU area	3	VOCs, metals, uranium isotopes, explosives				asbestos, uranium isotopes
3c	3-13	Cement wall board	3					asbestos
3c	3-14	Metallurgy lab/ vent hood/ countertop	1	SVOCs, VOCs, metals				asbestos
3c	3-15	Disturbed ground	Ext	SVOCs, VOCs, metals, cyanide				

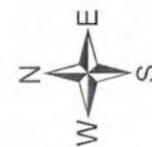
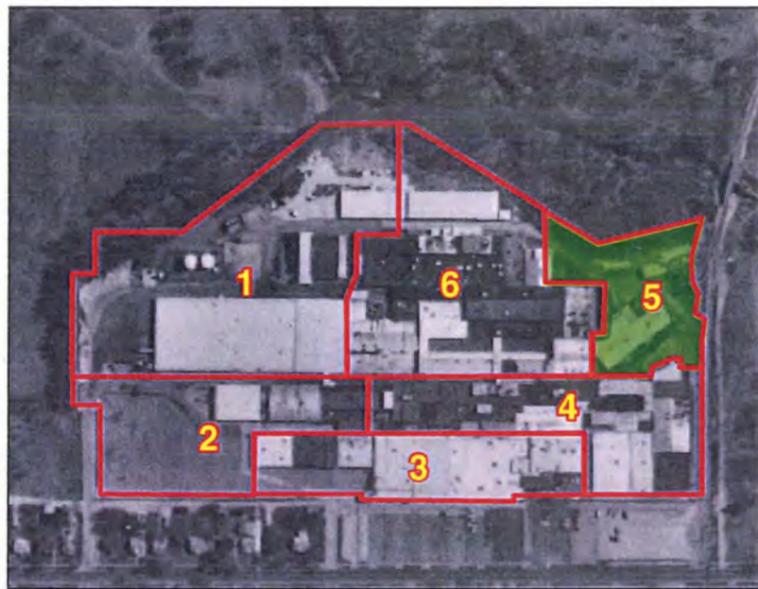


FORMER CHAMBERLAIN MANUFACTURING PROPERTY

FIGURE 3d

Areas of Concern Location Map

Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3d	4-1	Floor drains	4			SVOCs, VOCs, metals, PCBs		
3d	4-2	Vent hood	4					asbestos
3d	4-3	Former equipment location	4	SVOCs, VOCs, metals, PCBs				
3d	4-4	Welding	4	VOCs, metals				
3d	4-5	Transformers	4	SVOCs, PCBs				
3d	4-6	French drain	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3d	4-7	Floor drains (concreted in)	6	SVOCs, VOCs, metals, PCBs				
3d	4-8	Not used						
3d	4-9	Floor drains (filled w/ sediment)	8			SVOCs, VOCs, metals, PCBs		
3d	4-10	Laboratory	8	SVOCs, VOCs, metals				asbestos
3d	4-11	Floor tile/ mastic/ ceiling tile	8					asbestos
3d	4-12	Wastewater treatment	11	VOCs, metals				
3d	4-13	Hard coat anodizing	11	metals				
3d	4-14	Buried tank cars (4)	11	SVOCs, VOCs, metals		SVOCs, VOCs, metals		
3d	4-15	Sewer line break/ repair	11	SVOCs, VOCs, metals, PCBs		SVOCs, VOCs, metals, PCBs		
3d	4-16	Waste oil piping manifold	11	SVOCs, VOCs, metals, PCBs				
3d	4-17	Waste oil storage/ recycling	11	SVOCs, VOCs, metals, PCBs				
3d	4-18	Parts washing	9	VOCs, metals				
3d	4-19	Parts washing	9	VOCs, metals				
3d	4-20	Parts washing	4	VOCs, metals				
3d	4-21	Parts washing	5	VOCs, metals				
3d	4-22	Sludge drying oven	8	SVOCs, metals				
3d	4-23	Sanborn Unit	9	SVOCs, VOCs, metals, PCBs				
3d	4-24	10,000-gal UST (filled in place)	9	SVOCs, VOCs, metals		SVOCs, VOCs, metals		
3d	4-25	Well #1	8			SVOCs, VOCs, metals		
3d	4-26	Forklift repair	5	SVOCs, VOCs, metals				
3d	4-27	Chrome plating	8	metals				
3d	4-28	Machining	8	SVOCs, VOCs, metals, PCBs				
3d	4-29	Paint/ solvent/ chemical storage	6	SVOCs, VOCs, metals				



FORMER CHAMBERLAIN MANUFACTURING PROPERTY

FIGURE 3e

Areas of Concern Location Map



▲ AOCs

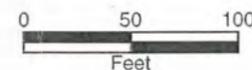


Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3e	5-1	DU shell assembly	12	VOCs, uranium isotopes, explosives				uranium isotopes
3e	5-2	Open floor drains	12			VOCs, uranium isotopes, explosives		uranium isotopes
3e	5-3	Transite siding	12					asbestos
3e	5-4	Sulfuric acid release	Ext	metals	metals			
3e	5-5	Substation	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-6	Rail spur	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-7	Hydraulic oil tanks	Ext	SVOCs, VOCs, metals, PCBs	SVOCs, VOCs, metals, PCBs			
3e	5-8	Secondary containment—sulfuric acid	Ext	metals	metals			
3e	5-9	Outfall 002	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3e	5-10	Solvent recovery	12	VOCs, metals				
3e	5-11	Outfall 002	Ext			SVOCs, VOCs, metals, PCBs, cyanide	SVOCs, VOCs, metals, PCBs, cyanide	
3e	5-12	Metal scrap storage	Ext	SVOCs, VOCs, metals	SVOCs, VOCs, metals			
3e	5-13	Bitumen tank	Ext	SVOCs, VOCs	SVOCs, VOCs			

FORMER CHAMBERLAIN MANUFACTURING PROPERTY

FIGURE 3f

Areas of Concern Location Map

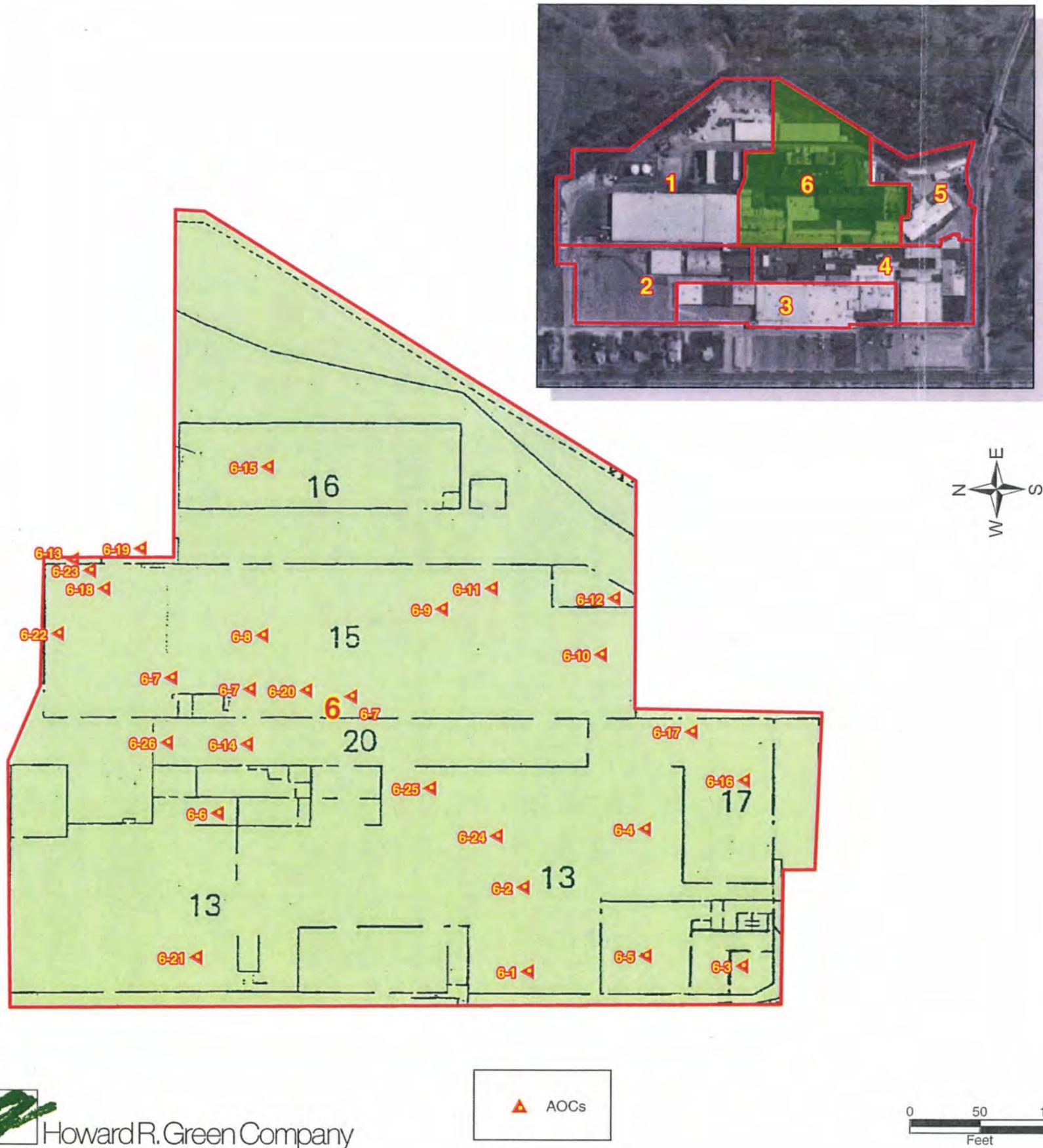


Fig	AOC	Source	Bldg	Soil	Ground Water	Sediment	Surface Water	Bldg Mat'l
3f	6-1	Heat treating furnaces	13					asbestos
3f	6-2	Former press pits	13	SVOCs, VOCs, metals, PCBs				
3f	6-3	DU painting room	13	SVOCs, VOCs, uranium isotopes, explosives				uranium isotopes
3f	6-4	Metal finishing lines	13	SVOCs, VOCs, metals, PCBs				
3f	6-5	DU storage	13	VOCs, uranium isotopes, explosives				uranium isotopes
3f	6-6	Sludge drying oven	13	SVOCs, metals				
3f	6-7	Leaking hydraulic oil drums	15	SVOCs, metals, PCBs				
3f	6-8	Filled trench drains	15	SVOCs, VOCs, metals, PCBs				
3f	6-9	Furnace w/ potential asbestos	15					asbestos
3f	6-10	Floor tile/ mastic	15					asbestos
3f	6-11	Sump	15			SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide	
3f	6-12	Oil storage/ recycling	15	SVOCs, VOCs, metals, PCBs				
3f	6-13	Sludge drying oven	15	SVOCs, metals				
3f	6-14	Drum storage	20	SVOCs, VOCs, metals, PCBs				
3f	6-15	Equipment cleaning	16	SVOCs, VOCs, metals, PCBs				
3f	6-16	Filled trench drain	17	SVOCs, VOCs, metals, PCBs				
3f	6-17	Paint booth	17	SVOCs, VOCs, metals				
3f	6-18	Hazardous waste staging	15	SVOCs, VOCs, metals, PCBs				
3f	6-19	Parts washing	15	VOCs, metals				
3f	6-20	Parts washing	15	VOCs, metals				
3f	6-21	Zinc electroplating	13	SVOCs, VOCs, metals, PCBs				
3f	6-22	Pit sludge treatment	15	SVOCs, VOCs, metals, PCBs				
3f	6-23	Annealing furnaces	15	SVOCs, VOCs, metals, PCBs				
3f	6-24	Well #2	13		SVOCs, VOCs, metals, PCBs			
3f	6-25	Paint booth	13	SVOCs, VOCs, metals				
3f	6-26	Grated sump	20			SVOCs, VOCs, metals, cyanide	SVOCs, VOCs, metals, cyanide	

▲ AOCs

0 50 100
Feet

APPENDIX B
INTERVIEW CONTACTS



Howard R. Green Company

Conversation Record

Date: February 17, 2004 Time: 8:30 AM

Conversed with: Gary Wilcox Of: Black Hawk County Health, Previously Chamberlain Manufacturing, Waterloo

Project Name and Number: Former Chamberlain Manufacturing Phase I - 722930J23

Discussed:

Mr. Wilcox was employed by Chamberlain Manufacturing Corporation, most recently as the Manager of Safety and Environmental Engineering, for a total of 22 years, terminating his employment in 1991. The Chamberlain Manufacturing Facility ceased operation in 1993. Mr. Wilcox currently is the head of the Solid Waste Commission in Black Hawk County and manages the Landfill.

Mr. Wilcox indicated he had copies of various environmental reports from the operation of Chamberlain, including waste treatment practices and solvent management plan. He indicated he is willing to share any information he currently has with HRG once a sub-consultant agreement is in place.

Wilcox noted that in addition to munitions assembly, there were also metal finishing and painting operations that took place in the facility during its function.

Mr. Wilcox pointed out various areas of concern on a map of the layout of the Chamberlain property. In his opinion, the major areas of concern were:

- The northeast area to the rear of the buildings; potential for buried cyanide.
- The northeast area to the rear of buildings; potential for PCB cutting oil (dioxin)
- The area along the dike to the east of the buildings; probably foundry fill area.
- Former Mildred Street under front portion of buildings; sewer replacement discovered missing parts of sewer tile, unknown for how long.
- The area around building 16 near Virden Creek; reportable sulfuric acid spill into Creek.
- The floor drain in building 13 (near the middle of site); uncontrolled intake with an unknown outlet.

According to Wilcox, there were multiple UST under building #9 that were not registered, but were steam cleaned, filled with sand, and sealed while the plant was in operation. Wilcox believes he may have photographs taken during this process.

Wilcox also added he had no concern for explosive materials nor Depleted Uranium (DU) at this site. The Uranium at the factory was handled only as rods and was not altered at the plant. The uranium was opened and handled ONLY in building 12. The test firing range was located to the north of Denver, IA and was a separate entity from the Manufacturing Facility. Wilcox stated that the company spent a great deal of money to remediate that site, which has since been sold to a private citizen for single family residence construction. Wilcox also stated that the facility was "fairly well" asbestos abated and PCB abated while the facility was still in operation. He added that the press pits in the facility were steam cleaned, toxin removed, filled with sand and cemented over by Clean Harbors Inc. also during operation of the facility.

US EPA ARCHIVE DOCUMENT



Howard R. Green Company

Conversation Record

Wilcox noted that there were still two water wells on the site and wasn't sure if they had been closed. The water from those wells was used for cooling and manufacturing purposes.

Wilcox added that there were additional people that would also be able to provide information regarding this site. Dave Whiting, with the EPA office in Iowa City performed some investigative reports and monitoring at the site. Dennis Clark, DC Industries, was the manager of this facility during its operation. Paul Christensen, former maintenance worker for Chamberlain, and was thought to still be in the area.

Wilcox ended with the offer to walk through the buildings with HRG and noted his consulting rate is currently \$85/hour and he prefers to work in 4-hour blocks. Additionally, a group of the former Research and Development workers meet once a month for lunch and would be able to provide additional information.

April 6, 2004 @ 8:15 am follow up questions with Gary Wilcox

The fire in bldg 12 that was discussed at the site visit, happened in the mid 80s, Wilcox couldn't remember the exact year. Gary said that there was no structural damage caused by that fire. The fire occurred at a workstation of 3 people during a process he called "rubber picking", which was the cleaning of a rubber seal with acetone in an open container, much like a butter dish. The fumes from the acetone ignited (he didn't know the cause) and ignited the tub filling the room with a black smoke. Gary said he could remember some fires over the years, but he said that none of the fires ever caused structural damage.

Gary said the solid waste disposal contractors varied over the years. He said towards the end of the plant's operation Denver Construction was picking up the compactor waste. He can also remember Black Hawk Waste Disposal picking up waste over the years. He said it varied and often depended on the material to be picked up.

There was 500-gallon AST in the SW corner of the property used for secondary containment.

According to Gary, there was no UST or AST in the 90-day storage area. The waste oil tank was the tank that was elevated off the ground in one of the buildings along the edge of Mildred Street. The tank was formerly used for coolant storage.

By: Melissa Edsill



Howard R. Green Company

Phone Conversation Record

Date: March 8, 2004

Call: Made: Received: Copies to: _____

Telephone Number: 319.291.2413 Route to: _____

Conversed with: Brett Meyers Of: Black Hawk County Health Department

Project Name and Number: Chamberlain Mfg. Phase I ESA 722930- J23

Discussed:

Mr Meyers indicated that the Health Department does not have any records on file for the Chamberlain site located at 550 Esther Street, Waterloo. Meyers further explained that the finding of no records indicates that no investigation took place on that site. Typical reports that would be in the Health Department files would be complaints from citizens or non-compliance reports.

Meyers indicated that the file did report there was one well on the Chamberlain site and he wasn't sure if it had been properly closed, if at all; Meyers thought this information should be noted in the report. Meyers also suggested contacting EPA, as he knew they had some reporting documents.

Action Required:
No action required.

By: Melissa Edsill



Howard R. Green Company

Phone Conversation Record

Date: March 11, 2004 Time: 10:40 am

Call: Made: Received:

Telephone Number: 319.291.4553

Conversed with: Rosanne Corey Of: Water Pollution Flood Control

Project Name and Number: 722930 J23 - Chamberlain Phase I ESA

Discussed:

Ms. Corey spoke to the wastewater discharge permit that was issued by the City of Waterloo. Due to the fact that the plant had been non-operational for so long, the permit was in a document repository and would take some time to recover. She indicated that Chamberlain Manufacturing was considered a categorical producer. Chamberlain was required to weekly test for metals as was regulated by EPA and every six months they were required to test for silver, cyanide, and TTO. The City of Waterloo also required Chamberlain to test for solids (BOD & PH). If the plant was over their production for solids the City issued them a surcharge. Chamberlain would test their output and provide the results to the City Waste Water Plant. Two times a year the City would come in and test the output of the plant. Ms. Corey didn't recall any problems with the plant not being in compliance. Corey did also mention that if the plant was out of compliance, that information was published in the Waterloo Courier.

Action Required:
No action required.

By: Melissa Edsill



Howard R. Green Company

Conversation Record

Date: April 1, 2004 Time: 3:30 P.M.

Telephone Number: 319-291-4460 Address: 425 East 3rd Street, Waterloo

Conversed with: Lt. Jeff Freshwater Of: Waterloo Fire & Rescue

Project Name and Number: Chamberlain Phase I ESA – 722930J23

Discussed:

Spoke with Lt. Freshwater. He indicated that there has not been any major fires at the Chamberlain site during his time with the Waterloo Fire Department beginning in the mid –1980s. The firehouse has recently transitioned into a new computerized call logging system. There has not been any calls to the former Chamberlain site since this new computerized system was installed. Lt. Freshwater is going to speak with Fire Marshall Boesen to see if he knew anything further about the site. The only other option was to search through volumes of logbooks for a call to the subject site.

April 6, 2004

From: DAVE BOESEN [mailto:ARSON@WATERLOO-IA.ORG]

Sent: Tuesday, April 06, 2004 9:15 AM

Melissa,

I have no computer records indicating any fire department activity. Any incidents prior to our records being computerized would be stored in our vault and consist of one typed sheet indicating the call and equipment used. There would not be a record of hazardous materials incidents dating that far back. We've come a long way since the seventies but I don't think I can be of assistance on this issue. Please keep in mind the nature of what was manufactured in the plant and the inherent dangers that might present in a site study.

Action Required:

By: Melissa Edsill



Howard R. Green Company

Telephone Conversation Record

Date: April 9, 2004 Time: 11:27 a.m.

Conversed with: Ron Vose Of: Atlas Warehouse L.C.

Project Name and Number: Former Chamberlain Manufacturing Phase I - 722930J23

Discussed:

Mr. Vose purchased the subject property in 1996. The property was purchased for to use as storage for parts for John Deere. The building with multiple loading docks was primarily used along with the 70,000 sq. ft. building behind it during this time. John Deere later moved that warehousing contract out of state. Mr. Vose currently uses the site for storage area.

Mr. Vose was told that the 55-gallon barrels that were discovered on the site visit were empty. Vose said the barrels once contained oil for the large presses that were used in Chamberlain's operations. The barrels were present on site when Vose purchased the property.

Mr. Vose was unaware of any additional environmental assessment reports performed on the property with the exception of the report performed by EPA in February 1996.

Mr. Vose is actively pursuing the redevelopment of the site.

No action required.

By: Melissa Edsill

APPENDIX C

STANDARD ENVIRONMENTAL RECORD SOURCES SEARCH

**The EDR Radius Map
with GeoCheck®**

**Chamberlain Manufacturing Corporation
550 Esther Street
Waterloo, IA 50703**

Inquiry Number: 1133124.3s

February 23, 2004



**The Standard in
Environmental Risk
Management Information**

**440 Wheelers Farms Road
Milford, Connecticut 06460**

Nationwide Customer Service

**Telephone: 1-800-352-0050
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

550 ESTHER STREET
WATERLOO, IA 50703

COORDINATES

Latitude (North): 42.521300 - 42° 31' 16.7"
Longitude (West): 92.332400 - 92° 19' 56.6"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 554837.1
UTM Y (Meters): 4707660.0
Elevation: 870 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 42092-E3 WATERLOO NORTH, IA
Source: USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
550 ESTHER STREET 550 ESTHER STREET WATERLOO, IA 50701	UST	N/A
CHAMBERLAIN MFG CORP 550 ESTHER ST WATERLOO, IA 50703	FTTS INSP	N/A
CHAMBERLAIN MFG CORP - FORMER SITE OF 550 ESTHER ST WATERLOO, IA 50703	RCRIS-SQG FINDS RAATS CORRACTS	IAD062776422
CHAMBERLAIN MFG CORP 550 ESTER ST WATERLOO, IA 50703	FTTS INSP	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
RCRIS-TSD.....	Resource Conservation and Recovery Information System
RCRIS-LQG.....	Resource Conservation and Recovery Information System
ERNS.....	Emergency Response Notification System

STATE ASTM STANDARD

SHWS.....	Registry of Hazardous Waste or Hazardous Substance Disposal Sites
SWF/LF.....	Permitted Solid Waste Management Facilities
INDIAN UST.....	Underground Storage Tanks on Indian Land
VCP.....	Land Recycling Program Sites

FEDERAL ASTM SUPPLEMENTAL

CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
Delisted NPL.....	National Priority List Deletions
HMIRS.....	Hazardous Materials Information Reporting System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
NPL Liens.....	Federal Superfund Liens
PADS.....	PCB Activity Database System
US BROWNFIELDS.....	A Listing of Brownfields Sites
DOD.....	Department of Defense Sites
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
SSTS.....	Section 7 Tracking Systems

STATE OR LOCAL ASTM SUPPLEMENTAL

SPILLS.....	Spills Database
AST.....	Aboveground Storage Tank Sites

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas.....	Former Manufactured Gas (Coal Gas) Sites
---------------	--

BROWNFIELDS DATABASES

US BROWNFIELDS.....	A Listing of Brownfields Sites
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EXECUTIVE SUMMARY

VCP..... Land Recycling Program Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 01/12/2004 has revealed that there are 2 RCRIS-SQG sites within approximately 0.375 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>CREATAFORM-FORMER SITE OF PRECISION AUTO BODY CENTER</i>	<i>1430 LOGAN AVE 1405 LOGAN AVE</i>	<i>1/4 - 1/2W 1/4 - 1/2WSW</i>	<i>B5 B7</i>	<i>24 43</i>

STATE ASTM STANDARD

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resources' Underground Storage Tank Data list.

A review of the LUST list, as provided by EDR, and dated 11/06/2003 has revealed that there are 3 LUST sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>CITY OF WATERLOO</i>	<i>1601 N BARCLAY</i>	<i>1/4 - 1/2ESE</i>	<i>12</i>	<i>73</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>EXPRESS MART</i>	<i>1415 LOGAN AVE</i>	<i>1/4 - 1/2WSW</i>	<i>B6</i>	<i>25</i>

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
STOKES MART	1611 E 4TH ST	1/2 - 1 S	13	80

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Natural Resources' Underground Storage Tank Data list.

A review of the UST list, as provided by EDR, and dated 11/06/2003 has revealed that there are 6 UST sites within approximately 0.375 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	604 E DALE STREET	1/4 - 1/2 N	10	68
TOM DOLAN CONCRETE	1316 N BARCLAY	1/4 - 1/2 SE	11	71
CITY OF WATERLOO	1601 N BARCLAY	1/4 - 1/2 ESE	12	73

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
EXPRESS MART	1415 LOGAN AVE	1/4 - 1/2 WSW B6		25
Not reported	1402 LOGAN AVE	1/4 - 1/2 WSW B8		43
MEMBERS MUTUAL OIL CO	1402 LOGAN AVE	1/4 - 1/2 WSW B9		54

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name

Database(s)

FREESE AG SERVICE
YOUNG ICE ARENA PARKING LOT
FREESE AG SERVICE

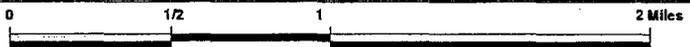
FTTS INSP
LUST
SSTS

OVERVIEW MAP - 1133124.3s - Howard R. Green Company



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites

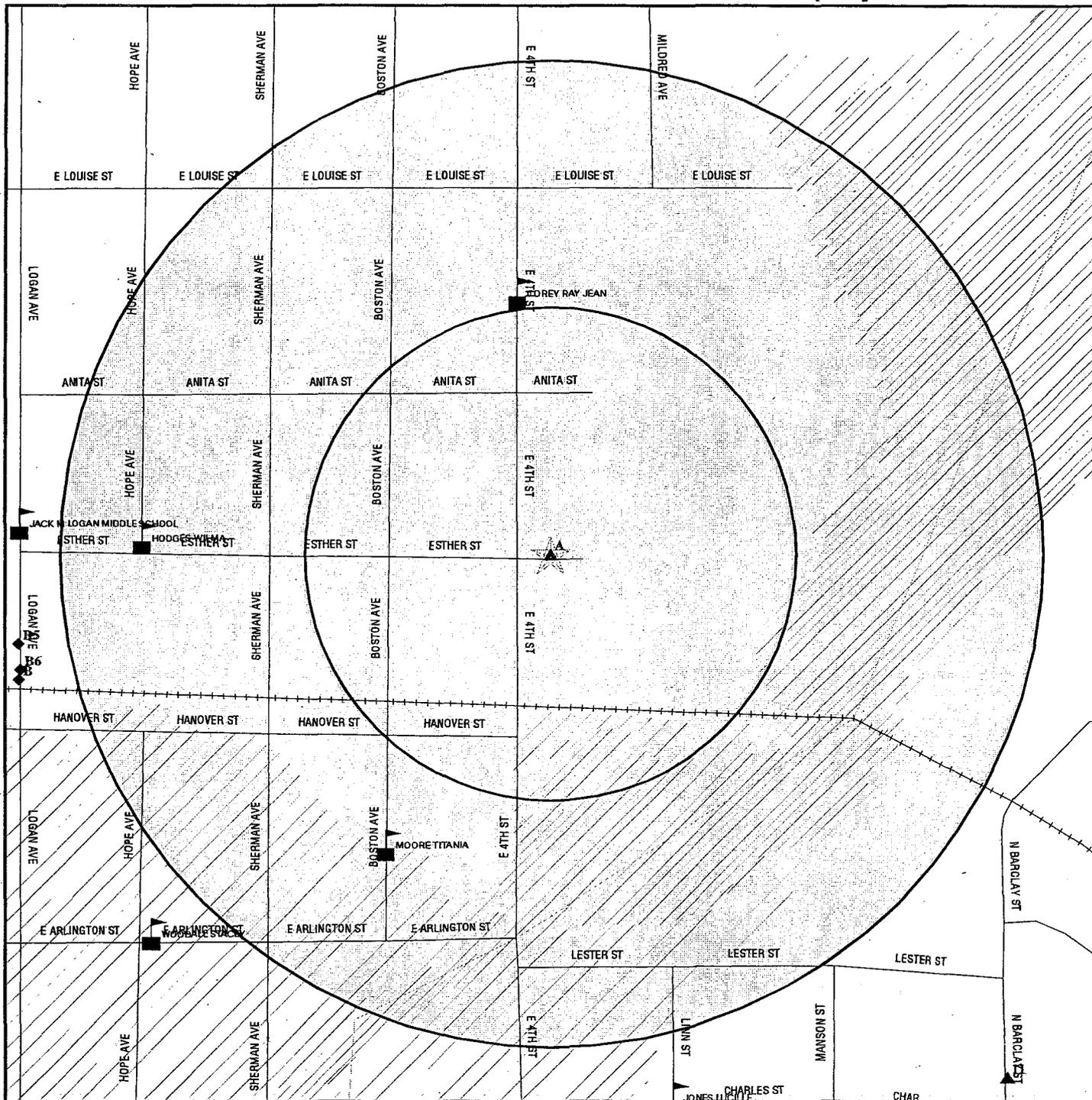
- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ Federal Wetlands



TARGET PROPERTY: Chamberlain Manufacturing Corporation
ADDRESS: 550 Esther Street
CITY/STATE/ZIP: Waterloo IA 50703
LAT/LONG: 42.5213 / 92.3324

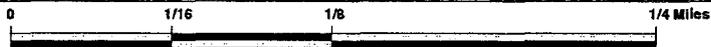
CUSTOMER: Howard R. Green Company
CONTACT: Melissa Edsill
INQUIRY #: 1133124.3s
DATE: February 23, 2004 7:13 am

DETAIL MAP - 1133124.3s - Howard R. Green Company



- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▲ Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▩ 500-year flood zone



TARGET PROPERTY: Chamberlain Manufacturing Corporation ADDRESS: 550 Esther Street CITY/STATE/ZIP: Waterloo IA 50703 LAT/LONG: 42.5213 / 92.3324	CUSTOMER: Howard R. Green Company CONTACT: Melissa Edsill INQUIRY #: 1133124.3s DATE: February 23, 2004 7:13 am
--	--

