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2007 Professional Service Firm of The Year

November 4, 2009

Mr. Roy Crossland
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**Subject: Phase I Targeted Brownfields Assessment
Waverly Yard Waste Site, Waverly, Iowa
EPA Region 7, Mini-START, Contract No. EP-S7-09-01, Task Order No. 0008
Task Monitor: Ron King, Site Assessment Team Leader**

Dear Mr. Crossland:

Seagull Environmental Technologies Inc. (Seagull) is submitting the enclosed Phase 1 Targeted Brownfields Assessment (TBA) report for the Waverly Yard Waste site located in Waverly, Iowa. The goal of the Phase I TBA is to identify recognized environmental conditions associated with the site. This Phase I TBA was completed in accordance with industry standard practice for Phase I Environmental Site Assessments.

If you have any questions or comments, please contact the project manager at (785) 760-2645.

Sincerely,

Gregory R. Dillon
Mini-START Project Manager

Hieu Q. Vu, PE
Mini-START Program Manager

Enclosures

PHASE I TARGETED BROWNFIELDS ASSESSMENT

WAVERLY YARD WASTE SITE, WAVERLY, IOWA

Mini-Superfund Technical Assessment and Response Team (Mini-START)

Contract No. EP-S7-09-01, Task Order No. 0008

Prepared For:

U.S. Environmental Protection Agency
Region 7
901 North 5th Street
Kansas City, Kansas 66101

October 30, 2009

Prepared By:

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EXECUTIVE SUMMARY

The Seagull Environmental Technologies Inc. (Seagull) Region 7 Mini-Superfund Technical Assessment and Response Team (Mini-START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of the Waverly Yard Waste site, which is a 15-acre city-owned property located in the southeast portion of Waverly, Iowa. The City of Waverly (city) applied for a Brownfields grant under EPA Region 7 for assessment of an area that includes the yard waste site targeted for development into a multi-purpose city park. Seagull conducted this Phase I TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, American Society for Testing and Materials designation E 1527-05, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule ("AAI Rule") (40 *Code of Federal Regulations* [CFR] Part 312). The purpose of the Phase 1 TBA is to identify recognized environmental conditions (REC) in association with the site, and to identify the nature of contamination and the risks posed by the contamination, if present.

The site encompasses 15 acres and is currently being used as a yard waste collection facility. The site's address is 1301 8th Street SE, which is approximately 1.2 miles southeast of downtown Waverly, Iowa. The site is accessed by 8th Street SE, which runs north and south along the west boundary of the site. The Cedar River forms the east boundary of the site. An undeveloped field adjoins the site to the north, and an agricultural field is to the south. Beyond 8th street to the west is a recreational complex with several soccer fields and a parking lot. The City of Waverly's waste water treatment plant is located south of the soccer complex, southwest of the site.

Two significant findings were identified from review of historic records, environmental database review, site reconnaissance, or interviews.

- The subject property was formerly used as the City of Waverly's solid waste landfill from 1948 to 1971. The landfill was closed in 1971, and the property was converted to its current use as a yard waste disposal facility. Historical use of the subject property as a solid waste landfill constitutes a REC to the site.
- The southeast portion of the subject property was formerly used as a shooting range from 1971 to 1999 (for pistols and rifles) by the Waverly Police department. Historical use of the subject property as a shooting range constitutes a REC to the site.

Based on the identification of those RECs, Seagull provides the following recommendations:

- Seagull recommends a Phase II TBA of the site. Soil, soil gas, and groundwater samples should be collected and analyzed for contaminants commonly associated with solid waste landfill operations and shooting ranges— including volatile organic compounds, semi-volatile organic compounds, total petroleum hydrocarbons, metals (lead in particular, associated with the shooting range), and landfill gases (methane in particular).

1.0 INTRODUCTION

The Seagull Environmental Technologies Inc. (Seagull) Region 7 Mini-Superfund Technical Assessment and Response Team (Mini-START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of the Waverly Yard Waste site, which is a 15-acre property located in the southeast portion of Waverly, Iowa. The property is owned by the City of Waverly. The Waverly Yard Waste site will hereafter be designated as the “subject property” or “site”. The address for the property is 1301 8th Street SE. The City of Waverly applied for a Brownfields grant from EPA Region 7 for assessment of the site, which is targeted for development into a park with a walking trail.