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL ASTM STANDARD</u>								
NPL		1.125	0	0	0	0	0	0
Proposed NPL		1.125	0	0	0	0	0	0
CERCLIS		0.625	0	0	0	0	NR	0
CERC-NFRAP		0.375	0	0	0	NR	NR	0
CORRACTS	X	1.125	0	0	0	0	0	0
RCRIS-TSD		0.625	0	0	0	0	NR	0
RCRIS Lg. Quan. Gen.		0.375	0	0	0	NR	NR	0
RCRIS Sm. Quan. Gen.	X	0.375	0	0	2	NR	NR	2
ERNS		0.125	0	NR	NR	NR	NR	0
<u>STATE ASTM STANDARD</u>								
State Haz. Waste		1.125	0	0	0	0	0	0
State Landfill		0.625	0	0	0	0	NR	0
LUST		0.625	0	0	2	1	NR	3
UST	X	0.375	0	0	6	NR	NR	6
INDIAN UST		0.375	0	0	0	NR	NR	0
VCP		0.625	0	0	0	0	NR	0
<u>FEDERAL ASTM SUPPLEMENTAL</u>								
CONSENT		1.125	0	0	0	0	0	0
ROD		1.125	0	0	0	0	0	0
Delisted NPL		1.125	0	0	0	0	0	0
FINDS	X	0.125	0	NR	NR	NR	NR	0
HMIRS		0.125	0	NR	NR	NR	NR	0
MLTS		0.125	0	NR	NR	NR	NR	0
MINES		0.375	0	0	0	NR	NR	0
NPL Liens		0.125	0	NR	NR	NR	NR	0
PADS		0.125	0	NR	NR	NR	NR	0
US BROWNFIELDS		0.625	0	0	0	0	NR	0
DOD		1.125	0	0	0	0	0	0
RAATS	X	0.125	0	NR	NR	NR	NR	0
TRIS		0.125	0	NR	NR	NR	NR	0
TSCA		0.125	0	NR	NR	NR	NR	0
SSTS		0.125	0	NR	NR	NR	NR	0
FTTS	X	0.125	0	NR	NR	NR	NR	0
<u>STATE OR LOCAL ASTM SUPPLEMENTAL</u>								
SPILLS		0.125	0	NR	NR	NR	NR	0
AST		0.125	0	NR	NR	NR	NR	0
<u>EDR PROPRIETARY HISTORICAL DATABASES</u>								
Coal Gas		1.125	0	0	0	0	0	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
<u>BROWNFIELDS DATABASES</u>								
US BROWNFIELDS		0.625	0	0	0	0	NR	0
VCP		0.625	0	0	0	0	NR	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	001
Currently In Use: No	Temp Closed Date: 5/1/78 0:00:00
Site Install Date: Not reported	Date Removed: Not reported
Filled Inert: Not reported	Date Filled in Place : Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Not reported
Capacity:	7500
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Petroleum other
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	CHAMBERLAIN NATIONAL CORP
Owner Address:	440 ESTHER ST

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

WATERLOO, IA 50701
 Owner Tel: (000) 000-0000
 Extension: Not reported
 Owner Fax: Not reported
 Owner Type: Private
 Facility Id: 198601774
 Date Owner Signed: 1/22/86 0:00:00
 Multiple Owners: 0
 Owner Certification Last Name: Not reported
 Owner Certification First Name: Not reported
 Owner Certification Middle Initial: Not reported
 Owner Certification Title: Not reported
 Authorized Person Tel: (000) 000-0000
 Extension: Not reported
 Authorized Name: Not reported
 Authorized Address: 00000
 Auth. Fax: Not reported
 Operator Last Name: Not reported
 Operator First Name: Not reported
 Operator Middle Name: Not reported
 Operator Title: Not reported
 Operator Address: Not reported
 Operator Tele: Not reported
 Operator Extension: Not reported
 Operator Fax: Not reported
 Contact Last Name: HARMAN
 Contact First Name: JERRY
 Contact Middle Initial: Not reported
 Contact Title: Not reported
 Contact Tele: (319) 291-1691
 Extension: Not reported
 Contact Fax: Not reported
 Installers Last Name: HARMAN
 Installers First Name: HARMAN
 Installers Middle Init: Not reported
 Installers Company: Not reported
 Installers Date: Not reported
 Financial Date: Not reported
 Insurance Name: Not reported
 Policy Number: Not reported
 Policy Date: Not reported
 Policy End Date: Not reported
 Tank Count: 6
 Number Of Lust: 0000
 Tanks with capacity more than 1100 Gallons: 000
 Tank Number: 002
 Currently In Use: No Temp Closed Date: 5/1/78 0:00:00
 Site Install Date: Not reported Date Removed: Not reported
 Filled Inert: Not reported Date Filled in Place : Not reported
 Inert Material: Not reported
 Date Last Contained Product: Not reported
 Tank Type: Not reported
 Capacity: 7500
 No Further Action Date: Not reported
 Permanently Out of Use: Not reported
 Compartment Case: Not reported
 Compartments: No

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Petroleum other
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	CHAMBERLAIN NATIONAL CORP
Owner Address:	440 ESTHER ST WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198601774
Date Owner Signed:	1/22/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	HARMAN
Contact First Name:	JERRY
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 291-1691
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	HARMAN
Installers First Name:	HARMAN
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	003
Currently In Use:	No
Site Install Date:	Not reported
Filled Inert:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Not reported
Capacity:	7500
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Petroleum other
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	CHAMBERLAIN NATIONAL CORP
Owner Address:	440 ESTHER ST WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198601774
Date Owner Signed:	1/22/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	HARMAN
Contact First Name:	JERRY
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 291-1691
Extension:	Not reported
Contact Fax:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

(Continued)

U003928567

Installers Last Name:	HARMAN
Installers First Name:	HARMAN
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	004
Currently In Use:	No
Site Install Date:	Not reported
Filled Inert:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Not reported
Capacity:	10500
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

Tank Contents:	Petroleum other
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	CHAMBERLAIN NATIONAL CORP
Owner Address:	440 ESTHER ST WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198601774
Date Owner Signed:	1/22/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	HARMAN
Contact First Name:	JERRY
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 291-1691
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	HARMAN
Installers First Name:	HARMAN
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	005
Currently In Use: No	Temp Closed Date: 11/1/84 0:00:00
Site Install Date: 12/1/88 0:00:00	Date Removed: 12/1/88 0:00:00

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

Filled Inert:	Not reported	Date Filled in Place :	Not reported
Inert Material:		Not reported	
Date Last Contained Product:		Not reported	
Tank Type:		Commercial	
Capacity:		10000	
No Further Action Date:		Not reported	
Permanently Out of Use:		Not reported	
Compartment Case:		Not reported	
Compartments:		No	
Compartment Capacity:		0	
Compartment 1 Contents:		Not reported	
Compartment 1 Case:		Not reported	
Compartment 2 Contents:		Not reported	
Compartment 2 Case:		Not reported	
Compartment 2 Capacity:		0	
Compartment 3 Contents:		Not reported	
Compartment 3 Case:		Not reported	
Compartment 3 Capacity:		0	
Compartment 4 Contents:		Not reported	
Compartment 4 Case:		Not reported	
Compartment 4 Capacity:		0	
Compartment 5 Contents:		Not reported	
Compartment 5 Case:		Not reported	
Compartment 5 Capacity:		0	
Compartment 6 Contents:		Not reported	
Compartment 6 Case:		Not reported	
Compartment 6 Capacity:		0	
Tank Material and Construction:		Steel	
Tank Material and Construction Other:		Not reported	
Tank Internal Protection Fiberglass:		Not reported	
TIP Internal Lining:		Not reported	
TIP None:		Not reported	
TIP Internal Unknown:		Not reported	
TIP Internal Other:		Not reported	
Tank External Protection Cathodic:		Not reported	
Date Cathodic Protection Tested:		Not reported	
TEP Asphaltic:		Not reported	
TEP Fiberglass Reinforced Plastic:		Not reported	
TEP Field Install Cathodic Protection:		Not reported	
TEP Factor Install Cathodic Protection:		Not reported	
TEP Impressed Current:		Not reported	
TEP Coal for Epoxy:		Not reported	
TEP Fiberglass Reinforced Urethane:		Not reported	
TEP Agency Specify:		Not reported	
TEP None:		Not reported	
TEP Unknown:		Not reported	
TEP Other:		Not reported	
Other Method Cathodic Protection:		Not reported	
Leak Detection System Vapor Monitoring Wells:		Not reported	
LDS Ground Monitoring Wells:		Not reported	
LDS Interstitial:		Not reported	
LDS Auto-Guaging:		Not reported	
LDS Interstitial Containments:		Not reported	
LDS Tank Tightness Testing:		Not reported	
LDS Statistical:		Not reported	
LDS Manual Guaging:		Not reported	
LDS None:		Not reported	

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928567

LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Petroleum other

The IA UST database contains 1 additional record for this site.
 Please click here or contact your EDR Account Executive for more information.

A2 CHAMBERLAIN MFG CORP
 Target 550 ESTHER ST
 Property WATERLOO, IA 50703

FTTS INSP 1006939405
 N/A

Site 2 of 4 in cluster A

Actual:
 870 ft.

FTTS Insp:
 Region: 07
 Inspected Date: 4/18/1990 0:00:00
 Insp Number: 19900418IA009 1
 Violation occurred: No
 Inspector: WENDT
 Investigation Type: Section 6 PCB State Conducted

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s)
 EDR ID Number
 EPA ID Number

CHAMBERLAIN MFG CORP (Continued)

1006939405

Facility Function: User
 Investig Reason: Not reported
 Legislation Code: TSCA

A3
 Target
 Property

**CHAMBERLAIN MFG CORP - FORMER SITE OF
 550 ESTHER ST
 WATERLOO, IA 50703**

**RCRIS-SQG 1000296814
 FINDS IAD062776422
 RAATS
 CORRACTS**

Site 3 of 4 in cluster A

Actual:
 870 ft.

CORRACTS Data:

EPA Id: IAD062776422
 Region: 7
 Area Name: ENTIRE FACILITY
 Actual Date: 01/28/1992
 Corrective Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
 2002 NAICS Title: Metal Window and Door Manufacturing
 General Freight Trucking, Local

EPA Id: IAD062776422
 Region: 7
 Area Name: ENTIRE FACILITY
 Actual Date: 03/24/1994
 Corrective Action: CA225IN - Stabilization Measures Evaluation, This facility is not , amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available
 2002 NAICS Title: Metal Window and Door Manufacturing
 General Freight Trucking, Local

EPA Id: IAD062776422
 Region: 7
 Area Name: ENTIRE FACILITY
 Actual Date: 09/05/1996
 Corrective Action: CA225NR - Stabilization Measures Evaluation, This facility is , not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
 2002 NAICS Title: Metal Window and Door Manufacturing
 General Freight Trucking, Local

EPA Id: IAD062776422
 Region: 7
 Area Name: ENTIRE FACILITY
 Actual Date: 03/02/1994
 Corrective Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
 2002 NAICS Title: Metal Window and Door Manufacturing
 General Freight Trucking, Local

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

CHAMBERLAIN MFG CORP - FORMER SITE OF (Continued)

1000296814

RCRIS Corrective Action Summary:

Event: Stabilization Measures Evaluation, This facility is not amenable to stabilization activity at the present time for reasons other than 1) it appears to be technically infeasible or inappropriate (NF) or 2) there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

Event Date: 09/05/1996

Event: Stabilization Measures Evaluation, This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.

Event Date: 03/24/1994

Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event Date: 03/02/1994

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event Date: 01/28/1992

RCRIS:

Owner: ATLAS WAREHOUSE LC

EPA ID: IAD062776422

Contact: Not reported

Classification: Small Quantity Generator

TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: cfr265.52(b,c,d,e,f)265.34
 Area of Violation: GENERATOR-OTHER REQUIREMENTS
 Date Violation Determined: 11/19/1991
 Actual Date Achieved Compliance: 01/09/1992

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 11/19/1991
 Penalty Type: Not reported

Regulation Violated: cfr262.70(g)
 Area of Violation: GENERATOR-MANIFEST REQUIREMENTS
 Date Violation Determined: 11/19/1991
 Actual Date Achieved Compliance: 01/09/1992

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 11/19/1991
 Penalty Type: Not reported

Regulation Violated: cfr265.11(a)(b)(c)(d)
 Area of Violation: GENERATOR-RECORDKEEPING REQUIREMENTS
 Date Violation Determined: 11/19/1991
 Actual Date Achieved Compliance: 01/09/1992

Enforcement Action: WRITTEN INFORMAL
 Enforcement Action Date: 11/19/1991
 Penalty Type: Not reported

Regulation Violated: cfr262.34(a)(2)

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

CHAMBERLAIN MFG CORP - FORMER SITE OF (Continued)

1000296814

Area of Violation:	GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined:	11/19/1991
Actual Date Achieved Compliance:	01/09/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	11/19/1991
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS
Date Violation Determined:	05/03/1990
Actual Date Achieved Compliance:	03/27/1991
Enforcement Action:	REQUEST FOR INFO - 3007 LETTER
Enforcement Action Date:	05/03/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	03/01/1990
Actual Date Achieved Compliance:	04/02/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/08/1990
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/22/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	02/08/1990
Actual Date Achieved Compliance:	03/27/1991
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	02/08/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-MANIFEST REQUIREMENTS
Date Violation Determined:	06/29/1989
Actual Date Achieved Compliance:	06/30/1989
Enforcement Action:	REQUEST FOR INFO - 3007 LETTER
Enforcement Action Date:	06/29/1989
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS
Date Violation Determined:	06/29/1989
Actual Date Achieved Compliance:	06/30/1989
Enforcement Action:	REQUEST FOR INFO - 3007 LETTER
Enforcement Action Date:	06/29/1989
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	09/21/1988
Actual Date Achieved Compliance:	09/28/1988
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/21/1989

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

CHAMBERLAIN MFG CORP - FORMER SITE OF (Continued)

1000296814

Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	10/28/1986
Actual Date Achieved Compliance:	09/01/1989
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	10/28/1986
Penalty Type:	Proposed Monetary Penalty
Enforcement Action:	INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	06/30/1987
Penalty Type:	Proposed Monetary Penalty
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	12/02/1988
Penalty Type:	Proposed Monetary Penalty
Regulation Violated:	Not reported
Area of Violation:	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined:	10/28/1986
Actual Date Achieved Compliance:	09/01/1989
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	10/28/1986
Penalty Type:	Proposed Monetary Penalty
Enforcement Action:	INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	06/30/1987
Penalty Type:	Proposed Monetary Penalty
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	12/02/1988
Penalty Type:	Proposed Monetary Penalty
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	10/28/1986
Actual Date Achieved Compliance:	09/01/1989
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	10/28/1986
Penalty Type:	Proposed Monetary Penalty
Enforcement Action:	INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	06/30/1987
Penalty Type:	Proposed Monetary Penalty
Enforcement Action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date:	12/02/1988
Penalty Type:	Proposed Monetary Penalty

There are 13 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-OTHER REQUIREMENTS	19920109
	GENERATOR-MANIFEST REQUIREMENTS	19920109
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19920109
	GENERATOR-RECORDKEEPING REQUIREMENTS	19920109
Non-Financial Record Review	TSD-OTHER REQUIREMENTS	19910327
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19900402
Non-Financial Record Review	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19910327

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

EDR ID Number
 EPA ID Number

CHAMBERLAIN MFG CORP - FORMER SITE OF (Continued)

1000296814

Non-Financial Record Review	TSD-MANIFEST REQUIREMENTS	19890630
	TSD-OTHER REQUIREMENTS	19890630
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19880928
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19890901
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19890901
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19890901

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 AIRS/AIRS Facility Subsystem (AIRS/AFS)
 National Compliance Database (NCDB)
 Resource Conservation and Recovery Act Information system (RCRAINFO)
 Toxic Chemical Release Inventory System (TRIS)

A4 CHAMBERLAIN MFG CORP
 Target 550 ESTER ST
 Property WATERLOO, IA 50703

FTTS INSP 1006939404
N/A

Site 4 of 4 in cluster A

Actual:
 870 ft.

FTTS Insp:
 Region: 07
 Inspected Date: 8/29/1990 0:00:00
 Insp Number: 19900829IA009 2
 Violation occurred: No
 Inspector: WENDT
 Investigation Type: Section 6 PCB State Conducted
 Facility Function: User
 Investig Reason: Not reported
 Legislation Code: TSCA

B5 CREATAFORM-FORMER SITE OF
 West 1430 LOGAN AVE
 1/4-1/2 WATERLOO, IA 50703
 1448 ft.

RCRIS-SQG 1004689744
FINDS IAD069620193

Site 1 of 5 in cluster B

Relative:
 Lower

RCRIS:
 Owner: PEOPLES BANK
 X
 EPA ID: IAD069620193
 Contact: Not reported
 Classification: Small Quantity Generator
 TSDF Activities: Not reported
 Violation Status: No violations found

Actual:
 859 ft.

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Resource Conservation and Recovery Act Information system (RCRAINFO)

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

B6 EXPRESS MART
WSW 1415 LOGAN AVE
 1/4-1/2 WATERLOO, IA 50703
 1458 ft.

UST U003928685
 LUST N/A

Site 2 of 5 in cluster B

Relative:
 Lower

Actual:
 859 ft.

LUST:

Leak Number:	7LTA68	Extension:	Not reported
Owner Name:	MKKS LLC	Owner Type:	Private/Corporate
Owner Address:	MOHAMMAD ANWAR 2823 W. 9TH ST WATERLOO, IA 50702	Coordinator:	RAC
Owner Telephone:	(515) 202-9529	Spill Number:	Not reported
Owner Fax:	Not reported		
Lead:	Responsible Party		
Staff Initials:	RAH		
Facility Address 2:	Not reported		
Leak Contact:	HELEN SHUMWAY		
Leak Address:	EL PASO CORP 1001 LOUISIANA HOUSTON, TX 77002		
Leak Telephone:	(713) 420-2070	Leak Entry Date:	8/1/88 0:00:00
Record Name:	Not reported	Record Date:	Not reported
Record Location:	Other	Reporter Name:	Not reported
Reporter Business:	Not reported		
Reporter Address:	00000		
Reporter Date:	8/1/88 0:00:00	Reporter Telephone:	(000) 000-0000
Discover Date:	Not reported	Discover Time:	Not reported
Occur Date:	Not reported	Occur Time:	Not reported
Delete:	1	ER Date:	Not reported
Responsible Party Name:	HELEN SHUMWAY		
Responsible Party Company:	EL PASO CORP		
Responsible Party Address:	1001 LOUISIANA HOUSTON, TX 77002		
Responsible Party Telephone:	Not reported		
Responsible Party Ext:	Not reported		
Responsible Party Fax:	Not reported		
Ground Water Professional Id:	1538		
Ground Water Professional Receive Date:	1538		
Ground Water Professional Due Date:	1538		
Corrective Action Design Report Id:	1919		
Corrective Action Design Due Date:	6/23/01 0:00:00		
Corrective Action Design Record Date:	6/23/01 0:00:00		
Corrective Action Design Record Date:	6/23/01 0:00:00		
Misc:		Misc Rec Date:	10/18/03 0:00:00
Misc Due Date:	Not reported	Misc Title:	MTBE PER E-MAIL
Misc Other:	Not reported		
Misc:		Misc Rec Date:	10/7/99 0:00:00
Misc Due Date:	Not reported	Misc Title:	MTBE WORKSHEET & DISK
Misc Other:	Not reported		
Misc:		Misc Rec Date:	6/30/00 0:00:00
Misc Due Date:	Not reported	Misc Title:	MTBE WORKSHEET & DISK
Misc Other:	Not reported		
Site Monitoring Report:		SMR Reg Date:	Not reported
SMR Rec Date:	10/7/1999 0:00:00	SMR Due Date:	10/30/1999 0:00:00
SMR Type:	P		
Reclassification Request Type:	Not reported		
Site Monitoring Report:		SMR Reg Date:	Not reported
SMR Rec Date:	9/27/2001 0:00:00		

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s)
 EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

SMR Type:	C	SMR Due Date:	10/30/2001 0:00:00
Reclassification Request Type:	NFA		
Site Monitoring Report:			
SMR Rec Date:	Not reported	SMR Reg Date:	Not reported
SMR Type:	Not reported	SMR Due Date:	Not reported
Reclassification Request Type:	Not reported		
Remediation:			
ID:	1492		
Heat Treatment:	No		
Land Application:	No		
Achieved Over-Excavation:	No		
On Site:	No		
Soil Venting Passive:	No		
Soil Venting Active:	No		
Bioremediation Passive:	No		
Bioremediation Active:	No		
In Situ GW Treatment - Air Sparging:	No		
IGT - pH Adjustment:	No		
Oxygen:	No		
Nutrient:	No		
Biological:	No		
Other:	No		
Surface Treatment - Carbon Absorption:	No		
ST Other:	No		
TDT Sanitary Sewer:	No		
TDT Storm Sewer:	No		
TDT Other:	No		
Reduced Risk Plugged Well:	No		
RR Relocate:	No		
RR Replace:	No		
RR Other:	No		
Delete:	No		
Permit Date:	Not reported		
Memo:	Not reported		
Free Product Recovery:			
FPR Report Assesment Due:	Not reported		
FPR Report Received:	3/15/01 0:00:00		
FPR Report Accepted:	Not reported		
FPR Report Rejected:	Not reported		
FPR Report Revised:	Not reported		
Free Product Recovery:			
FPR Report Assesment Due:	Not reported		
FPR Report Received:	Not reported		
FPR Report Accepted:	Not reported		
FPR Report Rejected:	Not reported		
FPR Report Revised:	Not reported		
Tier 2 Report:			
T2 Assesment Due:	6/15/00 0:00:00		
T2 Received:	6/30/00 0:00:00		
T2 Accepted:	Not reported		
T2 Rejected:	9/18/00 0:00:00		
Tier 2 Report:			
T2 Assesment Due:	12/20/00 0:00:00		
T2 Received:	1/9/01 0:00:00		
T2 Accepted:	4/18/01 0:00:00		
T2 Rejected:	Not reported		

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

Institutional Control:	
IC Obtained Date:	Not reported
IC Type:	Local Ordinances
Institutional Control:	
IC Obtained Date:	8/31/01 0:00:00
IC Type:	Local Ordinances
Administration:	
ID:	1492
Owner Identified:	Yes
Responsible Party Found:	No
RP Date:	8/1/88 0:00:00
Owner Broke:	No
ER Dt:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Amended Dt:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	No
CR Remediation Dt:	Not reported
CR Amnt Received:	Not reported
CR End Date:	Not reported
Delete:	Not reported
Admin Memo:	Not reported
Track:	
Site Assesment Start Date:	9/19/88 0:00:00
FP Recovery End Date:	Not reported
FP Letter Sent Date:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Release Not Verified Date:	Not reported
Ref to Contaminated Site Section:	Not reported
No Action Required:	No
Risk Classification:	No Action Required
Cleanup Start Date:	6/9/95 0:00:00
Cleanup Complete Date:	9/25/03 0:00:00
Cleanup Report Due Date:	4/17/95 0:00:00
Cleanup Report Received Date:	4/26/95 0:00:00
Cleanup Report Approved Date:	6/9/95 0:00:00
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Approved Date:	Not reported
Check Report Rejected Date:	Not reported
Date Classified:	9/25/03 0:00:00
Risk Classification -NFA:	Yes
Class - Low Risk:	No
Class - High Risk:	No
Tier 1 Consultant Recommends:	Not reported
T1 Actual GW Ingestion:	No
T1 Poten GW Ingestion from Non Drink WW:	No
T1 Poten GW Ingestion from Protected GW:	No
T1 GW Vapor to Enclosed Space:	No
T1 GW to Plastic Water Line:	No
T1 Surface Water:	No

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

T1 Soil Leaching to GW:	No
T1 Soil Vapor to Enclosed Space:	No
T1 Soil to Plastic Line:	No
Tier 2 Consultant Recommends:	NFA
T2 Actual GW Ingestion:	NFA
T2 Poten GW Ingestion from Non Drink WW:	NFA
T2 Poten GW Ingestion from Protected GW:	NFA
T2 GW Vapor to Enclosed Space:	NFA
T2 GW to Plastic Water Line:	NFA
T2 SW General Use:	NFA
T2 SW Designated Use:	NFA
T2 Soil Leaching to GW:	NFA
T2 Soil Vapor to Enclosed Space:	NFA
T2 Soil to Plastic Line:	NFA
Institutional Control Obtained:	No
NFA Certificate Sent:	Not reported
Priority Ranking:	3
Status:	
ID:	1492
Discovered During:	Other
Tanks Removed:	0
Leak Cause:	Not reported
Leak Status:	Unknown
Gallons Released:	000000000000
Gas:	Yes
Diesel:	Not reported
Kerosene:	Not reported
Oil:	Not reported
Released Fuel Oil:	Not reported
Rel Hydraulic Oil:	Not reported
Rel Other Petroleum:	Not reported
Rel Unknown:	Not reported
Rel Other Non Petroleum:	Not reported
Loc Ground Water:	Not reported
Loc Surface Water:	Not reported
Loc Water Supply:	Not reported
Loc Soil:	Not reported
Resources Water Well:	Not reported
Res Actual Drinking WW:	Not reported
Res Non-Drink WW:	Not reported
Res Public Water Supply:	Not reported
Res Ground Water:	Not reported
Res Surface Water:	Not reported
Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported

US EPA ARCHIVE DOCUMENT

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

Officials Onsite Health: Not reported
 Officials Onsite Fire: Not reported
 Officials Onsite Law: Not reported
 Officials Onsite Civil: Not reported
 Officials Onsite None: Not reported
 Officials Onsite Other: Not reported
 Officials Onsite Unknown: Not reported
 AST: Not reported
 UST: Not reported
 Delete: No
 LUST Memo: Not reported
 Bedrock:
 Bedrock Category: Not reported
 WS Sample: No
 GIS Survey: No

UST:

Site Status: Regulated Tanks -Active
 County: 07
 Region: 1
 Facility Tel: Not reported
 Extension: Not reported
 Owner Name: MKKS LLC
 Owner Address: MOHAMMAD ANWAR
 2823 W. 9TH ST
 WATERLOO, IA 50702
 Owner Tel: (515) 202-9529
 Extension: Not reported
 Owner Fax: Not reported
 Owner Type: Private
 Facility Id: 198602852
 Date Owner Signed: 2/25/86 0:00:00
 Multiple Owners: 0
 Owner Certification Last Name: Not reported
 Owner Certification First Name: Not reported
 Owner Certification Middle Initial: Not reported
 Owner Certification Title: Not reported
 Authorized Person Tel: Not reported
 Extension: Not reported
 Authorized Name: Not reported
 Authorized Address: Not reported
 Auth. Fax: Not reported
 Operator Last Name: Not reported
 Operator First Name: Not reported
 Operator Middle Name: Not reported
 Operator Title: Not reported
 Operator Address: Not reported
 Operator Tele: Not reported
 Operator Extension: Not reported
 Operator Fax: Not reported
 Contact Last Name: ANWAR
 Contact First Name: MOHAMMAD
 Contact Middle Initial: Not reported
 Contact Title: Not reported
 Contact Tele: (515) 202-9529
 Extension: Not reported
 Contact Fax: Not reported
 Installers Last Name: FRANTZ

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

EXPRESS MART (Continued)

U003928685

Installers First Name:	FRANTZ
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	15
Insurance Name:	PMMIC
Policy Number:	8602852
Policy Date:	10/11/02 0:00:00
Policy End Date:	10/10/03 0:00:00
Tank Count:	7
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	002
Tank Number:	001
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	9/15/94 0:00:00
Date Removed:	9/15/94 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	12000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Yes
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Yes
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Yes
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Not reported
PCP Fiberglass Reinforced Plastic:	Yes
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Yes
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

EXPRESS MART (Continued)

U003928685

Site Status:	Regulated Tanks -Active
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MKKS LLC
Owner Address:	MOHAMMAD ANWAR 2823 W. 9TH ST WATERLOO, IA 50702
Owner Tel:	(515) 202-9529
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198602852
Date Owner Signed:	2/25/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	Not reported
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	Not reported
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	ANWAR
Contact First Name:	MOHAMMAD
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(515) 202-9529
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	FRANTZ
Installers First Name:	FRANTZ
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	15
Insurance Name:	PMMIC
Policy Number:	8602852
Policy Date:	10/11/02 0:00:00
Policy End Date:	10/10/03 0:00:00
Tank Count:	7
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	002
Tank Number:	002
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	9/15/94 0:00:00
Date Removed:	9/15/94 0:00:00

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 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

Filed Inert:	Not reported	Date Filled in Place :	Not reported
Inert Material:		Not reported	
Date Last Contained Product:		Not reported	
Tank Type:		Commercial	
Capacity:		22000	
No Further Action Date:		Not reported	
Permanently Out of Use:		Not reported	
Compartment Case:		Not reported	
Compartments:		No	
Compartment Capacity:		0	
Compartment 1 Contents:		Not reported	
Compartment 1 Case:		Not reported	
Compartment 2 Contents:		Not reported	
Compartment 2 Case:		Not reported	
Compartment 2 Capacity:		0	
Compartment 3 Contents:		Not reported	
Compartment 3 Case:		Not reported	
Compartment 3 Capacity:		0	
Compartment 4 Contents:		Not reported	
Compartment 4 Case:		Not reported	
Compartment 4 Capacity:		0	
Compartment 5 Contents:		Not reported	
Compartment 5 Case:		Not reported	
Compartment 5 Capacity:		0	
Compartment 6 Contents:		Not reported	
Compartment 6 Case:		Not reported	
Compartment 6 Capacity:		0	
Tank Material and Construction:		Steel	
Tank Material and Construction Other:		Not reported	
Tank Internal Protection Fiberglass:		Not reported	
TIP Internal Lining:		Not reported	
TIP None:		Yes	
TIP Internal Unknown:		Not reported	
TIP Internal Other:		Not reported	
Tank External Protection Cathodic:		Not reported	
Date Cathodic Protection Tested:		Not reported	
TEP Asphaltic:		Not reported	
TEP Fiberglass Reinforced Plastic:		Not reported	
TEP Field Install Cathodic Protection:		Not reported	
TEP Factor Install Cathodic Protection:		Not reported	
TEP Impressed Current:		Not reported	
TEP Coal for Epoxy:		Not reported	
TEP Fiberglass Reinforced Urethane:		Not reported	
TEP Agency Specify:		Not reported	
TEP None:		Yes	
TEP Unknown:		Not reported	
TEP Other:		Not reported	
Other Method Cathodic Protection:		Not reported	
Leak Detection System Vapor Monitoring Wells:		Not reported	
LDS Ground Monitoring Wells:		Not reported	
LDS Interstitial:		Not reported	
LDS Auto-Gauging:		Not reported	
LDS Interstitial Containments:		Not reported	
LDS Tank Tightness Testing:		Yes	
LDS Statistical:		Not reported	
LDS Manual Gauging:		Not reported	
LDS None:		Not reported	

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Not reported
PCP Fiberglass Reinforced Plastic:	Yes
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Yes
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks -Active
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MKKS LLC
Owner Address:	MOHAMMAD ANWAR 2823 W. 9TH ST WATERLOO, IA 50702
Owner Tel:	(515) 202-9529
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198602852

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

EXPRESS MART (Continued)

U003928685

Date Owner Signed: 2/25/86 0:00:00
Multiple Owners: 0
Owner Certification Last Name: Not reported
Owner Certification First Name: Not reported
Owner Certification Middle Initial: Not reported
Owner Certification Title: Not reported
Authorized Person Tel: Not reported
Extension: Not reported
Authorized Name: Not reported
Authorized Address: Not reported
Auth. Fax: Not reported
Operator Last Name: Not reported
Operator First Name: Not reported
Operator Middle Name: Not reported
Operator Title: Not reported
Operator Address: Not reported
Operator Tele: Not reported
Operator Extension: Not reported
Operator Fax: Not reported
Contact Last Name: ANWAR
Contact First Name: MOHAMMAD
Contact Middle Initial: Not reported
Contact Title: Not reported
Contact Tele: (515) 202-9529
Extension: Not reported
Contact Fax: Not reported
Installers Last Name: FRANTZ
Installers First Name: FRANTZ
Installers Middle Init: G
Installers Company: Not reported
Installers Date: Not reported
Financial Date: 15
Insurance Name: PMMIC
Policy Number: 8602852
Policy Date: 10/11/02 0:00:00
Policy End Date: 10/10/03 0:00:00
Tank Count: 7
Number Of Lust: 0001
Tanks with capacity more than 1100 Gallons: 002
Tank Number: 003
Currently In Use: No
Site Install Date: 9/15/94 0:00:00
Filled Inert: Not reported
Inert Material: Not reported
Date Last Contained Product: Not reported
Tank Type: Commercial
Capacity: 12000
No Further Action Date: Not reported
Permanently Out of Use: Not reported
Compartment Case: Not reported
Compartments: No
Compartment Capacity: 0
Compartment 1 Contents: Not reported
Compartment 1 Case: Not reported
Compartment 2 Contents: Not reported
Compartment 2 Case: Not reported
Compartment 2 Capacity: 0

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

EXPRESS MART (Continued)

U003928685

Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Yes
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Yes
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Yes
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Not reported
PCP Fiberglass Reinforced Plastic:	Yes
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Yes
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks -Active
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MKKS LLC
Owner Address:	MOHAMMAD ANWAR 2823 W. 9TH ST WATERLOO, IA 50702
Owner Tel:	(515) 202-9529
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198602852
Date Owner Signed:	2/25/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	Not reported
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	Not reported
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s)
 EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	ANWAR
Contact First Name:	MOHAMMAD
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(515) 202-9529
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	FRANTZ
Installers First Name:	FRANTZ
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	15
Insurance Name:	PMMIC
Policy Number:	8602852
Policy Date:	10/11/02 0:00:00
Policy End Date:	10/10/03 0:00:00
Tank Count:	7
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	002
Tank Number:	004
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	9/15/94 0:00:00
Date Removed:	9/15/94 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	12000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

TIP Internal Lining:	Not reported
TIP None:	Yes
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Yes
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Yes
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Not reported
PCP Fiberglass Reinforced Plastic:	Yes
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Yes
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks -Active
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MKKS LLC
Owner Address:	MOHAMMAD ANWAR 2823 W. 9TH ST WATERLOO, IA 50702
Owner Tel:	(515) 202-9529
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198602852
Date Owner Signed:	2/25/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	Not reported
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	Not reported
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	ANWAR
Contact First Name:	MOHAMMAD
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(515) 202-9529
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	FRANTZ
Installers First Name:	FRANTZ
Installers Middle Init:	G
Installers Company:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

EXPRESS MART (Continued)

U003928685

Installers Date:	Not reported
Financial Date:	15
Insurance Name:	PMMIC
Policy Number:	8602852
Policy Date:	10/11/02 0:00:00
Policy End Date:	10/10/03 0:00:00
Tank Count:	7
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	002
Tank Number:	005
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	9/15/94 0:00:00
Date Removed:	9/15/94 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	12000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Yes
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Yes

US EPA ARCHIVE DOCUMENT

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Guaging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Yes
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Not reported
PCP Fiberglass Reinforced Plastic:	Yes
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Yes
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

EXPRESS MART (Continued)

U003928685

The IA UST database contains 2 additional records for this site.
 Please click here or contact your EDR Account Executive for more information.

B7
WSW
 1/4-1/2
 1467 ft.

PRECISION AUTO BODY CENTER
1405 LOGAN AVE
WATERLOO, IA 50703

RCRIS-SQG 1004690648
FINDS IAD984616722

Site 3 of 5 in cluster B

Relative:
Lower

RCRIS:
 Owner: DOUG MCCALLEY
 (319) 236-1592

Actual:
 859 ft.

EPA ID: IAD984616722

Contact: Not reported

Classification: Conditionally Exempt Small Quantity Generator

TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 Resource Conservation and Recovery Act Information system (RCRAINFO)

B8
WSW
 1/4-1/2
 1468 ft.

1402 LOGAN AVE
WATERLOO, IA 50703

UST **U003928507**
N/A

Site 4 of 5 in cluster B

Relative:
Lower

UST:
 Site Status: Regulated Tanks R/F
 County: 07
 Region: 1
 Facility Tel: Not reported
 Extension: Not reported
 Owner Name: WATERLOO SERVICE CO
 Owner Address: 1402 LOGAN AVE BOX 300
 WATERLOO, IA 50704
 Owner Tel: (319) 233-4232
 Extension: Not reported
 Owner Fax: Not reported
 Owner Type: Private
 Facility Id: 198601403
 Date Owner Signed: 1/15/85 0:00:00
 Multiple Owners: 0
 Owner Certification Last Name: Not reported
 Owner Certification First Name: Not reported
 Owner Certification Middle Initial: Not reported
 Owner Certification Title: Not reported
 Authorized Person Tel: (000) 000-0000
 Extension: Not reported
 Authorized Name: Not reported
 Authorized Address: 00000
 Auth. Fax: Not reported
 Operator Last Name: Not reported
 Operator First Name: Not reported
 Operator Middle Name: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	KOHAGEN
Contact First Name:	DON
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 233-4232
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	KOHAGEN
Installers First Name:	KOHAGEN
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	4
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	001
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	11/13/89 0:00:00
Date Removed:	11/13/89 0:00:00
Filed Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	4000
No Further Action Date:	1/1/00 0:00:00
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

(Continued)

U003928507

Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	WATERLOO SERVICE CO
Owner Address:	1402 LOGAN AVE BOX 300 WATERLOO, IA 50704
Owner Tel:	(319) 233-4232
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198601403
Date Owner Signed:	1/15/85 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	KOHAGEN
Contact First Name:	DON
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 233-4232
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	KOHAGEN
Installers First Name:	KOHAGEN
Installers Middle Init:	Not reported
Installers Company:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

(Continued)

U003928507

Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	4
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	002
Currently In Use: No	Temp Closed Date: Not reported
Site Install Date: 11/13/89 0:00:00	Date Removed: 11/13/89 0:00:00
Filled Inert: Not reported	Date Filled in Place : Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	4000
No Further Action Date:	1/1/00 0:00:00
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Diesel
Site Status:	Regulated Tanks R/F
County:	07

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	WATERLOO SERVICE CO
Owner Address:	1402 LOGAN AVE BOX 300 WATERLOO, IA 50704
Owner Tel:	(319) 233-4232
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198601403
Date Owner Signed:	1/15/85 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	KOHAGEN
Contact First Name:	DON
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 233-4232
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	KOHAGEN
Installers First Name:	KOHAGEN
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	4
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	003
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	11/13/89 0:00:00
Date Removed:	11/13/89 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

(Continued)

U003928507

Capacity:	4000
No Further Action Date:	1/1/00 0:00:00
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Guaging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Petroleum other
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	WATERLOO SERVICE CO
Owner Address:	1402 LOGAN AVE BOX 300 WATERLOO, IA 50704
Owner Tel:	(319) 233-4232
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198601403
Date Owner Signed:	1/15/85 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	KOHAGEN
Contact First Name:	DON
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 233-4232
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	KOHAGEN
Installers First Name:	KOHAGEN
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	4
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	004
Currently In Use: No	Temp Closed Date: Not reported
Site Install Date: 10/27/98 0:00:00	Date Removed: 10/27/98 0:00:00
Filled Inert: Not reported	Date Filled in Place : Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	6000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Yes
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Guaging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928507

PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Hazardous

B9 MEMBERS MUTUAL OIL CO
WSW 1402 LOGAN AVE
1/4-1/2 WATERLOO, IA 50704
1469 ft.

UST U003632819
N/A

Site 5 of 5 in cluster B

Relative:
 Lower

UST:

Actual:
 859 ft.

Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MEMBERS MUTUAL OIL CO
Owner Address:	1402 LOGAN AVE PO BOX 636 WATERLOO, IA 50704
Owner Tel:	(000) 234-4695
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198603888
Date Owner Signed:	4/2/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	WELTGE
Contact First Name:	WARREN
Contact Middle Initial:	G
Contact Title:	Not reported
Contact Tele:	(000) 234-4695
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WELTGE
Installers First Name:	WELTGE
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	001
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	9/1/87 0:00:00
Date Removed:	9/1/87 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	12000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Guaging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MEMBERS MUTUAL OIL CO
Owner Address:	1402 LOGAN AVE PO BOX 636 WATERLOO, IA 50704
Owner Tel:	(000) 234-4695
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198603888
Date Owner Signed:	4/2/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	WELTGE
Contact First Name:	WARREN
Contact Middle Initial:	G
Contact Title:	Not reported
Contact Tele:	(000) 234-4695
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WELTGE
Installers First Name:	WELTGE
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	002
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	9/1/87 0:00:00
Date Removed:	9/1/87 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	17000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported

US EPA ARCHIVE DOCUMENT

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Extension:	Not reported
Owner Name:	MEMBERS MUTUAL OIL CO
Owner Address:	1402 LOGAN AVE PO BOX 636 WATERLOO, IA 50704
Owner Tel:	(000) 234-4695
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198603888
Date Owner Signed:	4/2/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	WELTGE
Contact First Name:	WARREN
Contact Middle Initial:	G
Contact Title:	Not reported
Contact Tele:	(000) 234-4695
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WELTGE
Installers First Name:	WELTGE
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	003
Currently In Use:	No
Site Install Date:	9/1/87 0:00:00
Filled Inert:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	17000
No Further Action Date:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MEMBERS MUTUAL OIL CO
Owner Address:	1402 LOGAN AVE PO BOX 636 WATERLOO, IA 50704
Owner Tel:	(000) 234-4695
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198603888
Date Owner Signed:	4/2/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	WELTGE
Contact First Name:	WARREN
Contact Middle Initial:	G
Contact Title:	Not reported
Contact Tele:	(000) 234-4695
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WELTGE
Installers First Name:	WELTGE
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	004
Currently In Use:	No
Site Install Date:	9/1/87 0:00:00
Filled Inert:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	10000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	MEMBERS MUTUAL OIL CO
Owner Address:	1402 LOGAN AVE PO BOX 636 WATERLOO, IA 50704
Owner Tel:	(000) 234-4695
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198603888
Date Owner Signed:	4/2/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	WELTGE
Contact First Name:	WARREN
Contact Middle Initial:	G
Contact Title:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Contact Tele: (000) 234-4695
Extension: Not reported
Contact Fax: Not reported
Installers Last Name: WELTGE
Installers First Name: WELTGE
Installers Middle Init: G
Installers Company: Not reported
Installers Date: Not reported
Financial Date: Not reported
Insurance Name: Not reported
Policy Number: Not reported
Policy Date: Not reported
Policy End Date: Not reported
Tank Count: 6
Number Of Lust: 0000
Tanks with capacity more than 1100 Gallons: 000
Tank Number: 005
Currently In Use: No Temp Closed Date: Not reported
Site Install Date: 10/1/87 0:00:00 Date Removed: 10/1/87 0:00:00
Filled Inert: Not reported Date Filled in Place : Not reported
Inert Material: Not reported
Date Last Contained Product: Not reported
Tank Type: Commercial
Capacity: 1000
No Further Action Date: Not reported
Permanently Out of Use: Not reported
Compartment Case: Not reported
Compartments: No
Compartment Capacity: 0
Compartment 1 Contents: Not reported
Compartment 1 Case: Not reported
Compartment 2 Contents: Not reported
Compartment 2 Case: Not reported
Compartment 2 Capacity: 0
Compartment 3 Contents: Not reported
Compartment 3 Case: Not reported
Compartment 3 Capacity: 0
Compartment 4 Contents: Not reported
Compartment 4 Case: Not reported
Compartment 4 Capacity: 0
Compartment 5 Contents: Not reported
Compartment 5 Case: Not reported
Compartment 5 Capacity: 0
Compartment 6 Contents: Not reported
Compartment 6 Case: Not reported
Compartment 6 Capacity: 0
Tank Material and Construction: Steel
Tank Material and Construction Other: Not reported
Tank Internal Protection Fiberglass: Not reported
TIP Internal Lining: Not reported
TIP None: Not reported
TIP Internal Unknown: Not reported
TIP Internal Other: Not reported
Tank External Protection Cathodic: Not reported
Date Cathodic Protection Tested: Not reported
TEP Asphaltic: Not reported
TEP Fiberglass Reinforced Plastic: Not reported

US EPA ARCHIVE DOCUMENT

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Guaging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MEMBERS MUTUAL OIL CO (Continued)

U003632819

Other Installation: Not reported
 Installer Cert. by LUST Board: Not reported
 Installation Cert. by LUST Board Cert. Inspector: Not reported
 Tank Contents: Diesel

The IA UST database contains 1 additional record for this site.
 Please click here or contact your EDR Account Executive for more information.

10
North
1/4-1/2
1655 ft.

604 E DALE STREET
WATERLOO, IA 50703

UST U003928420
N/A

Relative:
Higher

UST:

Actual:
879 ft.

Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	WATERLOO WATER WORKS
Owner Address:	PO BOX 27
	WATERLOO, IA 50704
Owner Tel:	(319) 232-6280
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Municipal
Facility Id:	198600678
Date Owner Signed:	-12/16/85 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	CRAFT
Contact First Name:	REED
Contact Middle Initial:	G
Contact Title:	Not reported
Contact Tele:	(319) 232-6280
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	CRAFT
Installers First Name:	CRAFT
Installers Middle Init:	G
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

EDR ID Number
 EPA ID Number
 Database(s)

(Continued)

U003928420

Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	1
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	001
Currently In Use: No	Temp Closed Date: Not reported
Site Install Date: 11/1/87 0:00:00	Date Removed: 11/1/87 0:00:00
Filled Inert: Not reported	Date Filled in Place : Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Other
Capacity:	1500
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	FRP
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

U003928420

Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Not reported
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Diesel

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

11 TOM DOLAN CONCRETE
 SE 1316 N BARCLAY
 1/4-1/2 WATERLOO, IA 50703
 1861 ft.

UST U001729996
 N/A

Relative: Higher
 Actual: 872 ft.

UST:
 Site Status: Regulated Tanks R/F
 07
 County: 1
 Region: Not reported
 Facility Tel: Not reported
 Extension: Not reported
 Owner Name: TOM DOLAN CONCRETE
 Owner Address: 1316 N BARCLAY
 WATERLOO, IA 50703
 Owner Tel: (319) 234-6524
 Extension: Not reported
 Owner Fax: Not reported
 Owner Type: Private
 Facility Id: 198811210
 Date Owner Signed: 4/21/88 0:00:00
 Multiple Owners: 0
 Owner Certification Last Name: Not reported
 Owner Certification First Name: Not reported
 Owner Certification Middle Initial: Not reported
 Owner Certification Title: Not reported
 Authorized Person Tel: (000) 000-0000
 Extension: Not reported
 Authorized Name: Not reported
 Authorized Address: 00000
 Auth. Fax: Not reported
 Operator Last Name: Not reported
 Operator First Name: Not reported
 Operator Middle Name: Not reported
 Operator Title: Not reported
 Operator Address: Not reported
 Operator Tele: Not reported
 Operator Extension: Not reported
 Operator Fax: Not reported
 Contact Last Name: DOLAN
 Contact First Name: TOM
 Contact Middle Initial: Not reported
 Contact Title: Not reported
 Contact Tele: (319) 234-6524
 Extension: Not reported
 Contact Fax: Not reported
 Installers Last Name: DOLAN
 Installers First Name: DOLAN
 Installers Middle Init: E
 Installers Company: Not reported
 Installers Date: Not reported
 Financial Date: Not reported
 Insurance Name: Not reported
 Policy Number: Not reported
 Policy Date: Not reported
 Policy End Date: Not reported
 Tank Count: 1
 Number Of Lust: 0000
 Tanks with capacity more than 1100 Gallons: 000
 Tank Number: 001

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

TOM DOLAN CONCRETE (Continued)

U001729996

Currently In Use:	No	Temp Closed Date:	Not reported
Site Install Date:	9/4/90 0:00:00	Date Removed:	9/4/90 0:00:00
Filled Inert:	Not reported	Date Filled in Place :	Not reported
Inert Material:			Not reported
Date Last Contained Product:			Not reported
Tank Type:			Commercial
Capacity:			1000
No Further Action Date:			1/1/00 0:00:00
Permanently Out of Use:			Not reported
Compartment Case:			Not reported
Compartment:			No
Compartment Capacity:			0
Compartment 1 Contents:			Not reported
Compartment 1 Case:			Not reported
Compartment 2 Contents:			Not reported
Compartment 2 Case:			Not reported
Compartment 2 Capacity:			0
Compartment 3 Contents:			Not reported
Compartment 3 Case:			Not reported
Compartment 3 Capacity:			0
Compartment 4 Contents:			Not reported
Compartment 4 Case:			Not reported
Compartment 4 Capacity:			0
Compartment 5 Contents:			Not reported
Compartment 5 Case:			Not reported
Compartment 5 Capacity:			0
Compartment 6 Contents:			Not reported
Compartment 6 Case:			Not reported
Compartment 6 Capacity:			0
Tank Material and Construction:			Steel
Tank Material and Construction Other:			Not reported
Tank Internal Protection Fiberglass:			Not reported
TIP Internal Lining:			Not reported
TIP None:			Not reported
TIP Internal Unknown:			Not reported
TIP Internal Other:			UNKNOWN
Tank External Protection Cathodic:			Not reported
Date Cathodic Protection Tested:			Not reported
TEP Asphaltic:			Not reported
TEP Fiberglass Reinforced Plastic:			Not reported
TEP Field Install Cathodic Protection:			Not reported
TEP Factor Install Cathodic Protection:			Not reported
TEP Impressed Current:			Not reported
TEP Coal for Epoxy:			Not reported
TEP Fiberglass Reinforced Urethane:			Not reported
TEP Agency Specify:			Not reported
TEP None:			Not reported
TEP Unknown:			Not reported
TEP Other:			Not reported
Other Method Cathodic Protection:			Not reported
Leak Detection System Vapor Monitoring Wells:			Not reported
LDS Ground Monitoring Wells:			Not reported
LDS Interstitial:			Not reported
LDS Auto-Gauging:			Not reported
LDS Interstitial Containments:			Not reported
LDS Tank Tightness Testing:			Not reported
LDS Statistical:			Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
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TOM DOLAN CONCRETE (Continued)

U001729996

LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline

12
 ESE
 1/4-1/2
 1873 ft.

CITY OF WATERLOO
1601 N BARCLAY
WATERLOO, IA 50703

UST U003172142
 LUST N/A

Relative:
 Higher

LUST:
 Leak Number: 7LTD87
 Owner Name: CITY OF WATERLOO-PARK COMMISSION
 Owner Address: 1101 CAMPBELL AVE
 WATERLOO, IA 50701

Actual:
 873 ft.

Owner Telephone:	(319) 291-4370	Extension:	Not reported
Owner Fax:	Not reported	Owner Type:	Municipal
Lead:	Responsible Party	Coordinator:	RAC
Staff Initials:	Not reported	Spill Number:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

CITY OF WATERLOO (Continued)

U003172142

Facility Address 2: Not reported
Leak Contact: LARRY CUNNINGHAM
Leak Address: Not reported
Leak Telephone: (319) 291-4145
Record Name: SCHRUNK
Record Location: Lust
Reporter Business: Not reported
Reporter Address: 1314 BLACKHAWK
WATERLOO, IA 50702
Reporter Date: 6/22/89 0:00:00
Discover Date: Not reported
Occur Date: Not reported
Delete: 0
Responsible Party Name: Not reported
Responsible Party Company: Not reported
Responsible Party Address: Not reported
Responsible Party Telephone: Not reported
Responsible Party Ext: Not reported
Responsible Party Fax: Not reported
Ground Water Professional Id: Not reported
Ground Water Professional Receive Date: Not reported
Ground Water Professional Due Date: Not reported
Corrective Action Design Report Id: Not reported
Corrective Action Design Due Date: Not reported
Corrective Action Design Record Date: Not reported
Corrective Action Design Record Date: Not reported
Misc:
Misc Due Date: Not reported
Misc Other: Not reported
Misc Rec Date: Not reported
Misc Title: Not reported
Remediation:
ID: 5085
Heat Treatment: No
Land Application: No
Achieved Over-Excavation: No
On Site: No
Soil Venting Passive: No
Soil Venting Active: No
Bioremediation Passive: No
Bioremediation Active: No
In Situ GW Treatment - Air Sparging: No
IGT - pH Adjustment: No
Oxygen: No
Nutrient: No
Biological: No
Other: No
Surface Treatment - Carbon Absorption: No
ST Other: No
TDT Sanitary Sewer: No
TDT Storm Sewer: No
TDT Other: No
Reduced Risk Plugged Well: No
RR Relocate: No
RR Replace: No
RR Other: No
Delete: No
Permit Date: Not reported
Memo: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

CITY OF WATERLOO (Continued)

U003172142

T1 Surface Water:	No
T1 Soil Leaching to GW:	No
T1 Soil Vapor to Enclosed Space:	No
T1 Soil to Plastic Line:	No
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Non Drink WW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	No
NFA Certificate Sent:	9/29/97 0:00:00
Priority Ranking:	5
Status:	
ID:	5085
Discovered During:	Other
Tanks Removed:	0
Leak Cause:	Not reported
Leak Status:	Unknown
Gallons Released:	000000000000
Gas:	Yes
Diesel:	Not reported
Kerosene:	Not reported
Oil:	Not reported
Released Fuel Oil:	Not reported
Rel Hydraulic Oil:	Not reported
Rel Other Petroleum:	Not reported
Rel Unknown:	Not reported
Rel Other Non Petroleum:	Not reported
Loc Ground Water:	Yes
Loc Surface Water:	Not reported
Loc Water Supply:	Not reported
Loc Soil:	Yes
Resources Water Well:	Not reported
Res Actual Drinking WW:	Not reported
Res Non-Drink WW:	Not reported
Res Public Water Supply:	Not reported
Res Ground Water:	Not reported
Res Surface Water:	Not reported
Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported

Map ID
 Direction
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 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

CITY OF WATERLOO (Continued)

U003172142

Res Impacted Other:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Yes
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Not reported
Officials Onsite Other:	Not reported
Officials Onsite Unknown:	Not reported
AST:	Not reported
UST:	Not reported
Delete:	No
LUST Memo:	Not reported

UST:

Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	CITY OF WATERLOO-PARK COMMISSION
Owner Address:	1101 CAMPBELL AVE WATERLOO, IA 50701
Owner Tel:	(319) 291-4370
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Municipal
Facility Id:	198912633
Date Owner Signed:	5/24/89 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(319) 291-4370
Extension:	Not reported
Authorized Name:	RICHARD CARLSON
Authorized Address:	1101 CAMPBELL AVE WATERLOO, IA 50701
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	CHRISTIANS
Contact First Name:	DAVE
Contact Middle Initial:	Not reported
Contact Title:	GREENKEEPER
Contact Tele:	(319) 291-4542
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	CARLSON
Installers First Name:	CARLSON
Installers Middle Init:	Not reported
Installers Company:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

CITY OF WATERLOO (Continued)

U003172142

Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	1
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	001
Currently In Use: No	Temp Closed Date: Not reported
Site Install Date: 12/21/94 0:00:00	Date Removed: 12/21/94 0:00:00
Filled Inert: Not reported	Date Filled in Place : Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Other
Capacity:	300
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Yes
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Yes

Map ID
 Direction
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 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
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CITY OF WATERLOO (Continued)

U003172142

TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Yes
LDS None:	Yes
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline

Map ID
 Direction
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 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

CITY OF WATERLOO (Continued)

U003172142

13 STOKES MART
 South 1611 E 4TH ST
 1/2-1 WATERLOO, IA 50703
 3211 ft.

UST U003171185
 LUST N/A

Relative: LUST:
 Lower Leak Number: 8LTV80
 Owner Name: W. C. STOKES
 Actual: Owner Address: 2111 SKYLINE DR
 855 ft. WATERLOO, IA 50701

Owner Telephone: (000) 000-0000	Extension: Not reported
Owner Fax: Not reported	Owner Type: Private/Corporate
Lead: State Fund	Coordinator: RAC
Staff Initials: RAC	Spill Number: Not reported
Facility Address 2: Not reported	
Leak Contact: W C STOKES	
Leak Address: Not reported	
Leak Telephone: (319) 232-6591	Leak Entry Date: 3/29/93 0:00:00
Record Name: ROGGE	Record Date: 3/26/93 0:00:00
Record Location: UST	Reporter Name: LAVERNE LEHMAN
Reporter Business: LEHMAN TRUCKING & EXCAVATING	
Reporter Address: 323 KOTHE WATERLOO, IA 50703	
Reporter Date: 2/25/93 0:00:00	Reporter Telephone: (319) 235-6163
Discover Date: Not reported	Discover Time: Not reported
Occur Date: Not reported	Occur Time: Not reported
Delete: 0	ER Date: Not reported

Responsible Party Name: W.C. STOKES
 Responsible Party Company: STOKES MART INC.
 Responsible Party Address: 139 CLARK STREET
 WATERLOO, IA 50703

Responsible Party Telephone: Not reported
 Responsible Party Ext: Not reported
 Responsible Party Fax: Not reported
 Ground Water Professional Id: 1619
 Ground Water Professional Receive Date: 1619
 Ground Water Professional Due Date: 1619
 Corrective Action Design Report Id: Not reported
 Corrective Action Design Due Date: Not reported
 Corrective Action Design Record Date: Not reported
 Corrective Action Design Record Date: Not reported

Misc:
 Misc Due Date: Not reported
 Misc Other: Not reported
 Misc Rec Date: 12/12/00 0:00:00
 Misc Title: MTBE WORKSHEET & DISK

Remediation:
 ID: 3874
 Heat Treatment: No
 Land Application: No
 Achieved Over-Excavation: No
 On Site: No
 Soil Venting Passive: No
 Soil Venting Active: No
 Bioremediation Passive: No
 Bioremediation Active: No
 In Situ GW Treatment - Air Sparging: No
 IGT - pH Adjustment: No
 Oxygen: No
 Nutrient: No

Map ID
 Direction
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 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
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STOKES MART (Continued)

U003171185

Biological:	No
Other:	No
Surface Treatment - Carbon Absorption:	No
ST Other:	No
TDT Sanitary Sewer:	No
TDT Storm Sewer:	No
TDT Other:	No
Reduced Risk Plugged Well:	No
RR Relocate:	No
RR Replace:	No
RR Other:	No
Delete:	No
Permit Date:	Not reported
Memo:	Not reported
Tier 2 Report:	
T2 Assesment Due:	12/8/00 0:00:00
T2 Received:	12/12/00 0:00:00
T2 Accepted:	10/16/01 0:00:00
T2 Rejected:	Not reported
Administration:	
ID:	3874
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	3/29/93 0:00:00
Owner Broke:	No
ER Dt:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Amended Dt:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	No
CR Remediation Dt:	Not reported
CR Amnt Received:	Not reported
CR End Date:	Not reported
Delete:	Not reported
Admin Memo:	Not reported
Track:	
Site Assesment Start Date:	3/30/93 0:00:00
FP Recovery End Date:	Not reported
FP Letter Sent Date:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Release Not Verified Date:	Not reported
Ref to Contaminated Site Section:	Not reported
No Action Required:	No
Risk Classification:	No Action Required
Cleanup Start Date:	3/29/93 0:00:00
Cleanup Complete Date:	10/16/01 0:00:00
Cleanup Report Due Date:	Not reported
Cleanup Report Received Date:	Not reported
Cleanup Report Approved Date:	Not reported
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

STOKES MART (Continued)

U003171185

Check Report Approved Date: Not reported
Check Report Rejected Date: Not reported
Date Classified: 10/16/01 0:00:00
Risk Classification -NFA: Yes
Class - Low Risk: No
Class - High Risk: No
Tier 1 Consultant Recommends: Not reported
T1 Actual GW Ingestion: No
T1 Poten GW Ingestion from Non Drink WW: No
T1 Poten GW Ingestion from Protected GW: No
T1 GW Vapor to Enclosed Space: No
T1 GW to Plastic Water Line: No
T1 Surface Water: No
T1 Soil Leaching to GW: No
T1 Soil Vapor to Enclosed Space: No
T1 Soil to Plastic Line: No
Tier 2 Consultant Recommends: NFA
T2 Actual GW Ingestion: NFA
T2 Poten GW Ingestion from Non Drink WW: NFA
T2 Poten GW Ingestion from Protected GW: NFA
T2 GW Vapor to Enclosed Space: NFA
T2 GW to Plastic Water Line: NFA
T2 SW General Use: NFA
T2 SW Designated Use: NFA
T2 Soil Leaching to GW: NFA
T2 Soil Vapor to Enclosed Space: NFA
T2 Soil to Plastic Line: NFA
Institutional Control Obtained: No
NFA Certificate Sent: Not reported
Priority Ranking: 5

Status:

ID: 3874
Discovered During: Removal
Tanks Removed: 06
Leak Cause: UNK
Leak Status: Stopped
Gallons Released: UNK000000000
Gas: Yes
Diesel: Yes
Kerosene: Not reported
Oil: Yes
Released Fuel Oil: Not reported
Rel Hydraulic Oil: Not reported
Rel Other Petroleum: Not reported
Rel Unknown: Not reported
Rel Other Non Petroleum: Not reported
Loc Ground Water: Yes
Loc Surface Water: Not reported
Loc Water Supply: Not reported
Loc Soil: Yes
Resources Water Well: Not reported
Res Actual Drinking WW: Not reported
Res Non-Drink WW: Not reported
Res Public Water Supply: Not reported
Res Ground Water: Not reported
Res Surface Water: Not reported
Res Toxic Vapor: Not reported

US EPA ARCHIVE DOCUMENT

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Not reported
Officials Onsite Other:	Not reported
Officials Onsite Unknown:	Yes
AST:	Not reported
UST:	Not reported
Delete:	No
LUST Memo:	Not reported
Bedrock:	
Bedrock Category:	Not reported
WS Sample:	No
GIS Survey:	No
UST:	
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	W. C. STOKES
Owner Address:	2111 SKYLINE DR WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198608387
Date Owner Signed:	5/6/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported

Map ID
 Direction
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 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	STOKES
Contact First Name:	W.C.
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 232-6591
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WIECK
Installers First Name:	WIECK
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	001
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	10/20/92 0:00:00
Date Removed:	10/20/92 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	10000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartment:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Guaging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	W. C. STOKES
Owner Address:	2111 SKYLINE DR WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198608387
Date Owner Signed:	5/6/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	STOKES
Contact First Name:	W.C.
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 232-6591
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WIECK
Installers First Name:	WIECK
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	002
Currently In Use: No	Temp Closed Date: 7/1/84 0:00:00
Site Install Date: 10/20/92 0:00:00	Date Removed: 10/20/92 0:00:00
Filled Inert: Not reported	Date Filled in Place : Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	6000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported

Map ID
 Direction
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 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	W. C. STOKES
Owner Address:	2111 SKYLINE DR WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198608387
Date Owner Signed:	5/6/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	STOKES
Contact First Name:	W.C.
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 232-6591
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WIECK
Installers First Name:	WIECK
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	003
Currently In Use:	No
Date Install Date:	10/20/92 0:00:00
Filled Inert:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	6000
Temp Closed Date:	Not reported
Date Removed:	10/20/92 0:00:00
Date Filled in Place :	Not reported

Map ID
 Direction
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 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported

Map ID
 Direction
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 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
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STOKES MART (Continued)

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PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Gasoline
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	W. C. STOKES
Owner Address:	2111 SKYLINE DR WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198608387
Date Owner Signed:	5/6/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
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STOKES MART (Continued)

U003171185

Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	STOKES
Contact First Name:	W.C.
Contact Middle Initial:	Not reported
Contact Title:	Not reported
Contact Tele:	(319) 232-6591
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WIECK
Installers First Name:	WIECK
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	004
Currently In Use:	No
Site Install Date:	10/20/92 0:00:00
Filled Inert:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	3000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0

US EPA ARCHIVE DOCUMENT

Map ID
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 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
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STOKES MART (Continued).