Seagull conducted this Phase I TBA of the property in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, American Society for Testing and Materials (ASTM) designation E 1527-05, and otherwise in compliance with EPA’s “All Appropriate Inquiries” Rule (AAI Rule) (40 Code of Federal Regulations [CFR] Part 312). For the purpose of this Phase I TBA, the *users* are defined as the EPA and the City of Waverly (Section 3.2.93, ASTM 2005). EPA tasked Seagull to conduct a Phase I TBA on the site to identify recognized environmental conditions (REC) associated with the property and identify the nature of contamination and the risks posed by the contamination, if present.

1.1 PURPOSE

The goal of this Phase I TBA is to identify RECs at the site. RECs are the presence or likely presence of any hazardous substances or petroleum products on a site under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the site or into the ground, groundwater, or surface water of the site. The term includes hazardous substances or petroleum products, even under conditions in compliance with laws. The term is not intended to include de minimis 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 (Section 1.1.1 E 1527-05, ASTM 2005). Historical Recognized Environmental Conditions (HREC) are environmental conditions that in the past would have been considered RECs, but that may or may not be considered RECs currently (Section 3.2.39 E 1527-05, ASTM 2005).

This Phase I TBA is intended to satisfy one of the requirements for the innocent landowner defense, the contiguous property exemption, and the bona fide prospective purchaser exemption to Comprehensive

Environmental Response, Compensation, and Liability Act (CERCLA) liability: that is, the practices that constitute “all appropriate inquiry into the previous ownership and uses of the site consistent with good customary practice,” as defined in 42 U.S. Code Section 9601 (35)(B).

1.2 SCOPE OF WORK

EPA developed a Statement of Work for Phase I TBA activities to be performed at the site. The scope of work (SOW), based on ASTM designation E 1527-05 (see Appendix A), was to identify RECs at the site. Phase I Environmental Site Assessments (ESA) (referred to as a Phase I TBA in this report) typically are conducted in a four-phase process, including: (1) records review; (2) site reconnaissance; (3) interviews with current and previous owners and occupants of the site, adjacent property owners and occupants, and local government agencies; and (4) preparation of a report. Section 11.0 lists sources referenced during this investigation.

Any items listed in the ASTM standard that the report does not specifically identify as present can be assumed not present within the site or within such distance to the site as to be of potential concern to the site. Any item mentioned but not specifically identified as a REC can be assumed not a REC. A Brownfields Property Profile form that has been created for the site is included in Appendix A.

1.3 SIGNIFICANT ASSUMPTIONS

The following are beyond the scope of this evaluation: sampling and analysis for asbestos, lead-based paint, radon, and lead in water, soil, and groundwater; evaluations of air quality, regulatory compliance, industrial hygiene, and noise impacts; and identification of geological or geotechnical hazards.

1.4 DEVIATIONS

One deviation from ASTM E 1527-05 was noted for this Phase I TBA. The Seagull Environmental Professional (EP) has conducted an analysis of the data gaps or failures resulting from this deviation, and assessed impacts of these on Seagull’s ability to render an opinion regarding conditions indicative of releases or threatened releases of petroleum products or hazardous substances. A summary of that assessment follows.

- Time gaps of more than 5 years were present in available historical information. Historical documents were reviewed for 1963, 1972, 1983, 1990, 1994, and 2005. Given the consistent observed use of the subject property in the historic information reviewed, it is not necessary to review additional time periods, and the lack of information for all 5-year-or-less intervals is not considered data failure.

1.5 LIMITATIONS AND EXCEPTIONS

This report was based partially on information supplied to Seagull from outside sources and on other information available in the public domain. The conclusions and opinions reported herein are based on the information Seagull obtained in compiling the report. This information is on file at Seagull's office in Overland Park, Kansas. Seagull makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. Seagull does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of the client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

1.6 SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions for the Phase I TBA.

1.7 STATEMENT OF USER RELIANCE

Seagull is not required to verify independently the information provided to it by the user or gathered throughout the course of this Phase I TBA. For this Phase I TBA, Seagull may rely on information provided unless actual knowledge is possessed that certain information is incorrect based on information obtained during the Phase I TBA or otherwise actually known by the person preparing this report.

2.0 SITE DESCRIPTION

This section provides a brief description of the site and the physical setting based on information obtained from EPA Region 7, the City of Waverly, and a records review conducted prior to the site reconnaissance. Observations during the site reconnaissance regarding current land use of the site and adjoining facilities are described in Section 4.0.