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Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overflow Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Diesel
Site Status:	Regulated Tanks R/F
County:	07
Region:	1
Facility Tel:	Not reported
Extension:	Not reported
Owner Name:	W. C. STOKES
Owner Address:	2111 SKYLINE DR WATERLOO, IA 50701
Owner Tel:	(000) 000-0000
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Private
Facility Id:	198608387
Date Owner Signed:	5/6/86 0:00:00
Multiple Owners:	0
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Person Tel:	(000) 000-0000
Extension:	Not reported
Authorized Name:	Not reported
Authorized Address:	00000
Auth. Fax:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Contact Last Name:	STOKES
Contact First Name:	W.C.
Contact Middle Initial:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

STOKES MART (Continued)

U003171185

Contact Title:	Not reported
Contact Tele:	(319) 232-6591
Extension:	Not reported
Contact Fax:	Not reported
Installers Last Name:	WIECK
Installers First Name:	WIECK
Installers Middle Init:	Not reported
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	6
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	000
Tank Number:	005
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	10/21/92 0:00:00
Date Removed:	10/21/92 0:00:00
Filled Inert:	Not reported
Date Filled in Place :	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Commercial
Capacity:	1000
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Compartment 2 Contents:	Not reported
Compartment 2 Case:	Not reported
Compartment 2 Capacity:	0
Compartment 3 Contents:	Not reported
Compartment 3 Case:	Not reported
Compartment 3 Capacity:	0
Compartment 4 Contents:	Not reported
Compartment 4 Case:	Not reported
Compartment 4 Capacity:	0
Compartment 5 Contents:	Not reported
Compartment 5 Case:	Not reported
Compartment 5 Capacity:	0
Compartment 6 Contents:	Not reported
Compartment 6 Case:	Not reported
Compartment 6 Capacity:	0
Tank Material and Construction:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Asphaltic:	Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

STOKES MART (Continued)

U003171185

TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Auto-Gauging:	Not reported
LDS Interstitial Containments:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Gauging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Not reported
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Cathodic Protection:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Secondary Barrier:	Not reported
PLD Safe Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

STOKES MART (Continued)

U003171185

Manufacturer Checklist Completed:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Tank Contents:	Used Oil

The IA UST database contains 1 additional record for this site.
Please click here or contact your EDR Account Executive for more information.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WATERLOO	1005429501	FREESE AG SERVICE	729 W AIRLINE HWY	50703	SSTS
WATERLOO	1006946945	FREESE AG SERVICE	729 AIRLINE HWY	50703	FTTS INSP
WATERLOO	S106058919	YOUNG ICE ARENA PARKING LOT	SE CORNER COMMERCIAL/W MULLAN		LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA
Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/21/03
Date Made Active at EDR: 12/08/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/03/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 02/06/04

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA
Telephone: N/A

Date of Government Version: 10/14/03
Date Made Active at EDR: 12/08/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 02/06/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA
Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/17/03
Date Made Active at EDR: 02/02/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/03
Elapsed ASTM days: 42
Date of Last EDR Contact: 12/22/03

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA
Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/17/03
Date Made Active at EDR: 02/02/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/03
Elapsed ASTM days: 42
Date of Last EDR Contact: 12/22/03

CORRACTS: Corrective Action Report

Source: EPA
Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/03
Date Made Active at EDR: 02/02/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/26/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/08/03

RCRIS: Resource Conservation and Recovery Information System

Source: EPA
Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/12/04
Date Made Active at EDR: 02/10/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 01/19/04
Elapsed ASTM days: 22
Date of Last EDR Contact: 01/19/04

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/02
Date Made Active at EDR: 02/03/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 01/26/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS
Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices
Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/09/03

Database Release Frequency: Annually

Date of Last EDR Contact: 01/06/04

Date of Next Scheduled EDR Contact: 04/05/04

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/21/03

Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/06/04

Date of Next Scheduled EDR Contact: 05/01/04

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/03

Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/04

Date of Next Scheduled EDR Contact: 04/05/04

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/18/03

Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/04

Date of Next Scheduled EDR Contact: 04/19/04

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/16/03

Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/06/04

Date of Next Scheduled EDR Contact: 04/05/04

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 11/25/03

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03

Date of Next Scheduled EDR Contact: 03/29/04

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/30/03
Database Release Frequency: Annually

Date of Last EDR Contact: 02/09/04
Date of Next Scheduled EDR Contact: 05/10/04

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-648-5920

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/02/04
Date of Next Scheduled EDR Contact: 05/10/04

STORMWATER: Storm Water General Permits

Source: Environmental Protection Agency
Telephone: 202 564-0746

A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A
Database Release Frequency: Quarterly

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/15/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/17/03
Date of Next Scheduled EDR Contact: 03/15/04

RMP: Risk Management Plans

Source: Environmental Protection Agency
Telephone: 202-564-8600

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Database Release Frequency: N/A

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-566-0250

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA
Telephone: 202-564-2501

Date of Government Version: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

SSTS: Section 7 Tracking Systems

Source: EPA
Telephone: 202-564-5008

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 01/19/04
Date of Next Scheduled EDR Contact: 04/19/04

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

STATE OF IOWA ASTM STANDARD RECORDS

SHWS: Registry of Hazardous Waste or Hazardous Substance Disposal Sites

Source: Department of Natural Resources
Telephone: 515-281-8801

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 12/31/02
Date Made Active at EDR: 04/02/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 02/24/03
Elapsed ASTM days: 37
Date of Last EDR Contact: 11/17/03

SWF/LF: Permitted Solid Waste Management Facilities

Source: Department of Natural Resources
Telephone: 515-281-8801

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/30/03
Date Made Active at EDR: 01/27/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/06/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 01/06/04

LUST: Leaking Underground Storage Tank Data

Source: Department of Natural Resources
Telephone: 515-281-6001

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/06/03
Date Made Active at EDR: 12/24/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/18/03
Elapsed ASTM days: 36
Date of Last EDR Contact: 01/06/04

UST: Underground Storage Tank Data

Source: Department of Natural Resources
Telephone: 515-281-6001

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/06/03
Date Made Active at EDR: 12/23/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/18/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 01/06/04

INDIAN UST: Underground Storage Tanks on Indian Land

Source: EPA Region 7
Telephone: 913-551-7003

Date of Government Version: 09/02/03
Date Made Active at EDR: 10/07/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 09/16/03
Elapsed ASTM days: 21
Date of Last EDR Contact: 11/24/03

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Land Recycling Program Sites

Source: Department of Natural Resources
Telephone: 515-242-5818
Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 11/26/03
Date Made Active at EDR: 12/24/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 11/26/03
Elapsed ASTM days: 28
Date of Last EDR Contact: 02/16/04

STATE OF IOWA ASTM SUPPLEMENTAL RECORDS

SPILLS: Spills Database

Source: Department of Natural Resources
Telephone: 515-281-4367

Date of Government Version: 01/04/04
Database Release Frequency: Annually

Date of Last EDR Contact: 01/07/04
Date of Next Scheduled EDR Contact: 04/05/04

AST: Aboveground Storage Tank Sites

Source: Department of Public Safety
Telephone: 515-281-5821

Bulk fuel facilities, commercial fuel operations, private farm sites, and any other storage facility that meets the Department of Public Safety's registration criteria. They register any class I, II or III petroleum product (gas, diesel and oil) above 1,100 gallons.

Date of Government Version: 10/21/03
Database Release Frequency: Varies

Date of Last EDR Contact: 01/20/04
Date of Next Scheduled EDR Contact: 04/19/04

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

BROWNFIELDS DATABASES

VCP: Land Recycling Program Sites

Source: Department of Natural Resources
Telephone: 515-242-5818
Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 11/26/03
Database Release Frequency: Varies

Date of Last EDR Contact: 02/16/04
Date of Next Scheduled EDR Contact: 05/17/04

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facilities

Source: Department of Human Services
Telephone: 515-281-4357

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CHAMBERLAIN MANUFACTURING CORPORATION
550 ESTHER STREET
WATERLOO, IA 50703

TARGET PROPERTY COORDINATES

Latitude (North):	42.521301 - 42° 31' 16.7"
Longitude (West):	92.332397 - 92° 19' 56.6"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	554837.1
UTM Y (Meters):	4707660.0
Elevation:	870 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

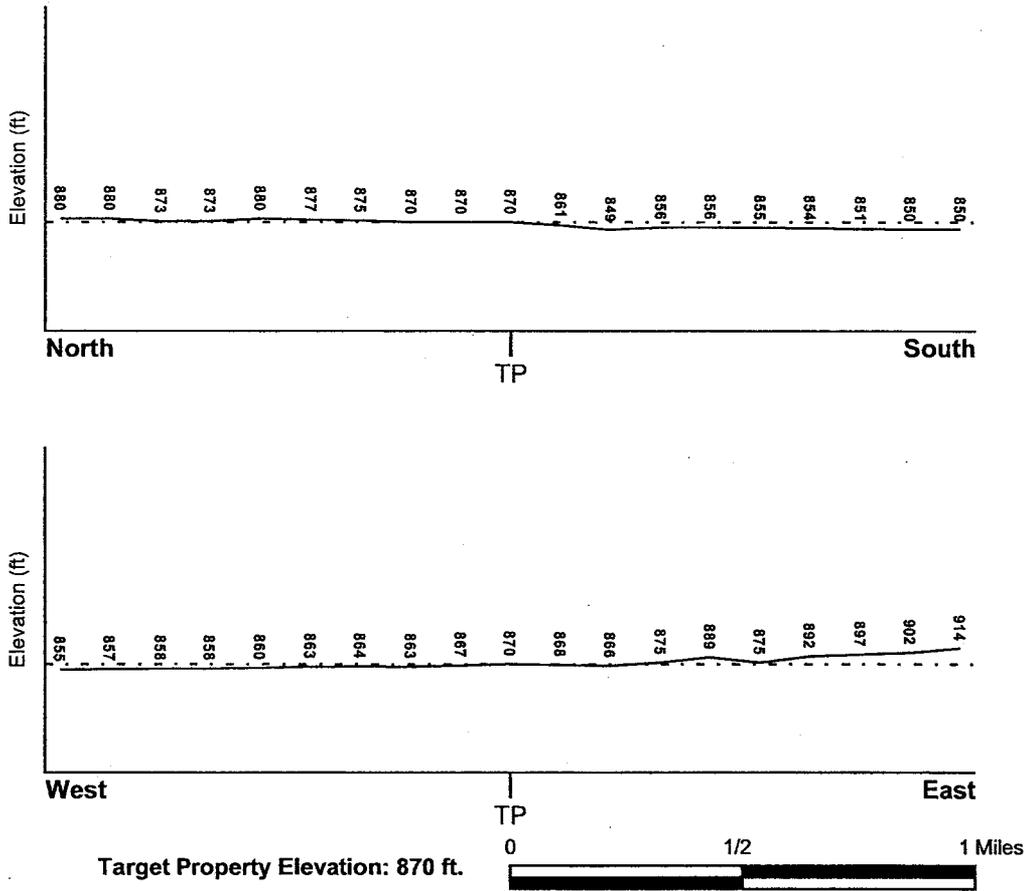
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map: 42092-E3 WATERLOO NORTH, IA
 General Topographic Gradient: General SSW
 Source: USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> BLACK HAWK, IA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
---	--

Flood Plain Panel at Target Property: 1900250004E

Additional Panels in search area: 1900250005E
1905350060B
1900250008E

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> WATERLOO NORTH	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
--	--

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Devonian
Series: Middle Devonian
Code: D2 (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: SPILLVILLE

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	54 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
2	54 inches	60 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 6.00 Min: 0.60	Max: 7.30 Min: 5.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: clay loam
sandy loam

Surficial Soil Types: clay loam
sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: coarse sand
loamy sand
gravelly - sand
loam
gravelly - loamy sand
gravelly - coarse sand

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
B6	USGS0265727	1/4 - 1/2 Mile NNE
8	USGS0265726	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

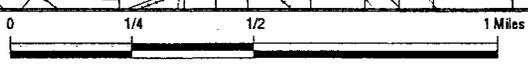
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	U13898	1/8 - 1/4 Mile ESE
A2	U11103	1/8 - 1/4 Mile ESE
A3	U11102	1/8 - 1/4 Mile ESE
A4	U4563	1/8 - 1/4 Mile ESE
A5	U4564	1/8 - 1/4 Mile ESE
B7	M74	1/4 - 1/2 Mile NNE
C9	U7321	1/2 - 1 Mile West
C10	U7320	1/2 - 1 Mile West
C11	U7319	1/2 - 1 Mile West
C12	U2464	1/2 - 1 Mile West
C13	U2465	1/2 - 1 Mile West
C14	U2466	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 1133124.3s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



TARGET PROPERTY:	Chamberlain Manufacturing Corporation	CUSTOMER:	Howard R. Green Company
ADDRESS:	550 Esther Street	CONTACT:	Melissa Edsall
CITY/STATE/ZIP:	Waterloo IA 50703	INQUIRY #:	1133124.3s
LAT/LONG:	42.5213 / 92.3324	DATE:	February 23, 2004 7:14 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1

ESE

1/8 - 1/4 Mile

Higher

IA WELLS U13898

Facility Permit Num: 6,955
Facility Log Num: 15775
Source County Num: 7
Source Township: 89
Source Type: Well

Depth to Prim Aquifer in Feet: 140
Preceding Log Num: Not Reported
Source Section: 13
Source Range: 13

A2

ESE

1/8 - 1/4 Mile

Higher

IA WELLS U11103

Facility Permit Num: 4,982
Facility Log Num: 15086
Source County Num: 7
Source Township: 89
Source Type: Well

Depth to Prim Aquifer in Feet: 250
Preceding Log Num: 10449
Source Section: 13
Source Range: 13

A3

ESE

1/8 - 1/4 Mile

Higher

IA WELLS U11102

Facility Permit Num: 4,982
Facility Log Num: 10449
Source County Num: 7
Source Township: 89
Source Type: Well

Depth to Prim Aquifer in Feet: 250
Preceding Log Num: Not Reported
Source Section: 13
Source Range: 13

A4

ESE

1/8 - 1/4 Mile

Higher

IA WELLS U4563

Facility Permit Num: 1,518
Facility Log Num: 10833
Source County Num: 7
Source Township: 89
Source Type: Well

Depth to Prim Aquifer in Feet: 85
Preceding Log Num: 6,234
Source Section: 13
Source Range: 13

A5

ESE

1/8 - 1/4 Mile

Higher

IA WELLS U4564

Facility Permit Num: 1,518
Facility Log Num: 15411
Source County Num: 7
Source Township: 89
Source Type: Well

Depth to Prim Aquifer in Feet: 225
Preceding Log Num: 10833
Source Section: 13
Source Range: 13

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

B6
NNE
1/4 - 1/2 Mile
Higher
FED USGS USGS0265727

Agency:	USGS	Site ID:	423131092195201
Site Name:	Waterloo 22		
Dec. Latitude:	42.52526		
Dec. Longitude:	-92.3313		
Coord Sys:	NAD83		
State:	IA		
County:	Black Hawk County		
Altitude:	871.74		
Hydrologic code:	07080205		
Topographic:	Valley flat		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	19980225
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	340DVNN		
Aquifer type:	Not Reported		
Well depth:	151		
Hole depth:	151	Source:	owner
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 6

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1999-02-25	30		1998-12-29	32	
1998-10-27	30		1998-08-25	24	
1998-06-25	28		1998-04-27	23	

B7
NNE
1/4 - 1/2 Mile
Higher
IA WELLS M74

Permit Number:	1,518	Pub Water Supply Name:	WATERLOO
Depth in Feet:	151	Well or Intake Name/Num:	WELL 22
Type:	Devonian Well		

8
East
1/2 - 1 Mile
Higher
FED USGS USGS0265726

Agency:	USGS	Site ID:	423119092190501
Site Name:	089N13W13ADA 17208		
Dec. Latitude:	42.52193		
Dec. Longitude:	-92.31824		
Coord Sys:	NAD83		
State:	IA		
County:	Black Hawk County		
Altitude:	858.00		
Hydrologic code:	07080205		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	1964	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary Aquifer:	Not Reported	Source:	Not Reported
Aquifer type:	Not Reported		
Well depth:	100		
Hole depth:	100		
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1964-01-01	27.00	

C9
West **IA WELLS** **U7321**
 1/2 - 1 Mile
 Lower

Facility Permit Num:	2,878	Depth to Prim Aquifer in Feet:	176
Facility Log Num:	16141	Preceding Log Num:	11830
Source County Num:	7	Source Section:	14
Source Township:	89	Source Range:	13
Source Type:	Well		

C10
West **IA WELLS** **U7320**
 1/2 - 1 Mile
 Lower

Facility Permit Num:	2,878	Depth to Prim Aquifer in Feet:	176
Facility Log Num:	11830	Preceding Log Num:	5,866
Source County Num:	7	Source Section:	14
Source Township:	89	Source Range:	13
Source Type:	Well		

C11
West **IA WELLS** **U7319**
 1/2 - 1 Mile
 Lower

Facility Permit Num:	2,878	Depth to Prim Aquifer in Feet:	176
Facility Log Num:	5,866	Preceding Log Num:	Not Reported
Source County Num:	7	Source Section:	14
Source Township:	89	Source Range:	13
Source Type:	Well		

C12
West **IA WELLS** **U2464**
 1/2 - 1 Mile
 Lower

Facility Permit Num:	673	Depth to Prim Aquifer in Feet:	Not Reported
Facility Log Num:	911	Preceding Log Num:	Not Reported
Source County Num:	7	Source Section:	14
Source Township:	89	Source Range:	13
Source Type:	Reservoir		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C13
West
1/2 - 1 Mile
Lower

IA WELLS U2465

Facility Permit Num: 673
Facility Log Num: 2,526
Source County Num: 7
Source Township: 89
Source Type: Reservoir

Depth to Prim Aquifer in Feet: Not Reported
Preceding Log Num: 911
Source Section: 14
Source Range: 13

C14
West
1/2 - 1 Mile
Lower

IA WELLS U2466

Facility Permit Num: 673
Facility Log Num: 6,826
Source County Num: 7
Source Township: 89
Source Type: Reservoir

Depth to Prim Aquifer in Feet: Not Reported
Preceding Log Num: 2,526
Source Section: 14
Source Range: 13

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: IA Radon

Radon Test Results

Zip	Min pCi/L	Max	Avg	# sites	# sites<4pCi/L	# sites>=4	# sites>=10	# sites>=20	# sites>=50	# sites>=100
50703	0	37	3.4	313	238	51	18	6	0	0

Federal EPA Radon Zone for BLACK HAWK County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 50703

Number of sites tested: 8

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.225 pCi/L	50%	50%	0%

US EPA ARCHIVE DOCUMENT

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Iowa Wells and Intakes for Public Water Supplies and Registered Private Wells since 1987

Source: Iowa Department of Natural Resources
Telephone: 319-335-1575

RADON

State Database: IA Radon

Source: Department of Public Health
Telephone: 515-281-4340
Radon Test Results

Area Radon Information

Source: USGS
Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

APPENDIX D

SELECT PHOTOGRAPHS FROM SITE VISIT

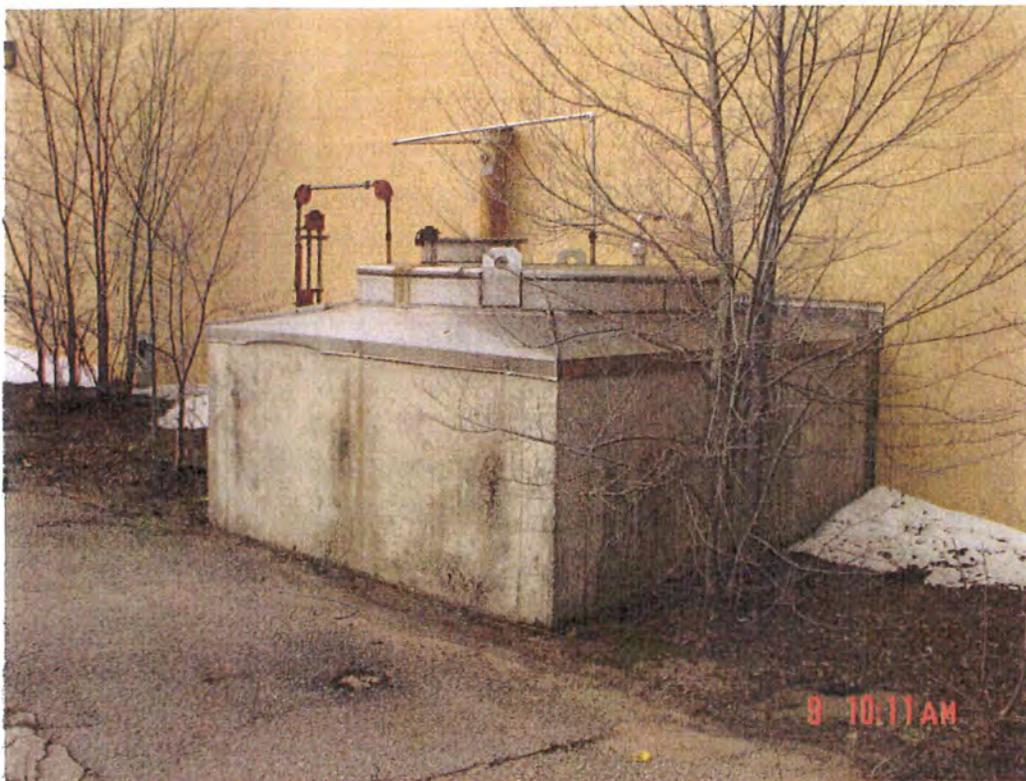


Photo 1 1,1,1 TCE tank along eastern wall of Building 21.



Photo 2 90 - day 55-gallon storage area located between Buildings 16 and 19.



Photo 3 Metallurgy Lab floor dry spill in storage closet in Building 10.



Photo 4 Heating/Storage Oil tanks located in northeastern corner of property.



Photo 5 Anodize process instructions in Building 10.

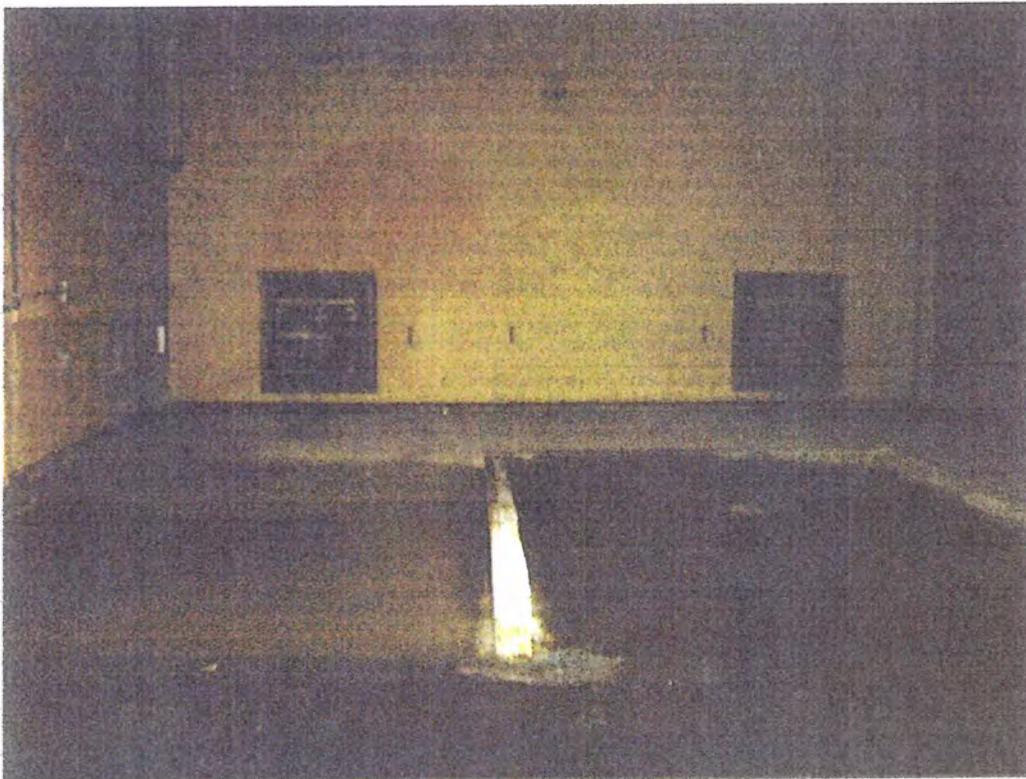


Photo 6 Waste treatment area in Building 11.



Photo 7 Area west of building 12; location of suspected sulfuric acid spill.

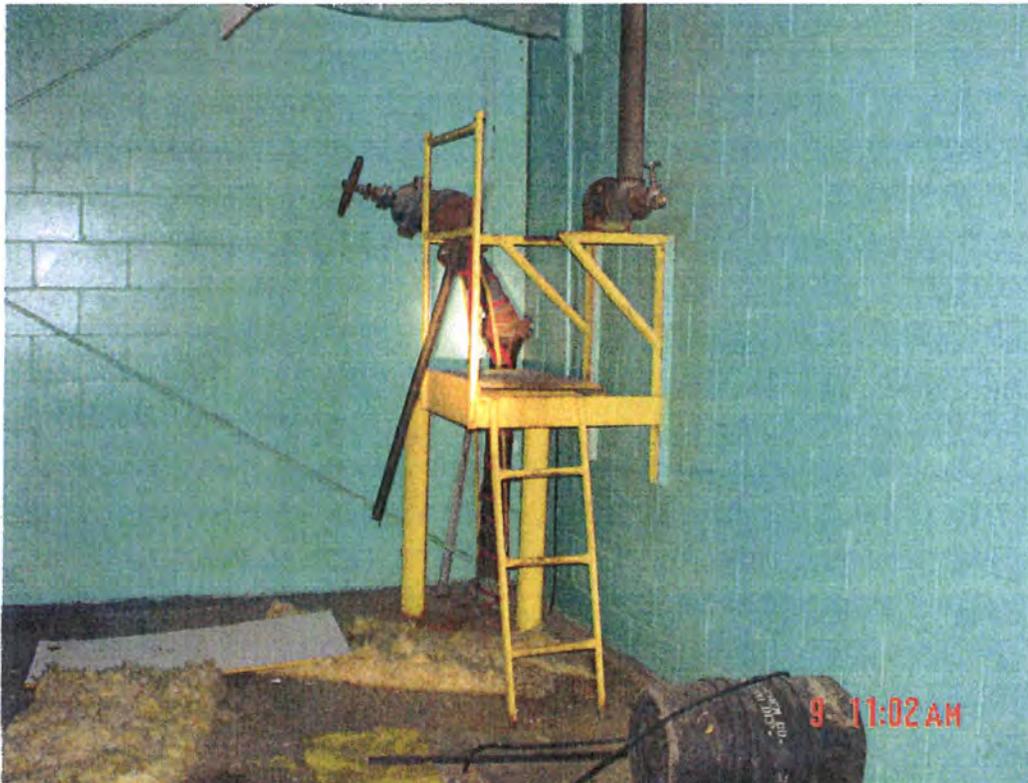


Photo 8 Barrel valves located in Building 12 "The Blue Room".

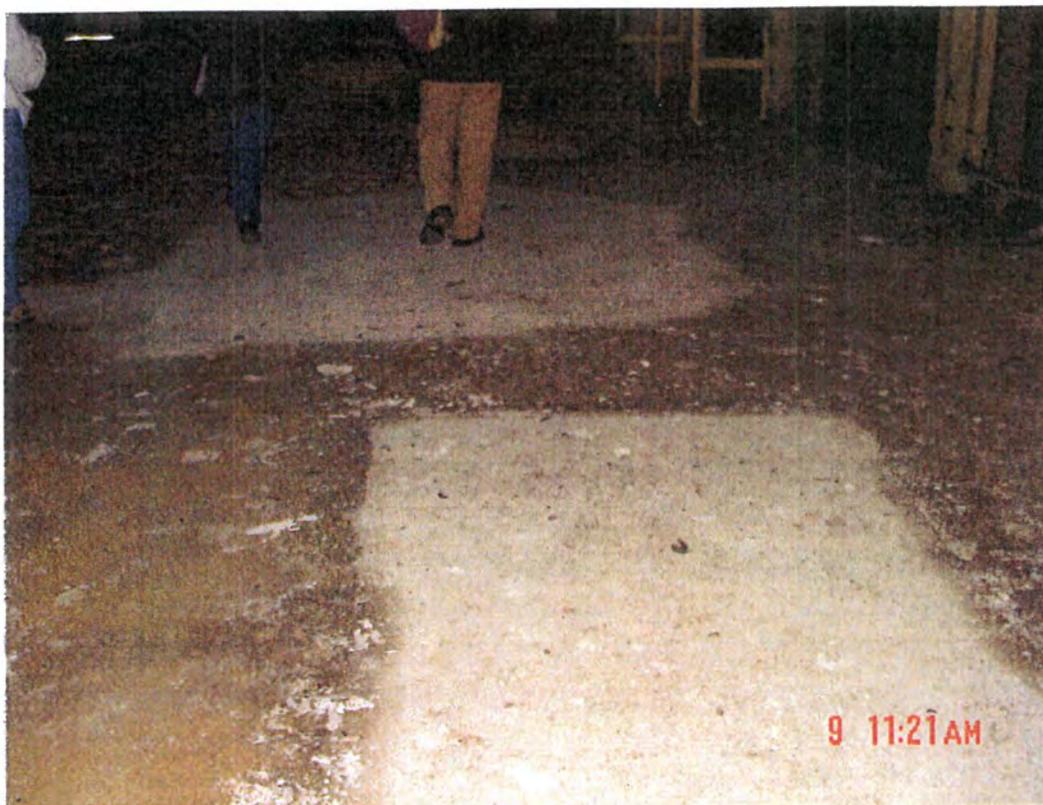


Photo 9 New concrete of filled press pits in Building 13.



Photo 10 55-gallon leaking barrels in Building 15.



Photo 11 Press Pit filled with ice in Building 15. Open 15-gallon barrels are frozen in the ice.



Photo 12 Paint room located in Building 15.



Photo 13 Sludge drying area in Building 15. A vent hood for the drying process is located at the top of the picture near the middle of the photograph.



Photo 14 Transformers located along outside wall of Building 15.



Photo 15 New concrete in floor of Building 17.



Photo 16 North floor drain located in Building 20.

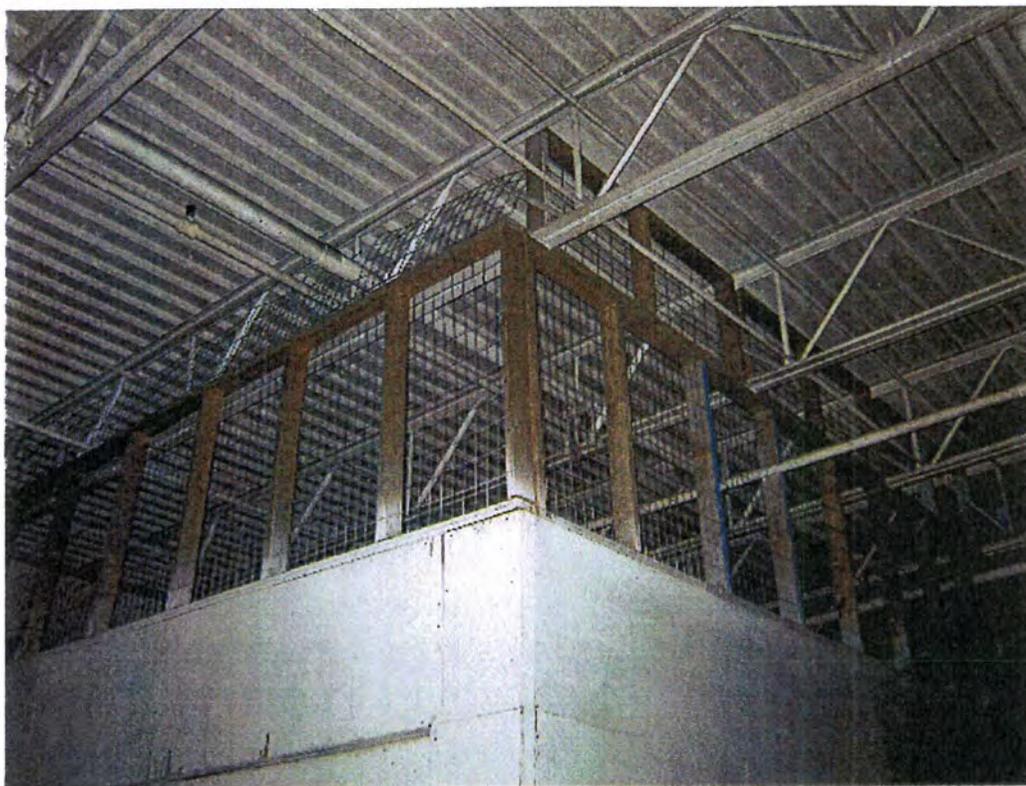


Photo 17 Restricted storage area in Building 21.



Photo 18 Mold in Research and Development Offices in Building 3.



Photo 19 Solvent storage area in Building 3.



Photo 20 Machine base located in Building 6.

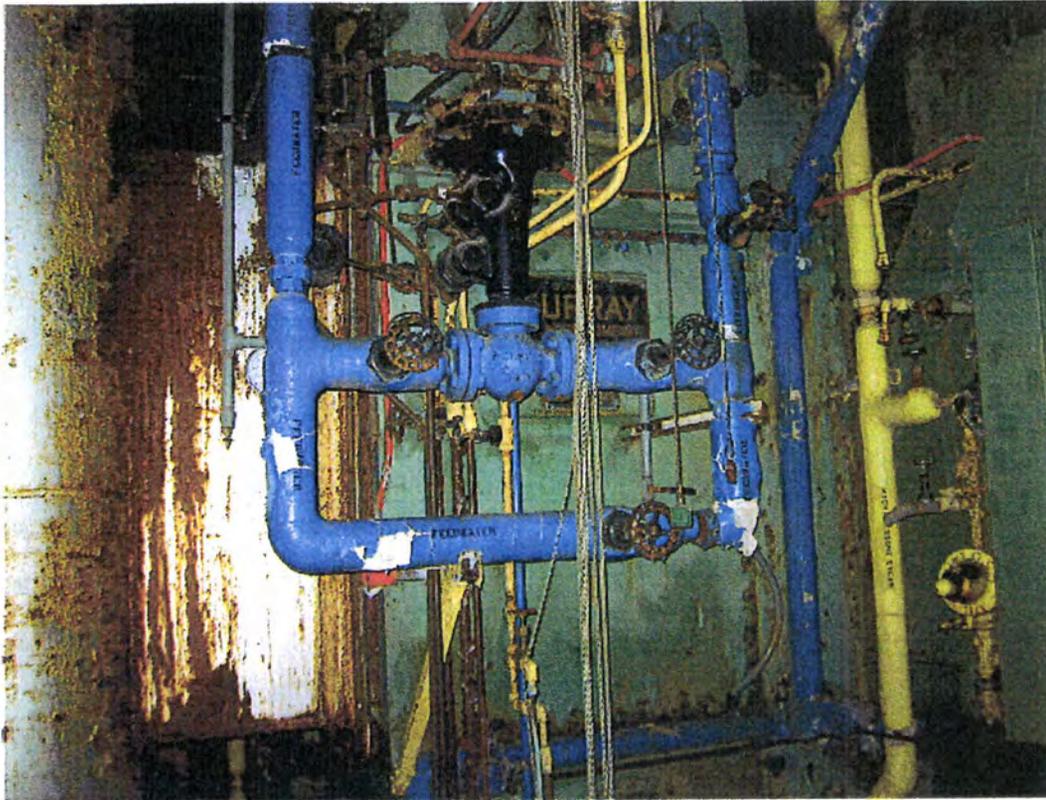


Photo 21 Boilers located in Building 9.

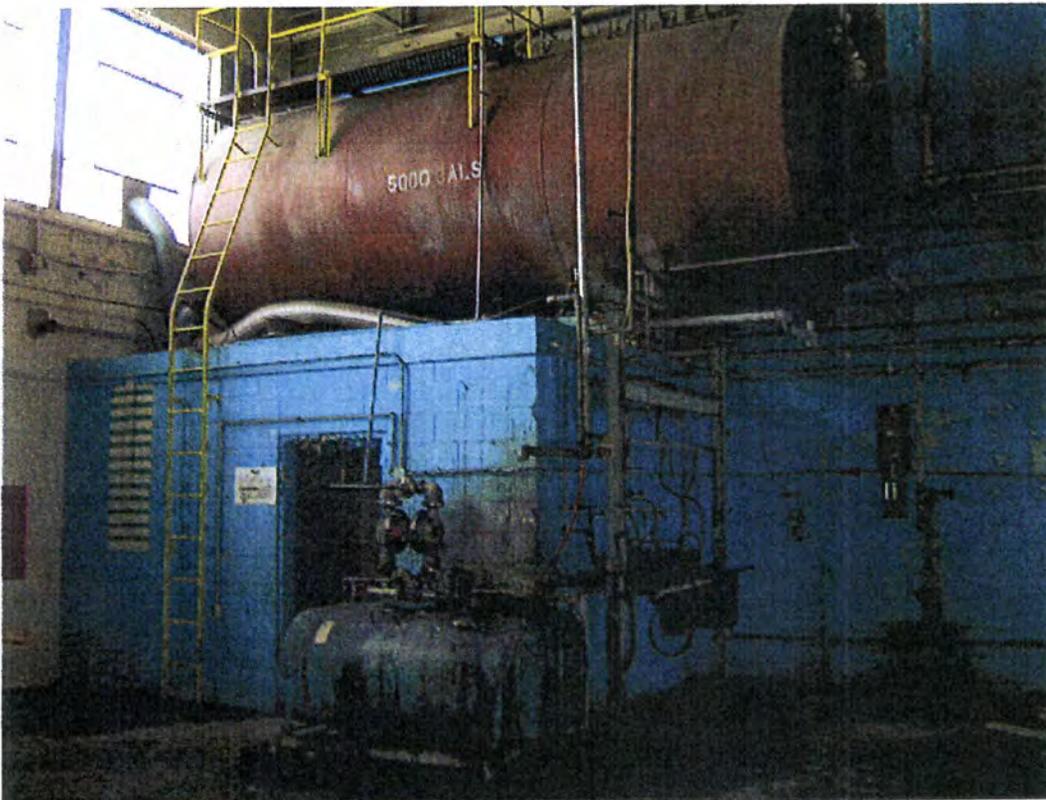


Photo 22 Condenser located in Building 9.

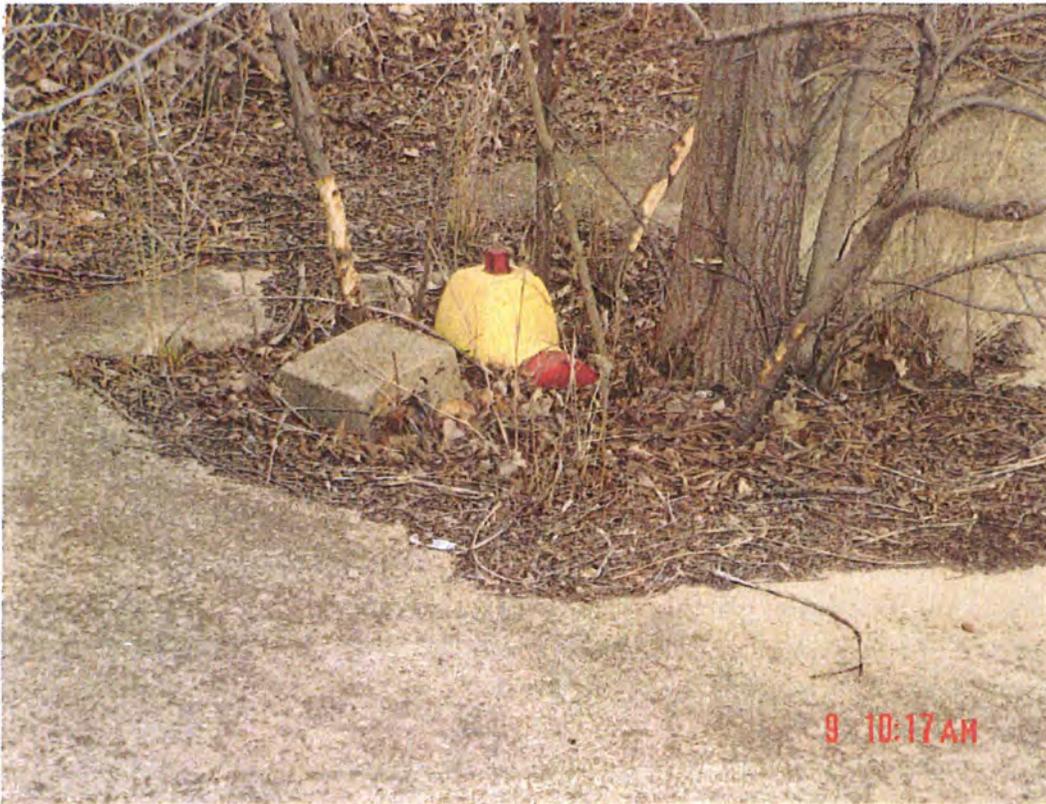


Photo 23 Sunken fire hydrant located near eastern property line.



Photo 24 Propane tank located near the southern property line.



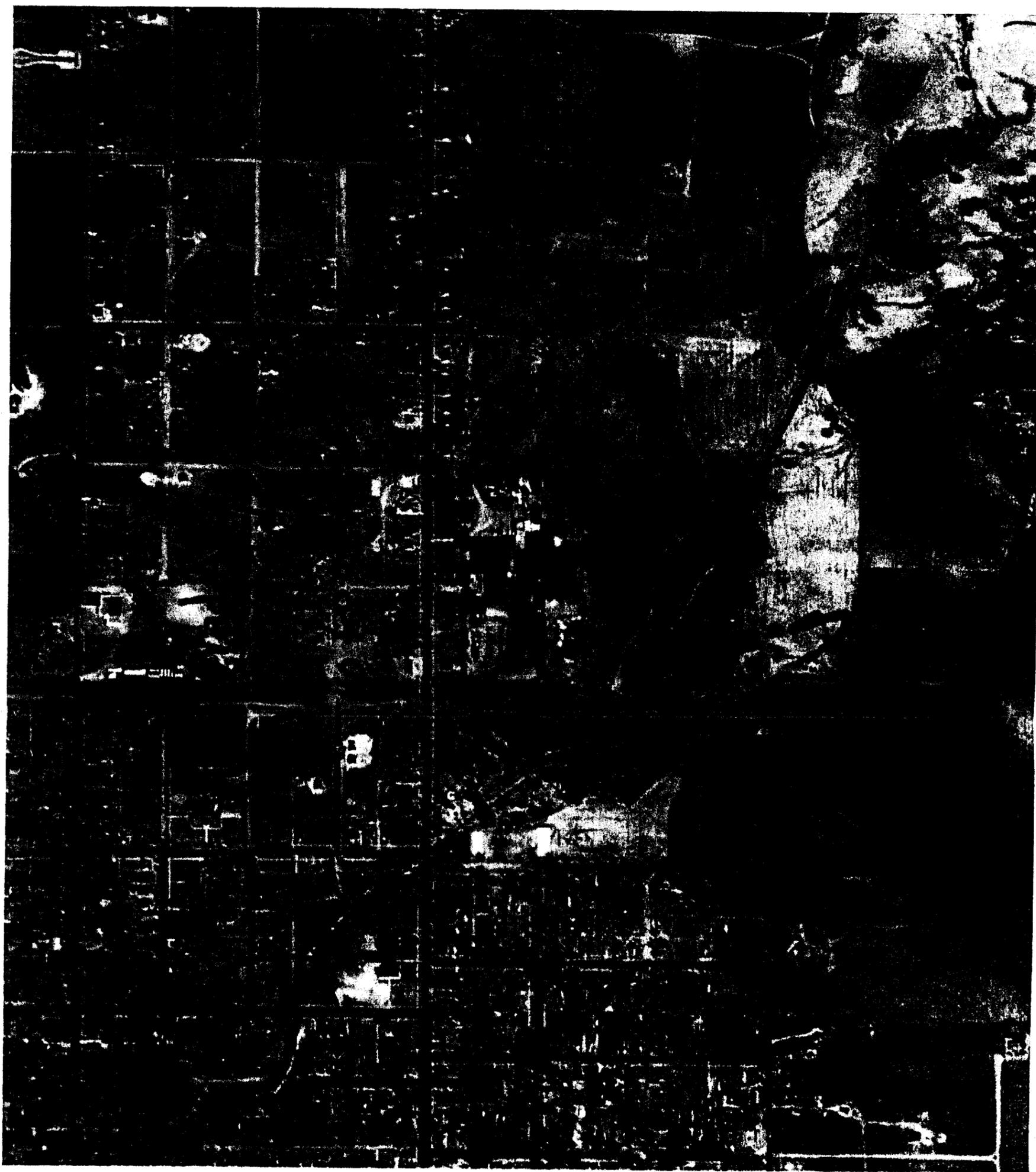
Photo 25 Oil/water separator at south outfall located near southeastern property line.



Photo 26 Hydraulic oil tanks located south of Building 17.

APPENDIX E

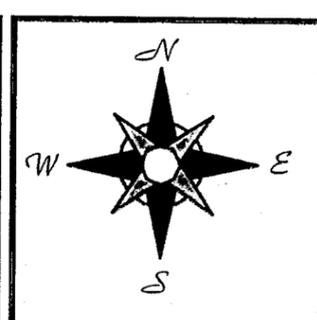
AERIAL PHOTOGRAPHS/HISTORICAL MAPS

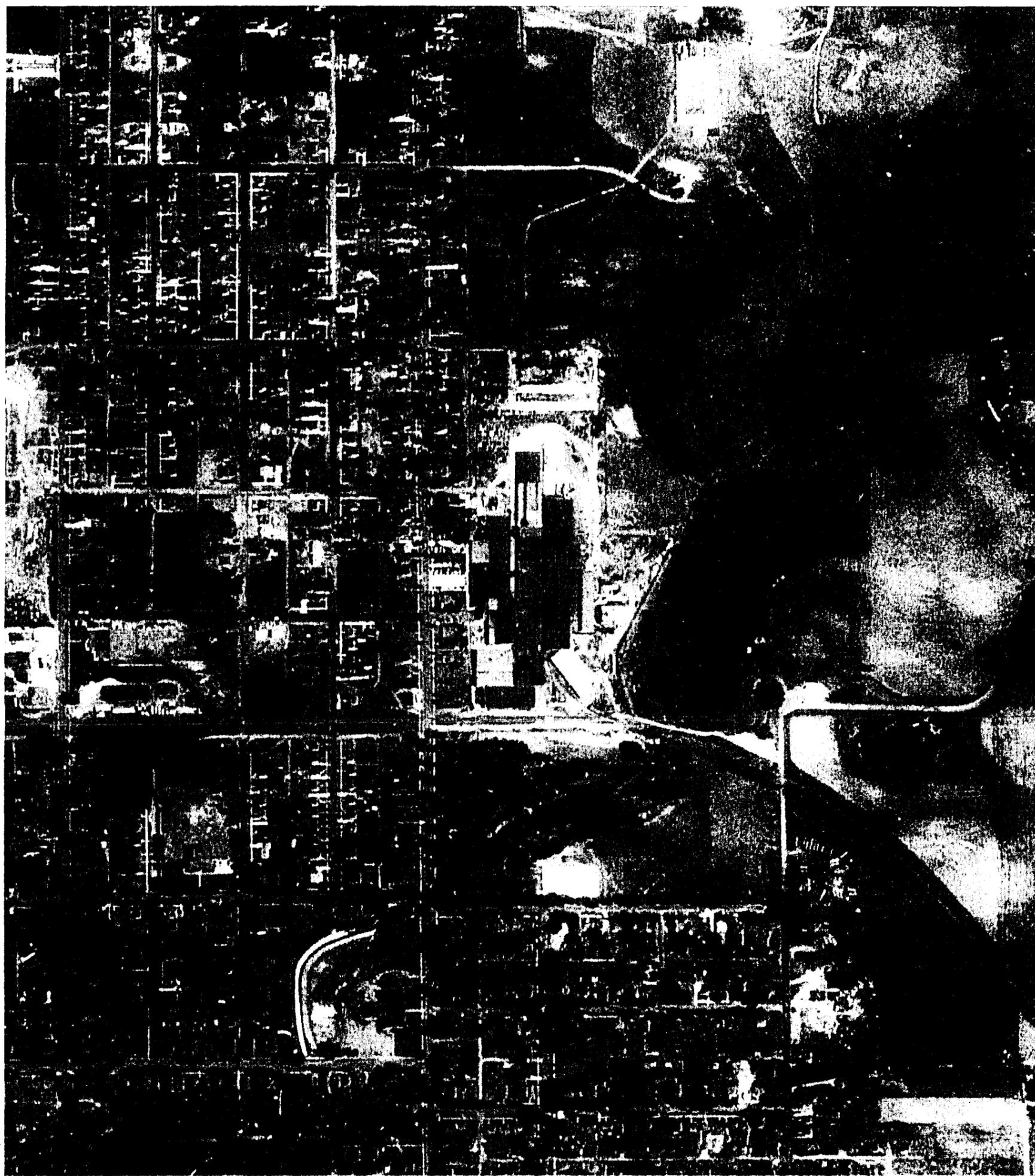


Historical
Information
Gatherers, Inc.

Chamberlain Site
550 Ester Street
Waterloo, Iowa

1941
HIG Project Number: MAE-1177
Client Project Number: 722930J23
Approximate Scale 1:6000 (1"=500')





Historical
Information
Gatherers, Inc.

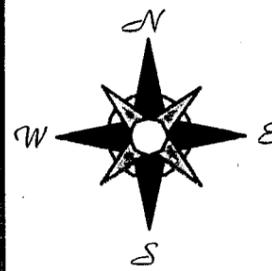
Chamberlain Site
550 Ester Street
Waterloo, Iowa

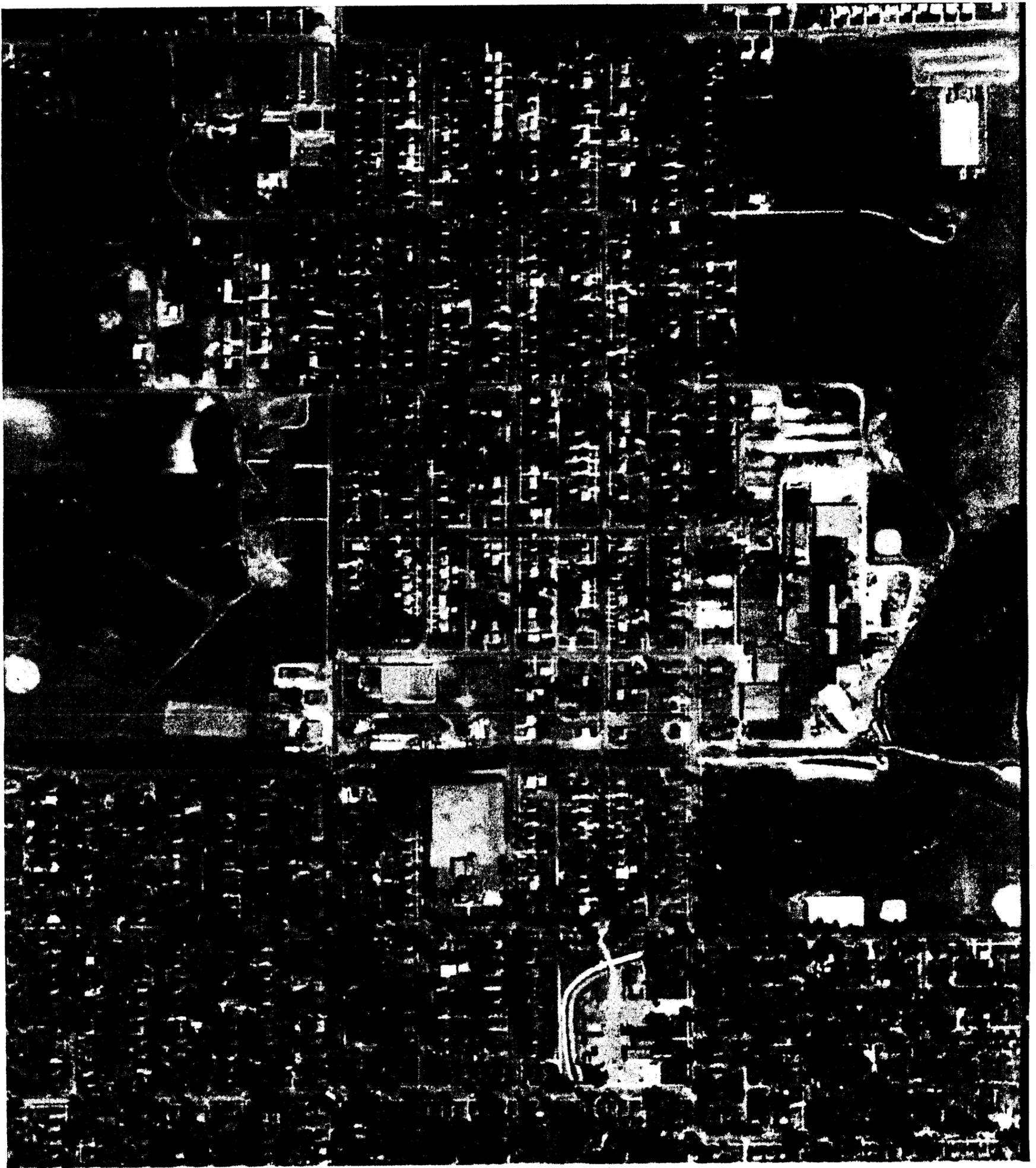
1952

HIG Project Number: MAE-1177

Client Project Number: 722930J23

Approximate Scale 1:6000 (1"=500')

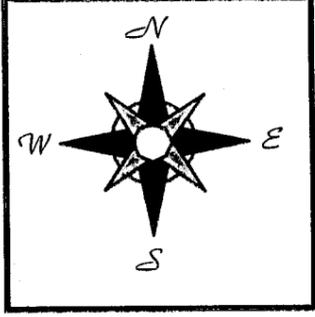


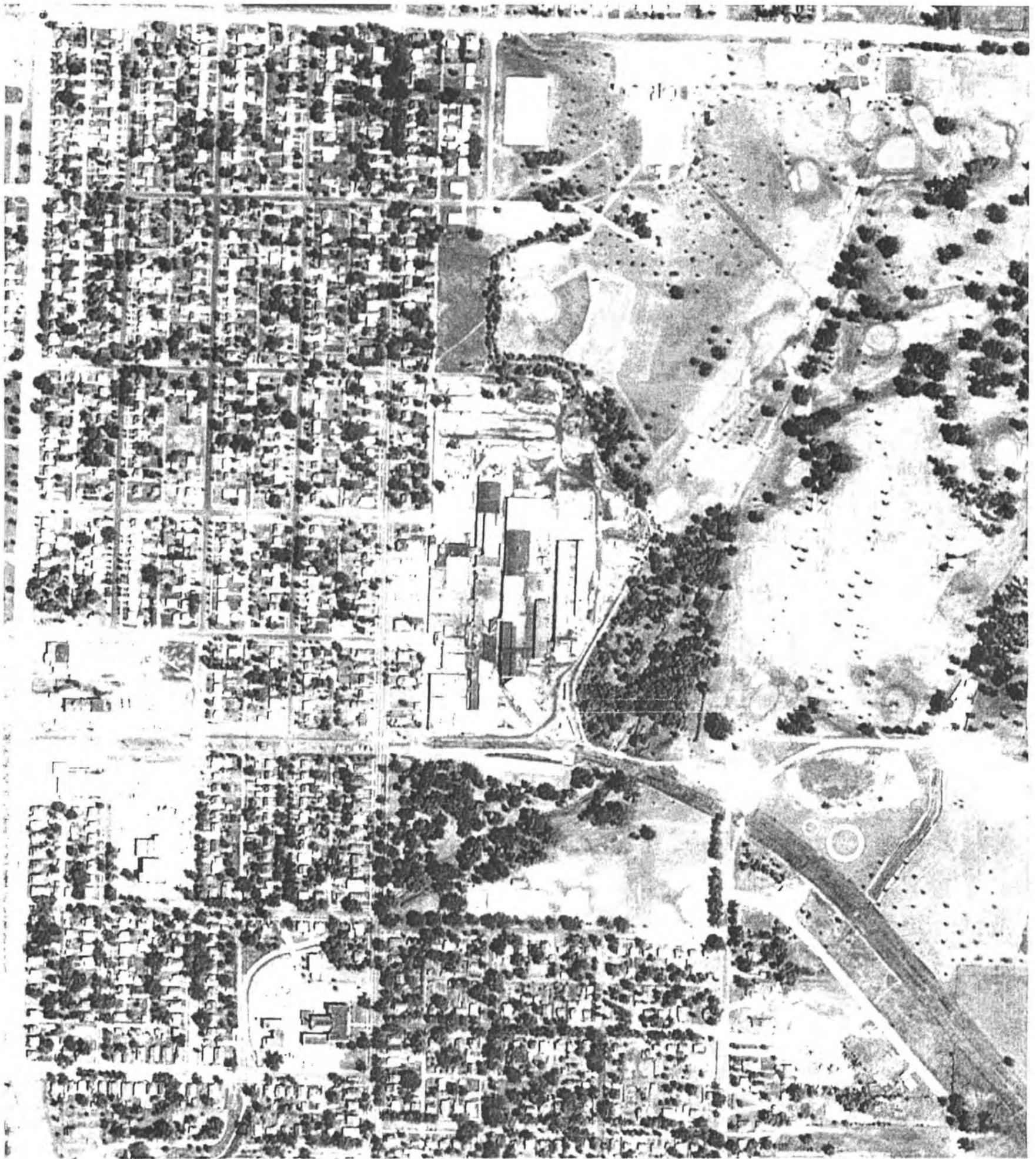


Historical
Information
Gatherers, Inc.