2.1 SITE LOCATION AND LEGAL DESCRIPTION

The site is located approximately 1.2 miles southeast of downtown Waverly, Bremer County, Iowa. The site address is 1301 8th Street SE. The site is accessed by 8th Street SE, which runs north and south along the west boundary of the site. The Cedar River forms the east boundary of the site.

The site is included on the Waverly, Iowa, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 1993) (see Appendix B, Figure 1). The site is located in the northeastern quarter of Section 11, Township 91 North, Range 14 West. The coordinates for the approximate center of the site are 42.712141 degrees north latitude and 96.459050 degrees west longitude.

2.2 SITE VICINITY GENERAL CHARACTERISTICS

The site is located southeast of downtown Waverly and lies within the Cedar River floodplain. The south and east portions of the site are covered by wooded vegetation. The west and central portions of the site are generally covered by gravel (to enable vehicles to access yard waste disposal and composting areas) or are covered with grass.

2.3 CURRENT AND PAST USES OF THE SITE

The site was formerly used as the City of Waverly's solid waste landfill from 1948 to 1971. The landfill was closed in 1971, and the property was converted to its current use as a yard waste disposal facility. In addition, from 1971 to 1999, the southeast portion of the property was also used as a shooting range (for pistols and rifles) by the Waverly Police Department.

2.4 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

The site is secured by a gate that is kept locked during non-business hours. A fence is located on the west, north and south sides of the site. Access into the site is from a gravel road off of 8th Street SE. The west and central portions of the site are generally covered by gravel or grass. One building that is approximately 100 square feet in size is located at the site. This building is used as an office by the yard waste attendant. The only utility present at the site is an electrical line that runs underground from 8th Street SE to a power pole located adjacent to the yard waste attendant's building. Electrical power extends from the power pole overhead to the attendant's building.

2.5 CURRENT AND PAST USES OF ADJOINING/SURROUNDING PROPERTIES

Adjacent properties include an undeveloped field to the north and an agricultural field to the south. The Cedar River borders the site to the east. The site is bounded to the west by 8th Street SE. West of the site, beyond 8th Street SE, is a soccer complex with numerous fields and a gravel parking lot. South of the soccer complex is the City of Waverly's waste water treatment plant (see Appendix B, Figure 2)

2.6 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS

The following sections describe the environmental setting of the site and surrounding area.

2.6.1 Topography

Based on a recent topographic map, the site is approximately 900 feet above mean sea level (amsl). The topographic gradient at the site is to the east-southeast. The west side of the site is higher in elevation, which may be due to soil cover that has been placed over former landfill-related debris/waste in that area.

2.6.2 Geologic Setting

The site is located in Bremer County in northeast Iowa, in the Central Lowland physiographic province of the Interior Plains. The majority of the site contains soils characterized as Udorthents, which are moderately well drained. Udorthents soils are typically associated with areas of cut and fill, including sanitary landfills. Other soils present at the site are Waukee loam and Dickinson fine sandy loam (U.S. Department of Agriculture [USDA] 2009). Dickinson fine sandy loam, a very deep, well drained soil formed in glacial and alluvial deposits, is predominantly located on the southeastern portion of the site. Waukee loam, a very deep, well drained silt loam, is predominantly located in the southwestern portion of the site (USDA 2009). Geology in the region is generally characterized by unconsolidated alluvial deposits throughout the Cedar River floodplain. These deposits overlie Devonian-aged bedrock of the Cedar Valley Group, which consists primarily of dolomite, limestone, and chert (Iowa Department of Natural Resources [IDNR] 1998). Depth to bedrock at the site is approximately 50 feet below ground surface (bgs) (Iowa Department of Natural Resources [IDNR] 1998).

2.6.3 Hydrogeology

The site is located in the Northeast Iowa Groundwater Province, where the Silurian-Devonian aquifer, in particular, the area along the Cedar River valley, is one of the most productive zones of any bedrock

aquifer in Iowa (IDNR 1998). This area is underlain by highly creviced and cavernous Devonian limestone, which provides a great resource for recharge to the aquifer.

Regional flow of the Silurian-Devonian aquifer is to the southeast. Because the site lies within the Cedar River floodplain, groundwater flow in the area also likely flows to the south-southeast, following the flow of the river. In 2002, depth to groundwater in an irrigation well drilled at the soccer complex west of the site (across 8th Street SE) was 22 feet bgs (IDNR 2009). Total depth of that well is 115 feet bgs.