Chamberlain Site
550 Ester Street
Waterloo, Iowa

1957
HIG Project Number: MAE-1177
Client Project Number: 722930J23
Approximate Scale 1:6000 (1"=500')

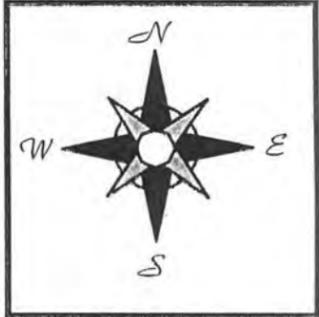




Historical
Information
Gatherers, Inc.

Chamberlain Site
550 Ester Street
Waterloo, Iowa

1964
HIG Project Number: MAE-1177
Client Project Number: 722930J23
Approximate Scale 1:6000 (1"=500')

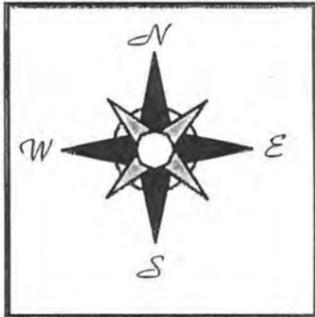


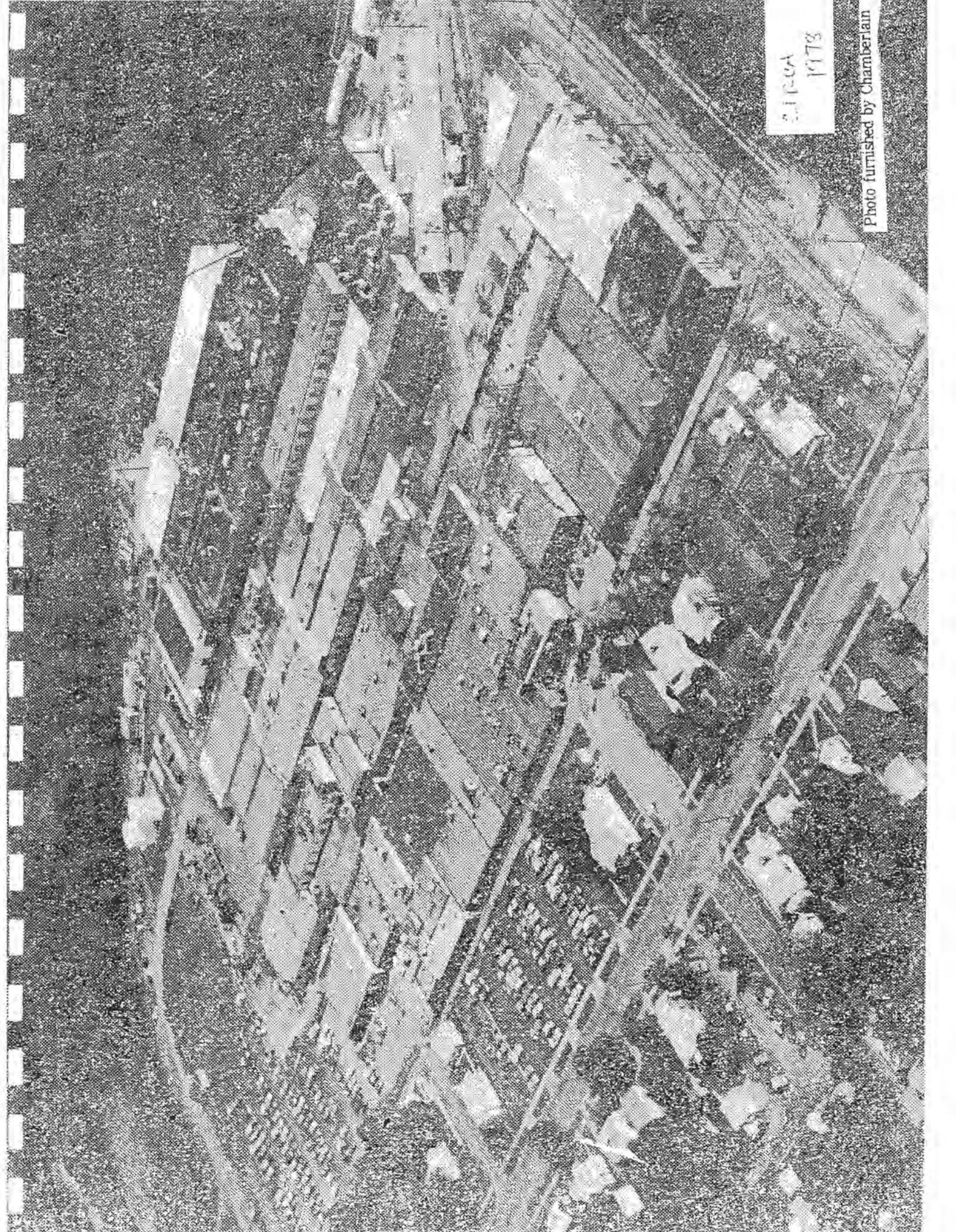


Historical
Information
Gatherers, Inc.

Chamberlain Site
550 Ester Street
Waterloo, Iowa

1970
HIG Project Number: MAE-1177
Client Project Number: 722930J23
Approximate Scale 1:6000 (1"=500')





2160A
1973

Photo furnished by Chamberlain



Historical
Information
Gatherers, Inc.

Chamberlain Site
550 Ester Street
Waterloo, Iowa

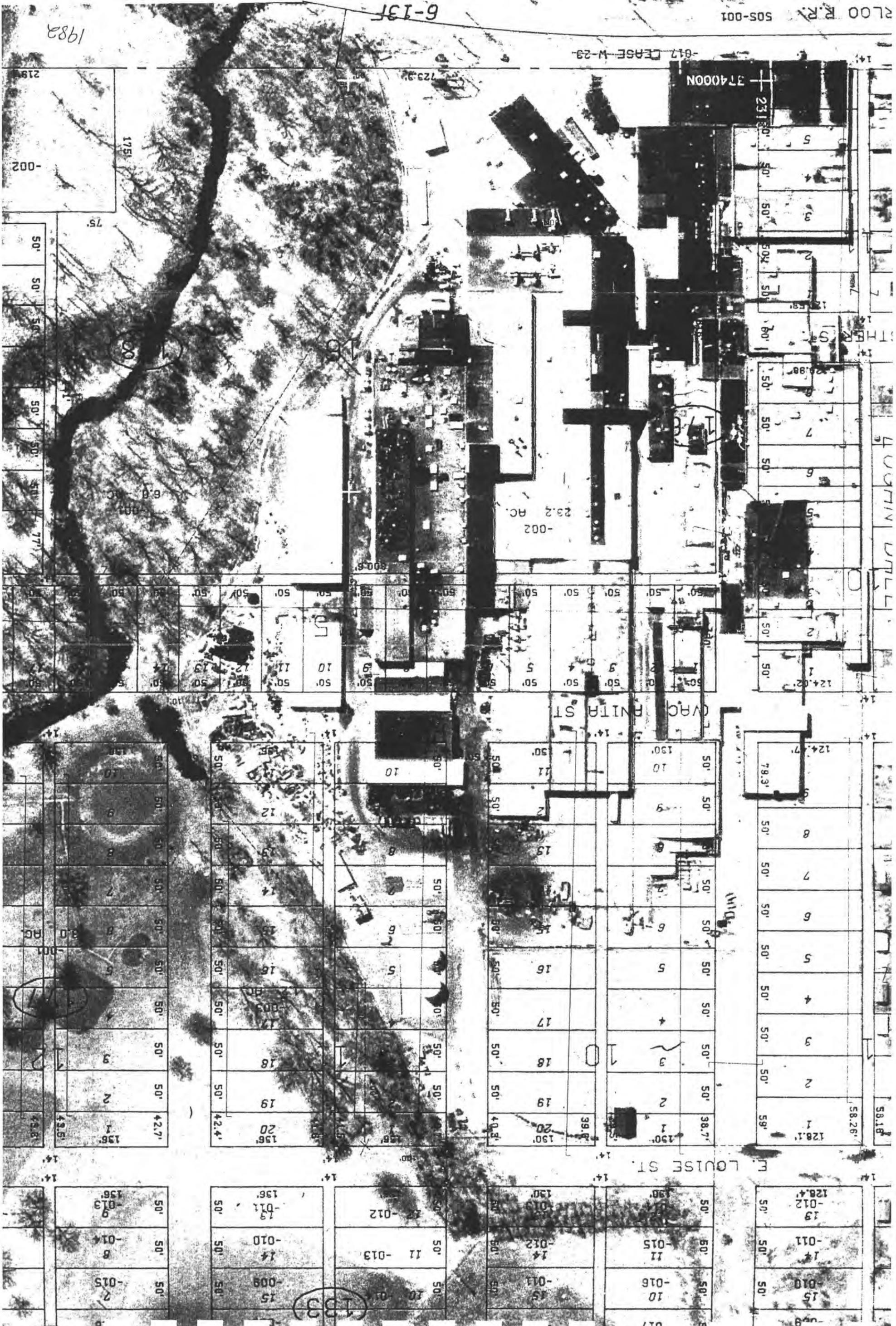
1979

HIG Project Number: MAE-1177

Client Project Number: 722930J23

Approximate Scale 1:6000 (1"=500')





2100 R.R. 505-001

-617 LEASE W-23

6-13F

374000N

219

175

75

6.8 AC.

23.2 AC.

600.6

124.02

124.7

79.3

58.18

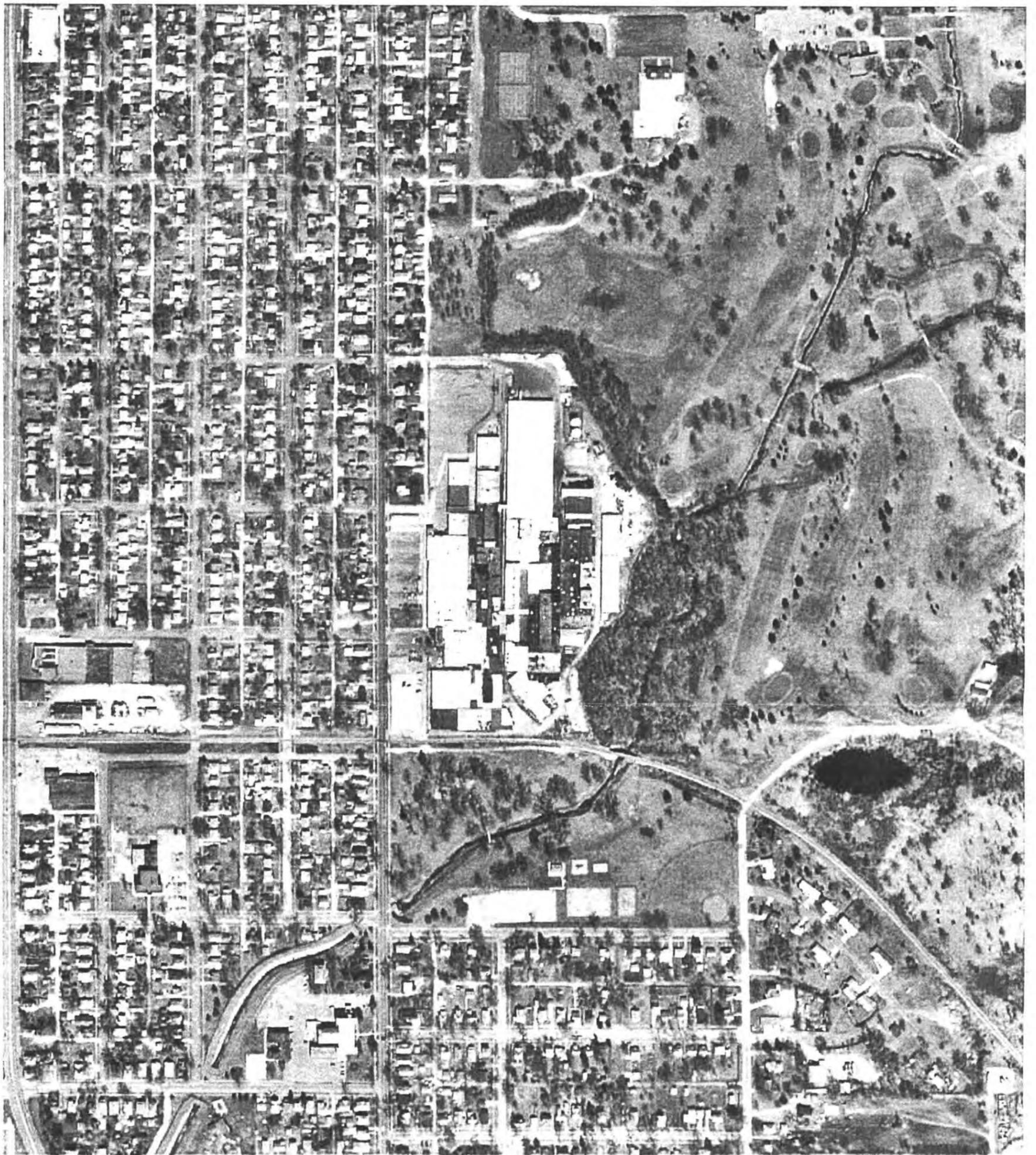
58.26

F LOUISE ST

WAC ENTER ST

LUGTIV DITLL

136



Historical
Information
Gatherers, Inc.

Chamberlain Site
550 Ester Street
Waterloo, Iowa

1994

HIG Project Number: MAE-1177

Client Project Number: 722930J23

Approximate Scale 1:6000 (1"=500')

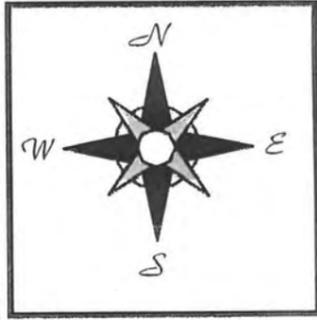




Historical
Information
Gatherers, Inc.

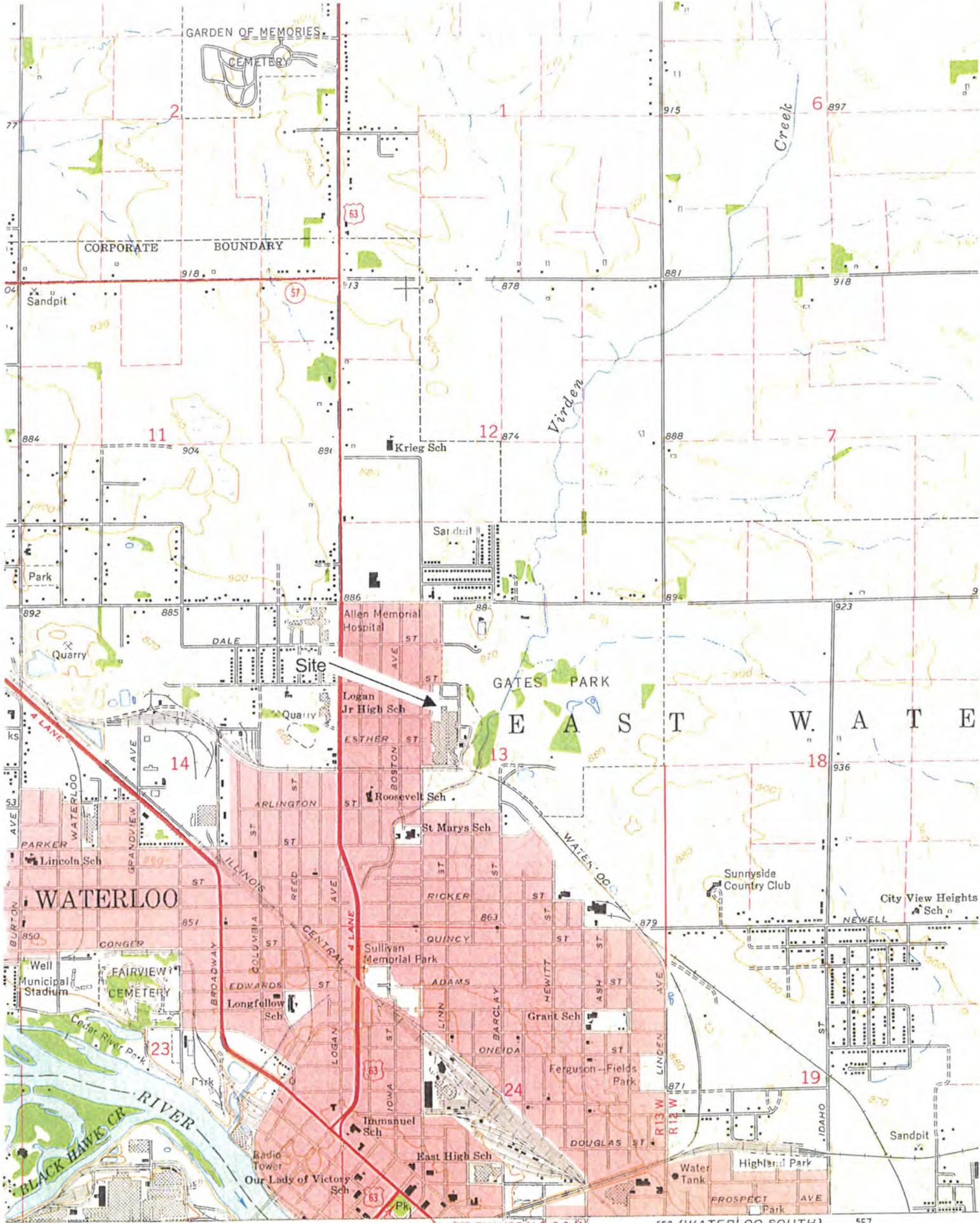
Chamberlain Site
550 Ester Street
Waterloo, Iowa

2002
HIG Project Number: MAE-1177
Client Project Number: 722930J23
Approximate Scale 1:6000 (1"=500')





C. 13, T89N, R13W BLACK HAWK COUNTY



2310000 FEET

WATERLOO (P.O.) 0.3 MI. TRAER 25 MI.

EVANSDALE 3.3 MI. INDEPENDENCE 23 MI.

556 (WATERLOO SOUTH) 7568 IV NE

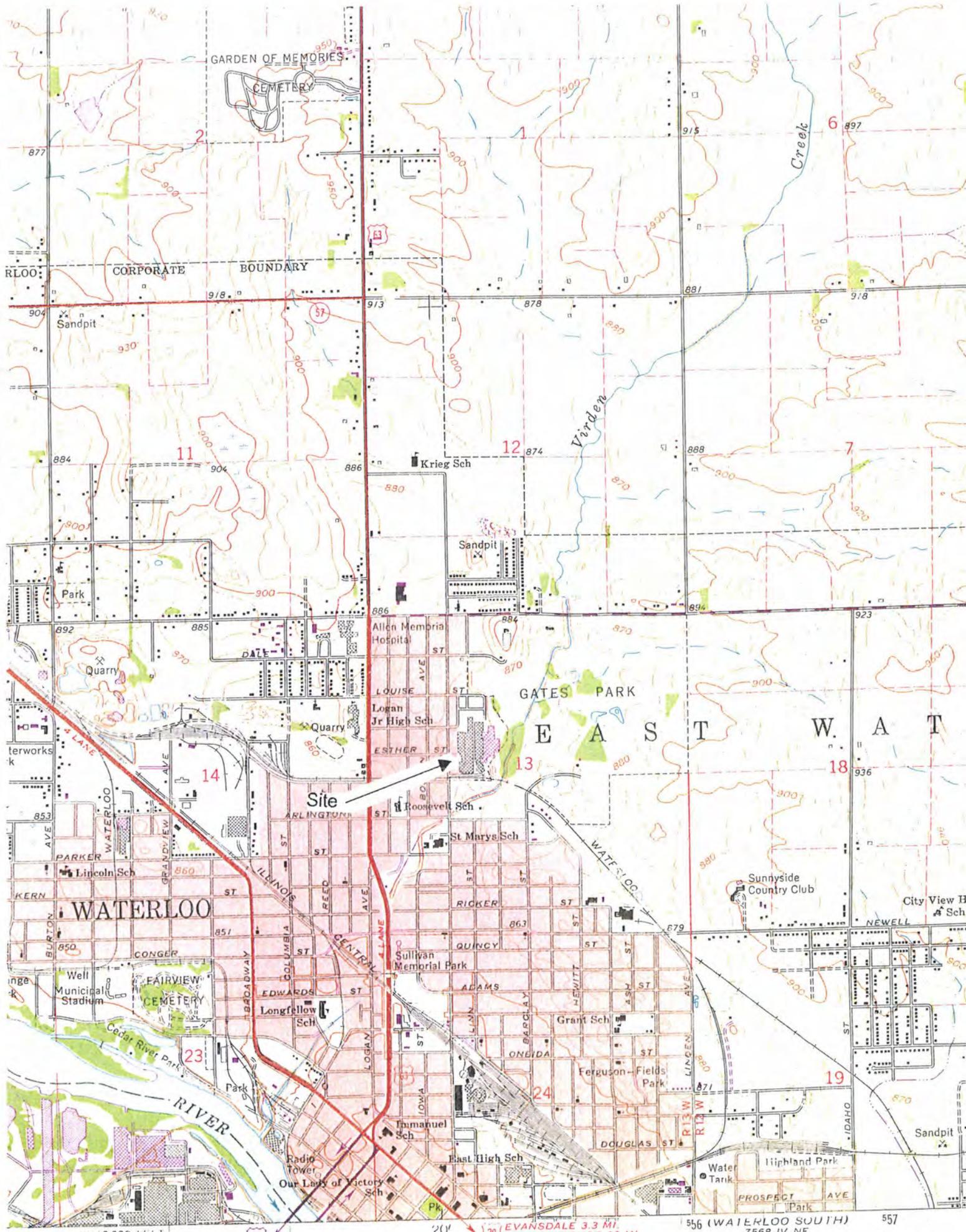
SCALE 1:24 000

1963

Geological Survey

Checked 1963

1 0 1000 2000 3000 4000 5000 6000 1 KILO

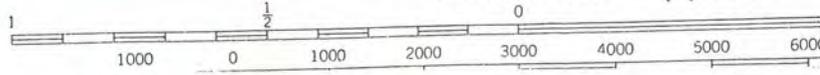


by the Geological Survey

63 WATERLOO (P.O.) 0.3 MI. TRAER 25 MI.
 20 EVANSDALE 3.3 MI. INDEPENDENCE 23 MI.

SCALE 1:24 000

1972



MN



EDR® Environmental
Data Resources Inc

**The EDR-Historical
Topographic Map
Report**

**Chamberlain Manufacturing Corp
550 Esther Street
Waterloo, IA 50703**

February 25, 2004

Inquiry Number: 1133124-5

**The Standard
In Environmental
Risk Management
Information**

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.

Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property, and its surrounding area, resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

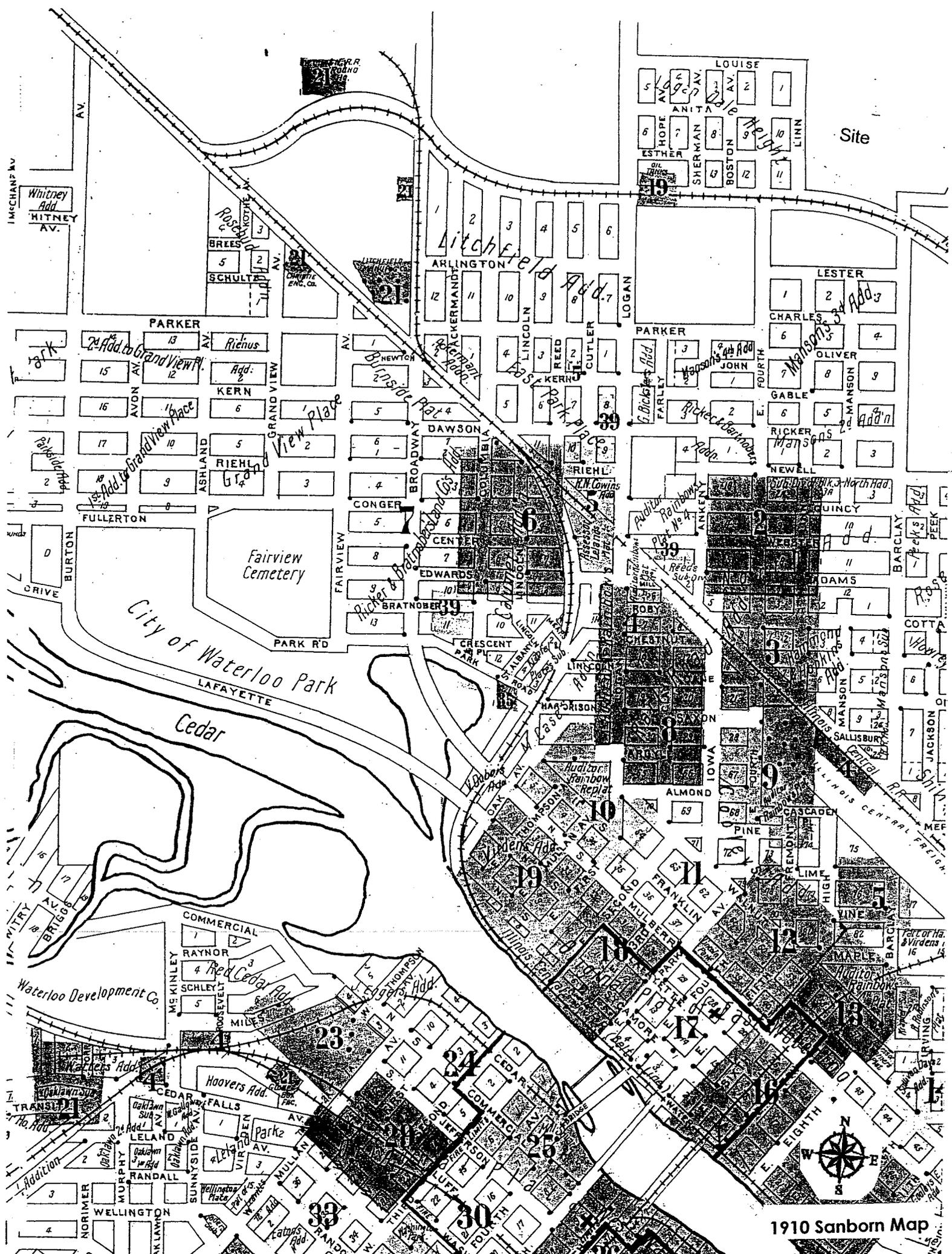
To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, city directories, fire insurance maps, topographic maps, property tax files, land title records (although these cannot be the sole historical source consulted), building department records, or zoning/and use records. ASTM E 1527-00 requires "*All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful.*" (ASTM E 1527-00, Section 7.3.2 page 12.)

EDR's Historical Topographic Map Report includes a search of available public and private color historical topographic map collections.

Topographic Maps

A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black); and features that have been updated using aerial photography, but not field verified, such as disturbed land areas (e.g., gravel pits) and newly developed water bodies (purple).

For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area bounded by latitude and longitude. Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area, and due to their frequent availability can be particularly helpful when other standard historical sources (such as city directories, fire insurance maps, or aerial photographs) are not reasonably ascertainable.



Site

1910 Sanborn Map

Courtland Park, between Dunham and Lake Ave., South of Water St.
 Electric Park, Northwest of City.
 Galloway, Bismark Ave. between Magnolia and Evergreen.
 Gates', E. 4th and W. C. F. & N. Tracks.
 Lafayette Park, End of Linden Ave. at Lafayette St.

Assoc. Office, Cor. Commercial and W. Park Ave.
 Post Office, Station A, E. 5th, between Lafayette and S
 Pythian Hall, 409-13 Commercial.
 Syndicate Block, 17-25 Bridge.
 Union Station, 4th and Bluff.

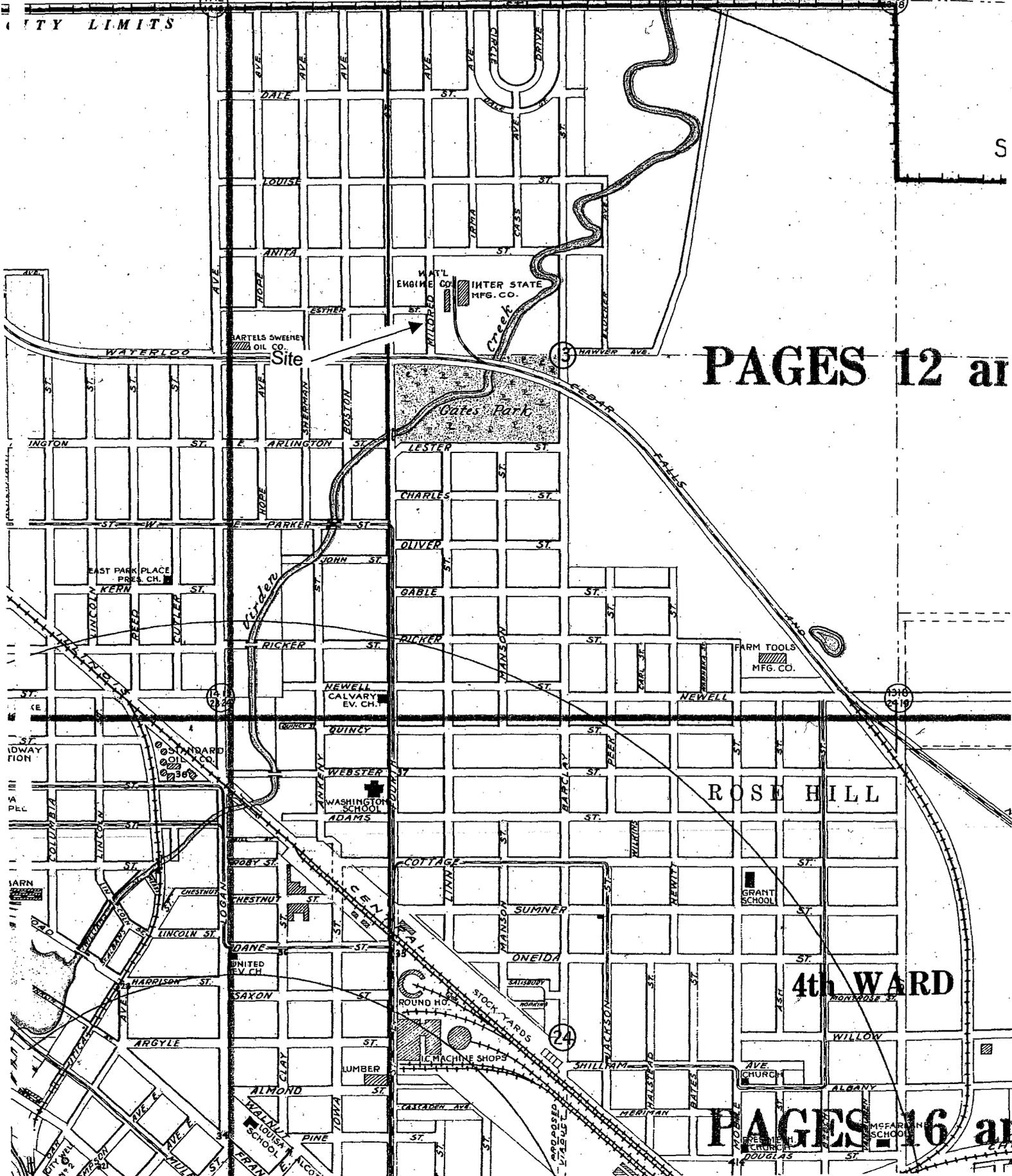
1916

8 WATERLOO 9

10 RANGE 13 WEST 11

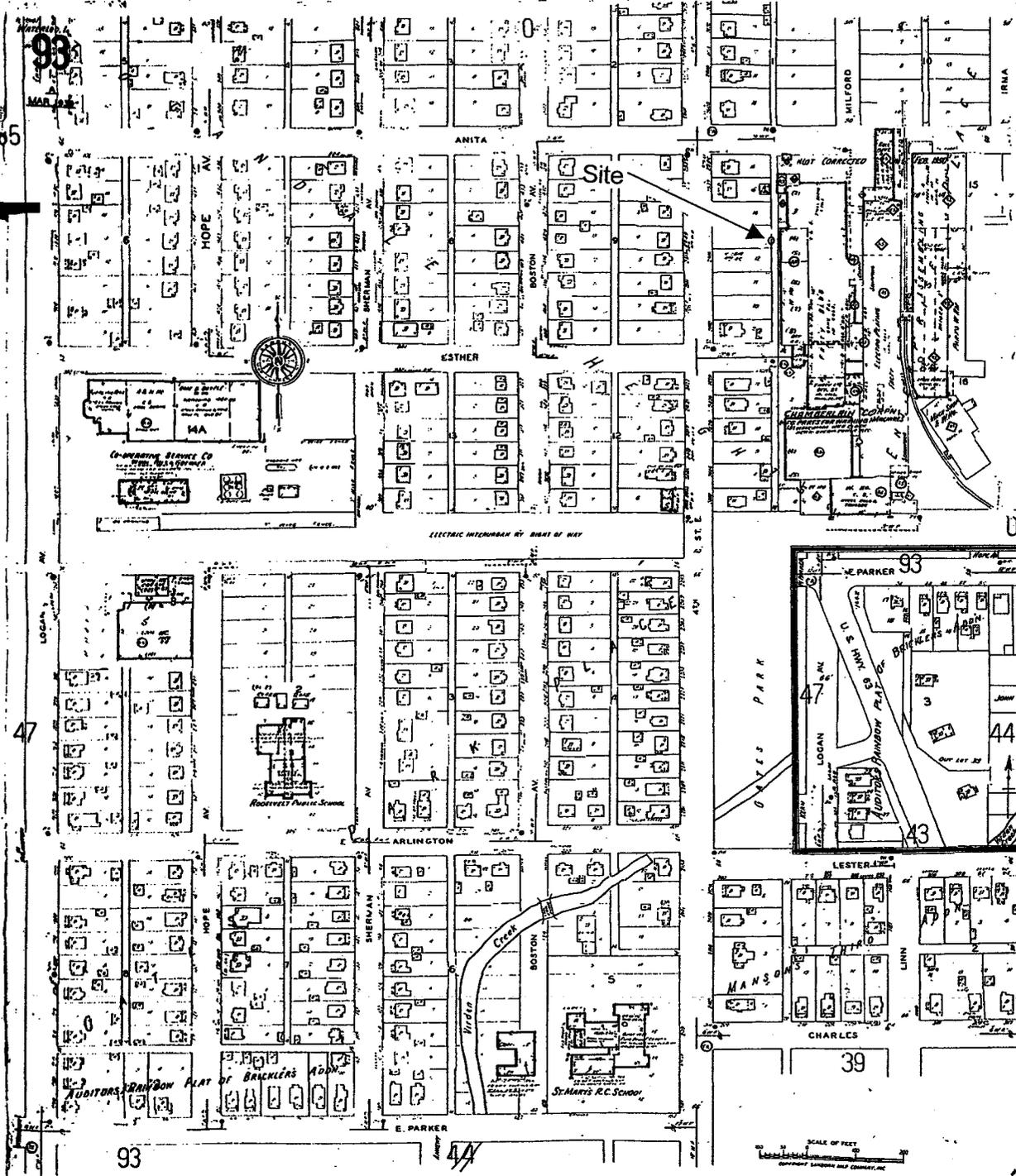
12

13



PAGES 12 and 13

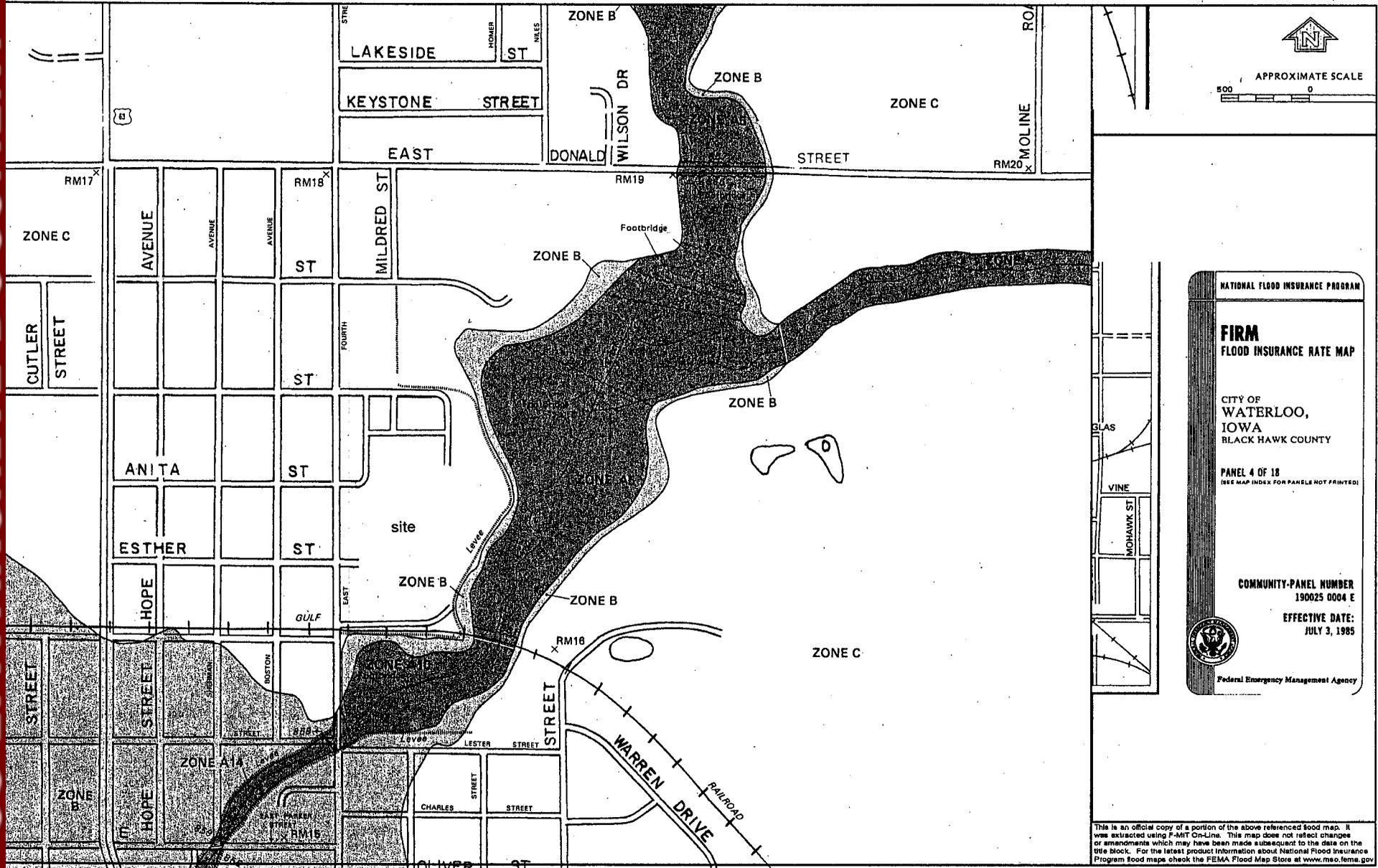
PAGES 16 and 17



The Sanborn Library, LLC

Copyright © 1990 The Sanborn Library, LLC SES
Year: 1944 EDI Research Associates

Reproduction in whole or in part of any map of The Sanborn Library, LLC may be prohibited without prior written permission from The Sanborn Library, LLC.



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
WATERLOO,
IOWA
BLACK HAWK COUNTY

PANEL 4 OF 18
(SEE MAP INDEX FOR PANELS NOT PRINTED)

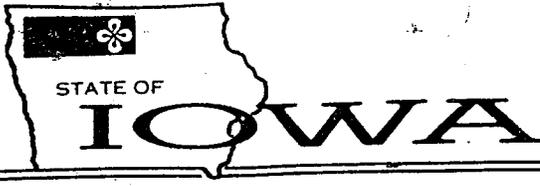
COMMUNITY-PANEL NUMBER
190025 0004 E

EFFECTIVE DATE:
JULY 3, 1985

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.mco.fema.gov

APPENDIX F
REGULATORY AGENCY DATA



TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF PUBLIC HEALTH
CHRISTOPHER G. ATCHISON, DIRECTOR

June 26, 1995

COPY

James R. Viereg, Vice President
Chamberlain Manufacturing Corporation
845 Larch Avenue
Elmhurst, Illinois 60126

Dear Mr. Viereg:

Enclosed is Amendment 02 to your Iowa License No. 0210-1-07-SM1 which terminates your license as requested in your letter dated February 6, 1995. Additional documentation concerning the closing of the facilities in Iowa has been provided in letters dated March 17, 1995, March 20, 1995 and June 14, 1995.

If you have any questions concerning this matter, please contact Daniel McGhee at 515-281-7007 or me.

Sincerely,

George F. Johns, Jr.
Radioactive Materials Program
Bureau of Radiological Health
515-242-6280

Enclosure

DKM
DAF



Iowa Department of Public Health
MATERIALS LICENSE

Page 2 of 1 Pages

Supplementary Sheet

License No.: 0210-1-07-SM1
Amendment No. 01

Chamberlain Manufacturing Corporation
550 Esther Street
PO Box 2335
Waterloo, Iowa 50704

COPY

In accordance with your request of February 6, 1995, Iowa Radioactive Materials License No. 0210-1-07-SM1 is hereby terminated.

For the Iowa Department of Public Health

Date

June 26, 1995

By

George F. Johns, Jr.

George F. Johns, Jr.
Bureau of Radiological Health

Date

June 29, 1995

Concurrence

Donald A. Flater
for Donald A. Flater, Chief
Bureau of Radiological Health

GFJ/DAF/rlu

MEMO FOR FILE

COPY

DATE: May 31, 1995

FROM: George F. Johns, Jr.

On May 9, 1995, I met with Gary Lee Wilcox who is one of the three caretakers for Chamberlain Manufacturing Corporation facility at 550 Ester Street in Cedar Rapids, Iowa. Mr. Wilcox was an employee with Chamberlain throughout the time depleted uranium was used at the plant. This time includes the research and development phase as well as the production phase for the depleted uranium projectiles.

Using a Ludlum 14C serial number 33268 with a 44-2 serial number PR018013 that were calibrated January 31, 1995, the following areas of the complex were surveyed:

Windshield Assembly and Paint Room
Locker Room
Production Area
Receiving Area
DU Assembly Room (R&D Lab)

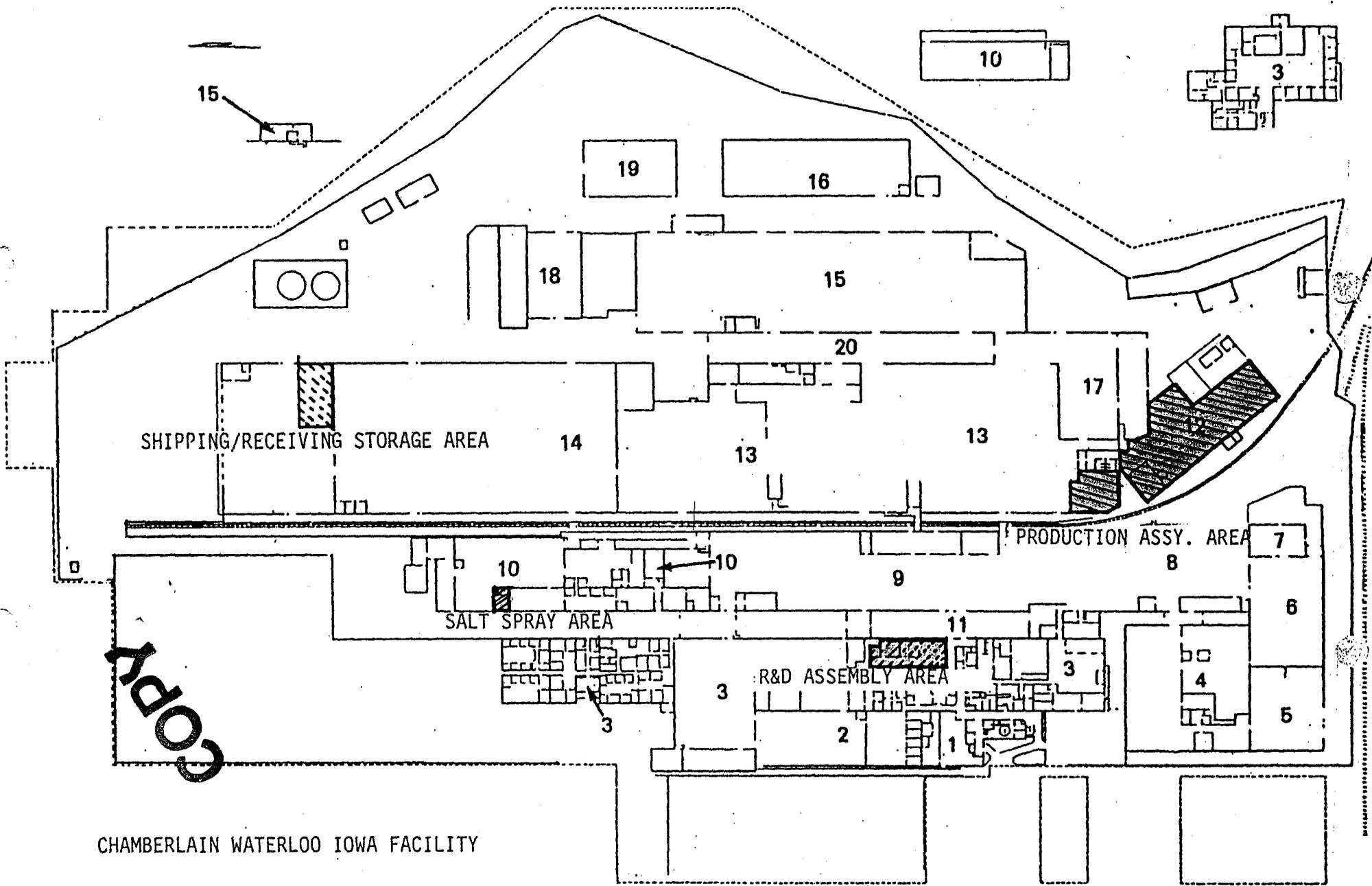
The attached maps indicate the spaces surveyed. The first map provides a overview of the property and a perspective of the areas involved.

The areas were surveyed with the probe within six inches of the floor. Using a pattern that was approximately three feet wide, the inspector walked through each of the above areas. Except for the main part of the DU Assembly Area the areas were free of debris and obstructions. File cabinets were stored in the DU Assembly Area. In the DU Assembly Area, the inspector surveyed the aisles and all accessible floor areas.

All levels ranged between 3 and 5 μ R per hour that was the same as the background level established in the parking lot at the entrance to the Chamberlain facility.

Based upon the levels that were obtained, it is my conclusion that there are no radiological concerns associated with the decommissioning of the plant.

OVERVIEW OF FACILITY



CHAMBERLAIN WATERLOO IOWA FACILITY

AREAS SURVEYED

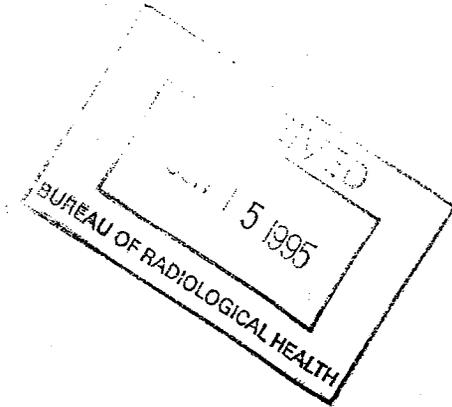


Gary Lee Wilcox

Environmental & Safety Consulting

June 14, 1995

COPY



George F. Johns, Jr.
Environmental Specialist
Iowa Department of Public Health
Lucas State Office Building
Des Moines, IA 50319-0075

Subject: License SUB-1198

Dear Mr. Johns:

Confirming the information provided during your inspection visit to Chamberlain Manufacturing Corporation, the final monitoring results were reported in counts per minute. The readings were taken with the SAC-4 which has an 80% efficiency. This should complete your files to allow closing of the license.

Could you please provide confirmation of your inspection results to Duchossois Industries Inc., 845 Larch Ave. Elmhurst, IL 60126-1196? They would like something in their files to indicate you folks have surveyed the facility and it is clean.

Sincerely yours,


Gary Lee Wilcox
Consultant

cc: DII

1126 Hammond Ave.

Waterloo, IA 50702

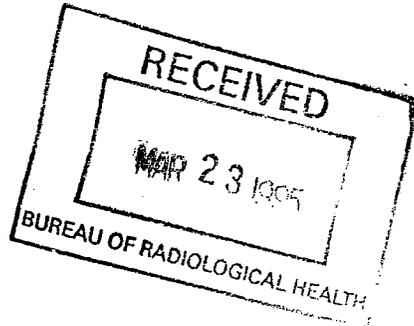
Phone 319 232-6112



Chamberlain

COPY

March 20, 1995



Ms. Charlene Craig
Department of Public Health
Radiological Health Section
Bureau of Radiological Health
Lucas State Office Building
Des Moines, IA 503-19-0075

RE: Your letter of March 10, 1995
Concerning License #0210-1-07SM1

Dear Ms. Craig:

I am enclosing a copy of the final survey results. I am also enclosing a memo from Gary Wilcox concerning the status of the sealed source laboratory test equipment.

Please terminate our license as a result of the closure of the facility. We no longer have any radioactive material on site and do not plan to have any in the future.

Sincerely,

James R. Vieregg
Vice President/Controller

JRV:ds

Enclosure

Final Wipe Samples DU Room

All Readings taken with e-530 #829 and SAC-4 #344
Calibration 5/943

COPY

Description	Wipe #	2/23/94 Reading
Sabot a1-1	67	2
Sabot A1-2	69	3
Sabot A1-3	70	4
Sabot A1-4	71	5
Sabot A1-5	72	2
Sabot A1-6	73	5
Sabot A1-7	74	1
Sabot A1-8	75	0
Sabot A1-9	76	4
Sabot A1-10	77	3
no sabots A1-11 thru A1-29		
Sabot A1-30	78	2
Sabot B1-1	79	6
Sabot B1-2	80	0
Sabot B1-3	81	2
Sabot B1-4	82	3
Sabot B1-5	83	5
B1-6 Empty		
Sabot B1-7	84	1
Sabot B1-8	85	1
Sabot B1-9	86	1
Sabot B1-10	87	3
B1-11-B1-14 Empty		
Sabot B1-15	88	1
B1-16 thru B1-30 Not assembled		
Sabot C1-4	89	2
Sabot A2-5	90	1
Sabot A2-6	91	0
Sabot B2-18	92	2
Sabot C2-3	93	2
Sabot C2-18	94	3

Readings on 2/25/94 after emptying room

Long table s. room	98	0
Assembly table S room	99	1
Jake Press	100	2
S Room E wall table	1	3
Rubber assem fix	2	2
Sundstrand 2574	3	3
Work table at Sundstrand	4	2
Table S Room W Wall	5	1
Floor at Jake Press	6	4
Floor at Sundstrand	7	3
Floor at W Wall Bench S Room	8	3

*Per Gary Wilcox
cpm*

*Bob Sulentic
319-291-9020
236-8792*

Floor at doorway West

9

4

Floor centerline of S Room

10

1

COPY

COPY

Gary Lee Wilcox
Safety & Environmental Engineering Consultant
1126 Hammond Avenue
Waterloo, Ia 50702
Phone: 319-232-6112

DATE: March 17, 1995

TO: Ron Sulentic

FROM: Gary Wilcox



RE: Sealed source

Ron,

According to my notes I located the sealed source with a Harold Johns Co. P.O. Box 247, Highland Park, IL., 608-221-1122. I confirmed by telephone that they did indeed have the unit and recognized that it was a radio active device. I told them they should expect to be contacted by the Iowa Department of Health. I provided this information by phone to the Iowa Department of Health. I started with Don Flater and believe I ended up giving the information to Dan McGee. These calls were on or about the 13 of October 1994.

I also received a call from a Charlene out of that office. She is the one handling Jim's notice letter. She wanted to know if I had gotten a copy. I told her no, but I had seen it. McGee had apparently not put the information I gave him into the CMC file and they don't know where it is. (He is gone for two weeks). She said to go ahead and have Jim submit a response to their letter and include the information on where the source went and that we did not get a receipt for it because we thought they were handling that part.

PER
MICHAEL JOHNS OF HAROLD JOHNS CO. THE SOURCE
WAS IN A GAS CHROMATOGRAPH. SENDING FAX TO VERIFY
RECEIPT.

GJS
5/8/95

US EPA ARCHIVE DOCUMENT

In Our
3rd Decade
Providing Value

harold johns CO.

DEALERS IN PREVIOUSLY OWNED EQUIPMENT

MDNA
MACHINERY DEALERS
NATIONAL ASSOCIATION

P.O. Box 247, Highland Park, IL 60035
Phone (708) 433-6230 FAX (708) 433-6235

COPY

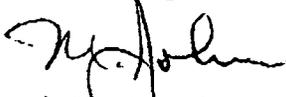
May 8, 1995

George Johns
Iowa Department of Public Health

Mr. Johns

We purchased a Varian Model 3300 Gas Chromatograph from
Chamberlain Manufacturing in Waterloo, Iowa in the fall of 1994.
It is Varian System No. 4290-4054.

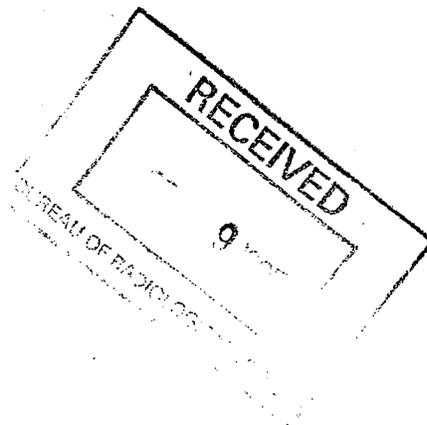
Sincerely,


Michael Johns



Chamberlain

COPY



February 6, 1995

Bureau of Radiological Health
Radioactive Materials Program
Lucas State Office Building
Des Moines, IA 50319-0075

Reference: License No. SUB-1198

Gentlemen:

This letter is to provide official notification that all activity using radioactive materials by Chamberlain Manufacturing Corporation under the subject license has been discontinued and the facility at 550 Esther Street has been closed. All radioactive materials have been removed and the controlled areas were thoroughly surveyed prior to decommissioning.

It should be further noted that all of the industrial radiography equipment located at this facility and at the Company's Denver, IA test site has been scrapped. The single licensed sealed source was sold to a firm in Illinois and that information was previously provided to you.

All records which were required to be retained relative to these two programs are being retained by the Company's parent firm, Duchossois Industries, Inc., 845 Larch Avenue, Elmhurst, IL 60126-1196.

Sincerely,

James R. Vieregg
Vice President/Controller

JRV:ds

cc: G. Wilcox



TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF PUBLIC HEALTH
CHRISTOPHER G. ATCHISON, DIRECTOR

March 10, 1995

COPY

James R. Vieregg
Chamberlain Manufacturing Corp.
845 Larch Avenue
Elmhurst, IL 60125-1196

Dear Mr. Vieregg:

Thank you for your letter of February 6, 1995, regarding the disposal of radioactive material for Iowa license number 0210-1-07-SM1, formerly SUB-1198, located at 550 Esther in Waterloo, Iowa. Please provide the following:

1. A copy of the survey results.
2. A copy of the receipt of the sealed source by the firm in Illinois.
3. A request to terminate the license.

Please contact me or Dan McGhee at 515/281-7007 if you have any questions. Thank you for your cooperation.

Sincerely,

Charlene Craig
Radiological Health Section
Bureau of Radiological Health
515/281-4942

M

US EPA ARCHIVE DOCUMENT

Iowa Department of Natural Resources
 109 Trowbridge Hall
 Iowa City, IA 52242-1319
 319-335-1575
 319-335-2754 (fax)



To: Cynthia Quast
 Howard R. Green Company
 22 South Linn Street
 Iowa City, IA 52240
 319-337-2858/319-337-2878 (fax)

From: Paul VanDorpe

Date: 3/25/2004

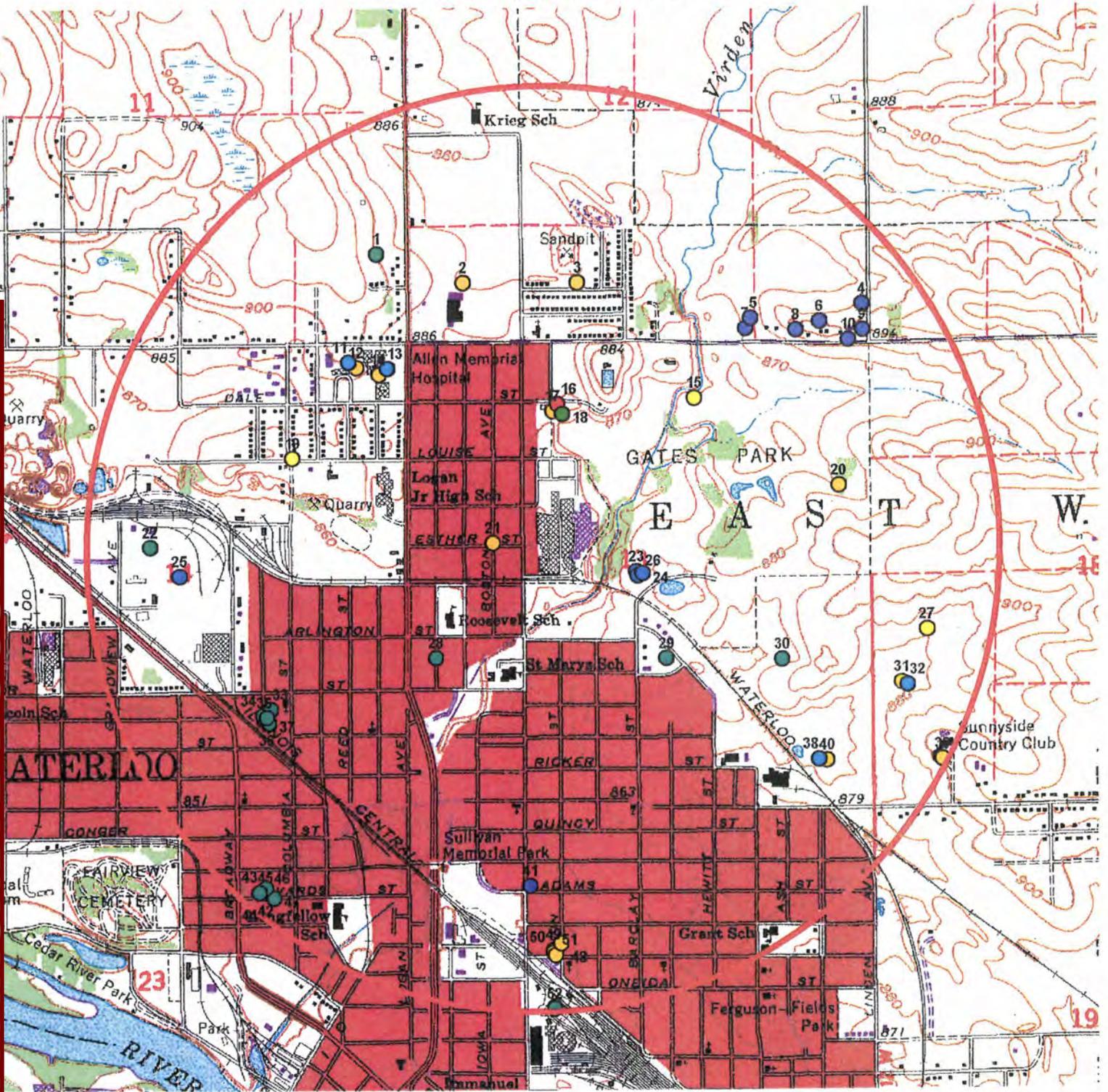
Subject: Well search results

Included in search	No. of wells	Database
X	14	IGS well database general well database maintained by IGS, location accuracy varies 3,730 to 25 ft., last updated 8/2003.
X	1	Public wells (municipal) municipal well database maintained by IGS, location accuracy varies 3,730 to 25 ft., under development
X	4	Public wells (non-municipal) municipal well database maintained by IGS, location accuracy varies 3,730 to 25 ft., under development
X	8	Private well tracking system IDNR database management system for Grants-to-counties-covered wells. Locational accuracy unknown, assumed to be +/-17m., Last update 9/2003.
X	0	Wells registered for testing wells <i>tested</i> under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m. Last update 9/2001, no future updates planned.
X	3	Permitted private wells wells <i>permitted</i> under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	17	Registered abandoned wells wells <i>abandoned</i> under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	1	Public water supply wells and intakes locational accuracy 220 m., last updated 8/96
X	4	Water use permit facilities facilities permitted to withdraw >25,000 gallons per day, locational accuracy is +/- 3,750 ft.; last updated 10/96
X	0	Agricultural drainage wells locational accuracy 100m., last updated 4/98

IGS Well Search Results

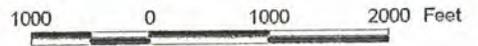
From client-supplied map location

US EPA ARCHIVE DOCUMENT



Well search results

- IGS well database
- Public wells (municipal)
- Public water supply wells and intakes
- Public wells (non-municipal)
- Registered abandoned wells
- Permitted private wells
- Private well tracking system wells
- Water use permit facilities



*Note: wells with identical locations have been shifted from their original locations for the purpose of preparing this map.



Iowa Geological Survey
 109 Trowbridge Hall
 Iowa City, IA 52242-1319
 319-335-1575
 319-335-2754 (fax)
 March 25, 2004

Well Search Results

IGS well database

Map Id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
2	4020	T. 89 N., R. 13 W., Sec. 12, SW, SW	112	5/27/1949	Mcfarland, K.a.	Bedrock depth 45 ft.; scanned log available
3	4600	T. 89 N., R. 13 W., Sec. 12, SW, SE	186	1/1/1949	Homan, Clarence	Bedrock depth 135 ft.; scanned log available
12	32782	T. 89 N., R. 13 W., Sec. 14, NE, NE	200	10/11/1991	Allen Memorial Hospital	Bedrock depth 32 ft.
14	16378	T. 89 N., R. 13 W., Sec. 12, SW, SW, SW	175	4/1/1964	Allen Hospital	Bedrock depth 35 ft.; scanned log available
17	43049	T. 89 N., R. 13 W., Sec. 13, NW, NE, SW, NE	151	1/1/1979	Waterloo, City Of	Bedrock depth 24 ft.
20	17208	T. 89 N., R. 13 W., Sec. 13, NE, SE, NE	100	1/1/1964	Waterloo Park Commission	Bedrock depth 35 ft.; scanned log available
21	26360	T. 89 N., R. 13 W., Sec. 13, NW, SW, SE	300	8/26/1980	Chamberlain Mfg. Corp.	Bedrock depth 65 ft.
31	31250	T. 89 N., R. 13 W., Sec. 0	176	3/19/1990	Red Carpet Golf Club	Bedrock depth 43 ft.
39	22189	T. 89 N., R. 12 W., Sec. 18	200	2/8/1969	Sunnyside Country Club	Bedrock depth 145 ft.
40	26432	T. 89 N., R. 13 W., Sec. 13, SE, SE	115	7/31/1981	Porky's Red Carpet	Bedrock depth 17 ft.
48	2790	T. 89 N., R. 13 W., Sec. 24, NW, SE, NW	16	3/15/1947	Illinois Central Rr	Bedrock depth unkn
49	2787	T. 89 N., R. 13 W., Sec. 24, NW, SE, NW	30	3/13/1947	Illinois Central Rr	Bedrock depth unkn
50	2788	T. 89 N., R. 13 W., Sec. 24, NW, SE, NW	24	unkn	Illinois Central Rr	Bedrock depth unkn
51	2789	T. 89 N., R. 13 W., Sec. 24, NW, SE, NW	25	3/15/1947	Illinois Central Rr	Bedrock depth unkn

Public wells (municipal)

Map Id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
16	43049	T. 89 N., R. 13 W., Sec. 13, NW, NE, SW, NE	151	1/1/1979	Waterloo, City Of	Bedrock depth unkn; Well status: Primary; Local id: #22

Public wells (non-municipal)

Map Id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
11	32782	T. 89 N., R. 13 W., Sec. 14, NE, NE, NE, NW, SW	200	10/11/1991	Allen Memorial Hospital	Bedrock depth: 32; Well status: Unknown
13	16378	T. 89 N., R. 13 W., Sec. 14, NE, NE, NE, SE, NW	175	3/31/1964	Allen Memorial Hospital	Bedrock depth: 35; Well status: Unknown
32	31250	T. 89 N., R. 12 W., Sec. 18, SW, NW, SW, SW	176	3/19/1990	Red Carpet Golf (porky'S)	Bedrock depth: 43; Well status: Primary
38	26432	T. 89 N., R. 13 W., Sec. 13, SE, SE, SE, NW	115	7/31/1981	Red Carpet Golf (porky'S)	Bedrock depth: 17; Well status: Primary

Private well tracking system wells

Map Id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
4	2089443	unkn	120	1/1/1964	Wrage, Marvin	Status: Active Use: Household Program source: Well testing
5	2089651	T. 89 N., R. 13 W., Sec. 12, SE SE SW SW NW	100	1/1/1949	Moklestad, Eric	Status: Active Use: Household Program source: Well testing
6	2089652	T. 89 N., R. 13 W., Sec. 12, SE SE SE SW NE	100	1/1/1949	Weihs, Jeff	Status: Active Use: Household Program source: Well testing
7	2089650	T. 89 N., R. 13 W., Sec. 12, SE SE SW SW SW	100	1/1/1950	Lovick, Paul	Status: Active Use: Household Program source: Well testing
8	2089657	T. 89 N., R. 13 W., Sec. 12, SE SE SW SE SE	60	1/1/1950	Lidie, Mike	Status: Active Use: Household Program source: Well testing
9	2089655	T. 89 N., R. 12 W., Sec. 7, SW SW SW SW SW	100	1/1/1964	Yard, Robert	Status: Active Use: Household Program source: Well testing
10	2089654	T. 89 N., R. 13 W., Sec. 12, SE SE SE SE SE	100	1/1/1958	Vander Hart, Glen	Status: Active Use: Household Program source: Well testing
41	2089617	T. 89 N., R. 13 W., Sec. 24, NW NE SW NW SW	unkn	unkn	Swanger, Richie	Status: Permitted Use: Heat pump Program source: New permit

Permitted private wells

Map id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
15	17382	T. 89 N., R. 13 W., Sec. 13, NE, NW	90	unkn	Unkn	Primary use: Heating and air conditioning
19	20095	T. 89 N., R. 13 W., Sec. 14, , , NE	200	unkn	Unkn	Primary use: Heating and air conditioning
27	20117	T. 89 N., R. 12 W., Sec. 18, SW, NW	160	1/19/1990	Red Carpet Golf	Primary use: Irrigation

Registered abandoned wells

Map id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
1	8945	T. 89 N., R. 13 W., Sec. 11, SE, SE, NE	66	n.a.	Hospital, Allen Mem.	Well plugged: 11/16/1992; Well type: < 18" dia.
22	23740	T. 89 N., R. 13 W., Sec. 14, NW, SE, SE	20	n.a.	Tompkins, Roger	Well plugged: 4/9/1996; Well type: < 18" dia.
28	14134	T. 89 N., R. 13 W., Sec. 13, SW, NW, SW	20	n.a.	Lehman, Pepsi-cola Bot Co.la	Well plugged: 7/30/1992; Well type: < 18" dia.
29	36840	T. 89 N., R. 13 W., Sec. 13, SE, NW, SW	44	n.a.	Ernster & Company, Inc.	Well plugged: nil; Well type: < 18" dia.
30	40061	T. 89 N., R. 13 W., Sec. 13, SE, NE, SW	104	n.a.	Chicago Central & Pacific	Well plugged: 1/18/2000; Well type: < 18" dia.
33	42900	T. 89 N., R. 13 W., Sec. 14, SE, SW, NE	17	n.a.	Elite Services, Inc.	Well plugged: 6/2/1999; Well type: < 18" dia.
34	42899	T. 89 N., R. 13 W., Sec. 14, SE, SW, NE	16	n.a.	Elite Services, Inc.	Well plugged: 6/2/1999; Well type: < 18" dia.
35	42898	T. 89 N., R. 13 W., Sec. 14, SE, SW, NE	23	n.a.	Elite Services, Inc.	Well plugged: 6/2/1999; Well type: < 18" dia.
36	42902	T. 89 N., R. 13 W., Sec. 14, SE, SW, NE	22	n.a.	Elite Services, Inc.	Well plugged: 6/2/1999; Well type: < 18" dia.
37	42901	T. 89 N., R. 13 W., Sec. 14, SE, SW, NE	15	n.a.	Elite Services, Inc.	Well plugged: 6/2/1999; Well type: < 18" dia.
42	41288	T. 89 N., R. 13 W., Sec. 23, NE, NW, SE	20	n.a.	Ultramar Diamond Shamrock	Well plugged: 4/8/1999; Well type: < 18" dia.
43	41285	T. 89 N., R. 13 W., Sec. 23, NE, NW, SE	20	n.a.	Ultramar Diamond Shamrock	Well plugged: 4/8/1999; Well type: < 18" dia.
44	41289	T. 89 N., R. 13 W., Sec. 23, NE, NW, SE	20	n.a.	Ultramar Diamond Shamrock	Well plugged: 4/8/1999; Well type: < 18" dia.
45	41284	T. 89 N., R. 13 W., Sec. 23, NE, NW, SE	15	n.a.	Ultramar Diamond Shamrock	Well plugged: 4/8/1999; Well type: < 18" dia.
46	41286	T. 89 N., R. 13 W., Sec. 23, NE, NW, SE	20	n.a.	Ultramar Diamond Shamrock	Well plugged: 4/8/1999; Well type: < 18" dia.
47	41287	T. 89 N., R. 13 W., Sec. 23, NE, NW, SE	20	n.a.	Ultramar Diamond Shamrock	Well plugged: 4/8/1999; Well type: < 18" dia.
52	16280	T. 89 N., R. 13 W., Sec. 24, NW, SE, SW	15	n.a.	Central & Pacific Railroa, Chicago	Well plugged: 1/12/1994; Well type: unkn

Public water supply wells and intakes

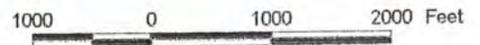
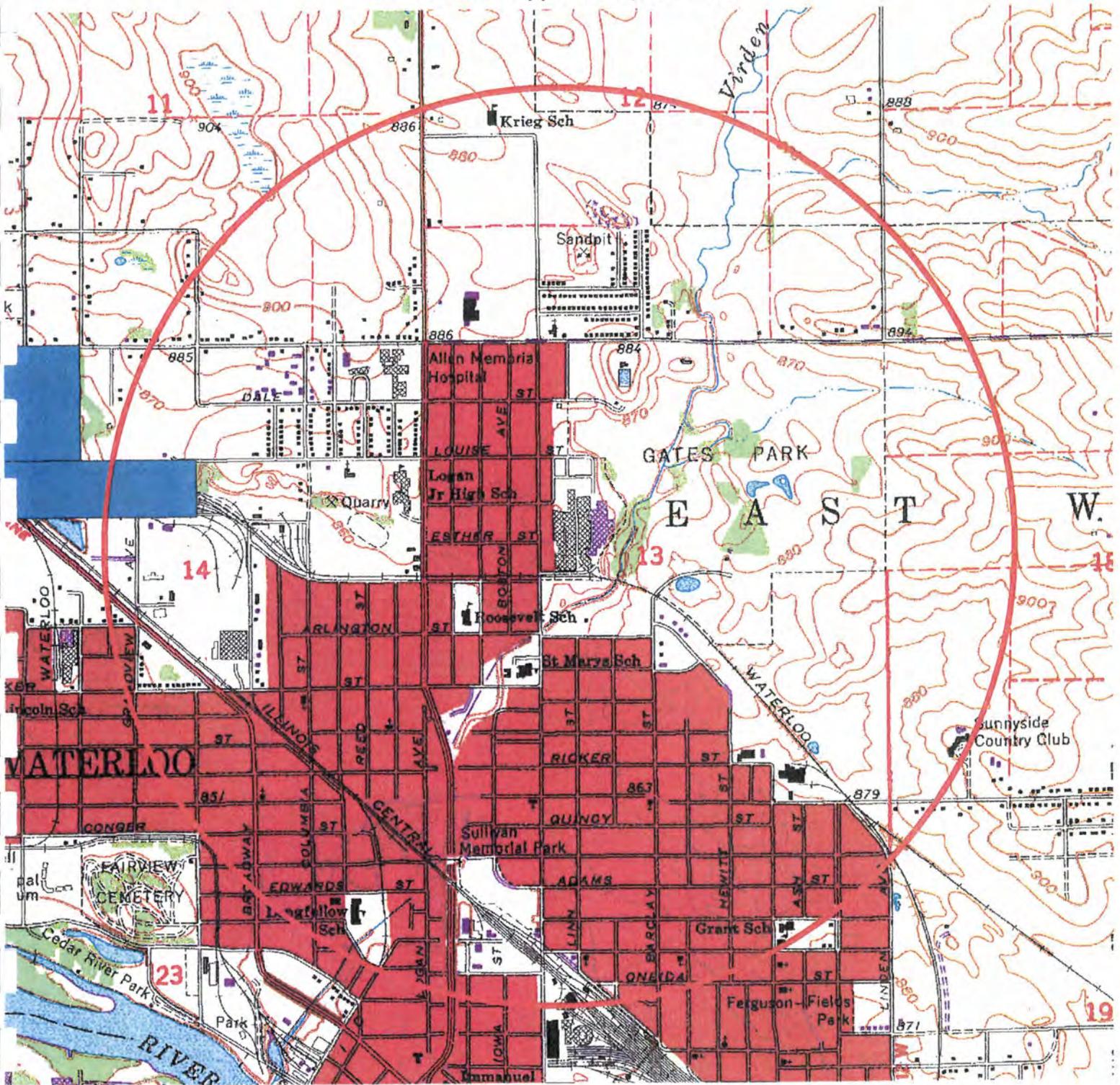
Map id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
18	1518	T89N, R13W, Sec. 13	n.a.	n.a.	Waterloo	n.a.

Water use permit facilities

Map id	Well No.	Location	Well depth	Construction/ Permit date	Owner/Permittee	Other information
23	1518	T. 89 N., R. 13 W., Sec. 13	n.a.	n.a.	Waterloo Water Works	Source: Well, 15 wells authorized, Use: Municipal
24	6955	T. 89 N., R. 13 W., Sec. 13	n.a.	n.a.	Red Carpet Golf	Source: Well, 2 wells authorized, Use: Golf course irrigation
25	2878	T. 89 N., R. 13 W., Sec. 14	n.a.	n.a.	Allen Memorial Hospital	Source: Well, 2 wells authorized, Use: Air-conditioning
26	4982	T. 89 N., R. 13 W., Sec. 13	n.a.	n.a.	Chamberlain Mfg. Co.	Source: Well, 3 wells authorized, Use: Manufacturing

IGS Well Search Results

From client-supplied map location



- Mines_2000.shp
- Sanitary_disposal_sites.shp

*Note: wells with identical locations have been shifted from their original locations for the purpose of preparing this map.

Mines within one-mile of client-supplied map location

Shape	Id	Count	Utm x	Utm y	Site	Type	Status	Company	License	Product	County	Co	Twp	Rng	Sec	Legal	History	G v
Shape	7004	5	553200	4708045	Burton Avenue Quarry	S	C	Martin Marietta Materials, Inc.	81	L	Black Hawk	7	89	13W	14	N2-S2-NW4 & NW4-NW4	R68(81), C80	

APPENDIX G
FIELD OBSERVATIONS SHEETS

Site Inspection Worksheet
 (for Phase I: Environmental Site Assessments)

1 Site Location *Chamberlain Mfg.*

1.1 Site Address	550 ESTHER STREET WATERLOO IA 50703 PARCEL ID 8913-13-326-001
1.2 Crossing & Bordering Streets	ESTHER & EAST 4TH STREET, LOUISE TO NORTH INTERSECTS ALONG WEST BORDER
1.3 Railways	CHICAGO CENTRAL - SOUTH PROPERTY LINE
1.4 Other Boundary Structures	GATES PARK GOLF COURSE / VIRDEN CREEK - EAST LOWER GATES PARK - SOUTH CHICAGO CENTRAL RAILROAD - SOUTH RESIDENTIAL ALONG NORTH & WEST

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2 Site Description

2.1 Physical Description of Site	
2.1.1	Estimated % of site covered by pavement & structures: 80%
2.1.2	Site layout & structure location. Multiple bldgs built over years of operation
2.1.3	Topography & Slope
2.1.3.1	Drainage pathways Virden Creek along the east + south property lines
2.1.3.2	Degree of slope Slopes toward creek slightly
2.1.3.3	Grading and fill indications Along eastern property found fire hydrant w/ fill up halfway on stub.
2.1.4	Surface Water
2.1.4.1	Perennial None onsite
2.1.4.2	Intermittent NONE ONSITE
2.1.5	Ditches and Stormwater Collection Systems Virden Creek along east + south property borders
2.2 Current Use	
2.2.1	Activities One building currently being used for misc. storage. Remainders of buildings were vacant.
2.2.2	Raw Materials NONE
2.2.3	Waste Generated No

Facility Information

3.1 Structures	
3.1.1	Number of Structures: <u>~24</u>
3.1.2	Type of Structures: <u>Wood & metal framed dependent on year of construction</u>
3.1.3	Approximate Age (within asbestos and lead paint time frames): <u>50 to 100 years old</u>
3.2 Utility Systems	
3.2.1	Facility Water Supply: <u>Municipal</u>
3.2.2	Facility Sanitary Sewer: <u>Municipal</u>
3.2.3	Facility Sources of Energy: <u>NATURAL GAS, PROPANE, ELECTRIC</u>
3.2.4	Non-facility Utilities Crossing Property: <u>NONE</u>
3.3 Exterior Facility Information	
3.3.1	Non-occupied Structures: <u>~20. Various buildings contained misc. materials. Some others were used by owner for storage.</u>
3.3.2	AST's: <u>2 large in rear - one behind bldg. 21, 2 large behind bldg. 15.</u>
3.3.3	Exterior Storage Areas
3.3.3.1	Waste: <u>NO</u>
3.3.3.2	Raw: <u>NO</u>
3.3.3.3	Product: <u>NO</u>
3.3.4	Signs of UST's: <u>CONSULTANT pointed out repaired/patched concrete</u>
3.3.5	Transformers: <u>REAR OF PROPERTY - SE CORNER</u>
3.3.6	Pits, Ponds, or other potential disposal areas: <u>Alleged buried debris.</u>
3.3.7	Abandoned and Demolished Structures: <u>One building had a collapsed roof, all but two appear abandoned</u>

3.3	Exterior Facility Information
3.3.8	Unused Utility Systems Municipal water, sewer, electric & natural gas
3.4	Interior Facility Structures
3.4.1	Production Areas
3.4.1.1	Processes NONE
3.4.1.2	Condition Bldgs deteriorated, wet.
3.4.1.3	Signs of environmental concerns Patched pavement, possible ACMs & lead-based paint, floor drains, drums, tanks, haz. mat. storage placards.
3.4.1.4	Raw materials
3.4.1.5	Waste products
3.4.2	ASTs Multiple throughout site
3.4.3	Storage Areas
3.4.3.1	Raw
3.4.3.2	Waste DRUMS
3.4.3.3	Product
3.4.4	Floor Drains NUMEROUS - mostly empty into sewer
3.4.5	Internal Utilities
3.4.5.1	Lighting OVERHEAD
3.4.5.2	Transformers Most were PCB abated while plant was still operational.

3.4	Interior Facility Structures
3.4.5	Internal Utilities
3.4.5.3	Energy piping <i>Gas & electric</i>
3.4.5.4	Heating system
3.4.6	Sanitary Sewer Connections <i>Down Mildred St. Enters site on Esther</i>
3.4.7	Other Pertinent Observations

3 Hazardous Materials & Waste Management (house keeping)

4.0	Hazardous Materials & Waste Management (house keeping)
4.1	Manifesting <i>NA</i>
4.2	MSDS <i>NA</i>
4.3	Proper Storage <i>NA</i>
4.4	SPCC, Air Permits, FRP, PSM, NPDES, and other regulatory requirements met <i>NA</i>

4 Sensitive Receptors in the Area of the Subject Site

5.0	Sensitive Receptors in the Area of the Subject Site
5.1	Bodies of Water, Wetlands, Marshes, Sloughs, Seeps, and Depressed Areas <i>Warden creek along east & south property lines. About 100' away @ closest point. Tributary to Cedar River</i>
5.2	Wells, Cisterns, Ponds, and other sources of water <i>3 wells on site used for manufacturing purposes</i>
5.3	Residences <i>Adjacent to site along NW & N property line & Across E. 4th</i>
5.4	Schools, Playgrounds, or Child Care Facilities <i>Gates Park playground facility adjacent to site to south property line</i>
5.5	Senior Citizen Centers, Homes, or Care Facilities <i>None onsite or adjacent</i>
5.6	Other Potential Receptors <i>None</i>

General Observations

6.0	General Observations
6.1	Soil Conditions Sandy - gravel
6.2	Standing Water Conditions Entire facility had standing water - offices were covered in mold
6.3	Unusual Odors Office areas smelled moldy.
6.4	Unusual Vegetation Conditions Stressed vegetation on S. side of property. Unusual growth in various exterior portions of subject property (fungus like)
6.5	Unusual Wildlife Conditions Numerous at small animal carcasses throughout site.

Adjoining Properties Log

Northwest				
Property: <i>Dwellings</i>		Address: <i>E. 4th St, Louise St, Anita Streets</i>		
Residential	<input checked="" type="checkbox"/> Commercial	Industrial	Other _____	
Observations: <i>Lower-to moderate income level</i>				
<i>single-family dwellings</i>				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				

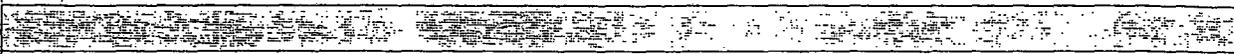
Adjoining Properties Log

North

Property: **GPTES PARK** Address: **E. Donald & Idaho**

Residential	Commercial	Industrial	Other <u>Municipal</u>	X
-------------	------------	------------	------------------------	---

Observations:
GOLF COURSE, SWIMMING POOL, TENNIS COURTS



Property: Address:

Residential	Commercial	Industrial	Other _____	
-------------	------------	------------	-------------	--

Observations:



Property: Address:

Residential	Commercial	Industrial	Other _____	
-------------	------------	------------	-------------	--

Observations:



Property: Address:

Residential	Commercial	Industrial	Other _____	
-------------	------------	------------	-------------	--

Observations:



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Adjoining Properties Log

Northeast

Property: Gates Park

Address: E. Donald & Idaho

Residential Commercial Industrial Other Municipal

Observations:

Golf Course - City of Waterloo

Property:

Address:

Residential Commercial Industrial Other

Observations:

Property:

Address:

Residential Commercial Industrial Other

Observations:

Property:

Address:

Residential Commercial Industrial Other

Observations:

Adjoining Properties Log

East				
Property: <u>Gates Park</u>		Address: <u>E. Donald & Idaho</u>		
Residential	Commercial	Industrial	Other <u>Municipal</u>	X
Observations:				
<u>City of Watendo Municipal Golf Course</u>				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				

US EPA ARCHIVE DOCUMENT

Adjoining Properties Log

South				
Property: Chicago Central Railroad		Address: E. 1 st St		
Residential	Commercial	Industrial	Other	<input checked="" type="checkbox"/>
Observations: Staining along tracks				
Property: Gates Park		Address:		
Residential	Commercial	Industrial	Other	Municipal <input checked="" type="checkbox"/>
Observations:				
Property: City R.O.W.		Address: Arlington St.		
Residential	Commercial	Industrial	Other	Municipal <input checked="" type="checkbox"/>
Observations:				
Property: Dwellings		Address: Arlington		
Residential	<input checked="" type="checkbox"/> Commercial	Industrial	Other	
Observations:				

Adjoining Properties Log

Southwest

Property: Chicago Central
Railroad

Address: E. 4th Street

Residential | Commercial | Industrial | Other _____

Observations:

staining along tracks

Property: City R.O.W

Address: E. 4th St.

Residential | Commercial | Industrial | Other Municipal

Observations:

Property: Dwellings

Address: E. 4th St.

Residential | Commercial | Industrial | Other _____

Observations:

Property:

Address:

Residential | Commercial | Industrial | Other _____

Observations:

Adjoining Properties Log

West				
Property: <u>City R.O.W.</u>		Address: <u>E. 4th St.</u>		
Residential	Commercial	Industrial	Other <u>Municipal</u>	<input checked="" type="checkbox"/>
Observations:				
Property: <u>Dwellings</u>		Address: <u>E. 4th St.</u>		
Residential <input checked="" type="checkbox"/>	Commercial	Industrial	Other _____	
Observations:				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				
Property:		Address:		
Residential	Commercial	Industrial	Other _____	
Observations:				

US EPA ARCHIVE DOCUMENT

ASTM Based Field Checklist				
Question	Yes	No	Unk.	Com.
1. Is the property or any of the adjoining property used for industrial use?	X			
2. To the best of your knowledge, has the property been used for an industrial use in the past [before current use]?	X			
3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?		X		
4. To the best of your knowledge has the property or any adjoining property been used in the past as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	X			
5. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, or paints, or other chemicals in individual containers of greater than 5 gallons (19 Liters) in volume or 50 gallons (190 Liters) in the aggregate, stored on or used at the property or at the facility?	X			
6. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallons (208 Liters)) or sacks of chemicals located on the property or at the facility?	X			
7. Has fill dirt been brought onto the property that originated from a contaminated site or that is of unknown origin?			X	
8. Are there currently, or to the best of your knowledge, have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	X			
9. Is there currently, or the best of your knowledge has there been previously, any stained soil on the property?	X			
10. Are there currently, or the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?	X			
11. Are there currently, or the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	X			
12. Are there currently, or the best of your knowledge have there been previously, any flooring, drains, or walls located in the facility that are stained by substances other than water or are emitting foul odors?	X			

Suspected fill area @ east property line
alleged buried materials

ASTM Based Field Checklist				
Question	Yes	No	Unk.	Com.
13. If the property is served by private well on non-public water system, have contaminants been identified in the well or system that exceeded guidelines applicable to the water system or has the well been designated as contaminated by any government environmental/health agency?			X	
14. Does the owner or occupant of the property have any knowledge of environmental liens or government notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?		X		
15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property?			X	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property by any owner or occupant of the property?			X	
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits, or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?		X		
18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system?	X			
19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the property?	X			
20. Is there a transformer, capacitor, or any hydraulic equipment on the property for which there are any records indicating the presence of PCBs?	X			
AUnk = Aunknown or A no response N/A = Not Applicable				