Environmental Data Resources (EDR) searched database listings for properties within 1 mile of the site and extracted no data on groundwater flow and velocity (EDR 2009a). Based on information provided by EDR, a water well database search determined two water wells owned by USGS (for groundwater observation) are listed within a 1-mile radius of the site. No public water supply wells are listed within the search radius. In addition, a state database lists 113 wells (including both private domestic wells, monitoring wells, and abandoned wells) that are also within that 1-mile area (EDR 2009a).

2.6.4 Hydrology

Surface water either infiltrates into the ground at the site or flows southeast towards a low-lying drainage way along the west and south boundary of the site. This drainage way flows east to the Cedar River, which borders the site to the east.

3.0 USER-PROVIDED INFORMATION

The following section summarizes information provided by EPA Region 7 and the City of Waverly (the users) with regard to the Phase I TBA. A copy of a user questionnaire completed by the City of Waverly is included as Appendix C.

3.1 EXISTING INFORMATION AND DRAWINGS

No drawings that might provide information related to past activities at the site were provided by the users.

3.2 SUMMARY OF TITLE INFORMATION

No title records for the site were provided by the users. Seagull contracted Bremer County Abstract Company, Inc., to search publicly available records at the Bremer County Courthouse to obtain information about ownership of the site (see Appendix D). Title records indicate the City of Waverly obtained the subject property in 1923.

3.3 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The City of Waverly was unaware of any information regarding environmental liens or activity and use limitations for the subject property, and no indications of environmental liens or activity and use limitations were noted in the title information provided by the Bremer County Abstract Company.

3.4 SPECIALIZED KNOWLEDGE

No previous Phase I or II environmental reports were provided by the users.

3.5 OWNER, SITE MANAGER, AND OCCUPANT INFORMATION

The property is owned by the City of Waverly and is operated as a yard waste collection site for city residents.

3.6 REASON FOR PERFORMING PHASE I TBA

This Phase I TBA was requested by the City of Waverly to provide an environmental assessment of the site for future recreational development by the city.

4.0 SITE RECONNAISSANCE

A site reconnaissance was conducted on September 1, 2009, by Seagull Team Member Jeff Pritchard. Photographic documentation from the site reconnaissance is included in Appendix E.

4.1 METHODOLOGY AND LIMITING CONDITIONS

The site reconnaissance consisted of a visual inspection of the site in accordance with requirements set forth in 40 CFR Part 312, and observations of the perimeter area were noted to assess the presence of environmental concerns. Access was available to all areas of the site. Seagull interviewed Mr. Cherry, Engineer for the City of Waverly, regarding current and past uses of the site (see Section 5.1).

4.2 GENERAL SITE SETTING

The following sections describe the site's current and past uses.

4.2.1 Site Description

The site encompasses 15 acres and is currently being used as a yard waste disposal facility. The site address is 1301 8th Street SE, which is located in the southeast portion of Waverly, Iowa. The site can be accessed by taking 8th Street to 1301 8th Street SE. Adjoining properties to the site include an undeveloped field to the north and an agricultural field to the south. East of the site is the Cedar River.

Beyond 8th street to the west is a parking lot and soccer fields and the City of Waverly's waste water treatment plant.

4.2.2 Current and Past Site Uses

The site is currently used as a yard waste collection site for the city and its residents. Yard waste collected at the site is composted and made available for use by city residents. In addition, the facility collects household "white goods" and electronic appliances for recycling. These items are staged at the facility to await pickup by a recycling company contracted by the city. The site was formerly used as the City of Waverly's solid waste landfill from 1948 to 1971. The landfill was closed in 1971, and the property was converted to its current use as a yard waste disposal facility. It has been reported that the majority of solid waste transported to the site was burned, so only a small volume of solid waste is thought to have been buried at the site. In addition, from 1971 to 1999, the southeast portion of the property was also used as a shooting range (for pistols and rifles) by the Waverly Police Department.

4.3 SPECIFIC RECONNAISSANCE ITEMS

The following sections summarize observations during the reconnaissance.

4.3.1 Hazardous Substances and Petroleum Products

Some household appliances staged at the site contain Freon; however, a recycling contractor for the city routinely picks up those appliances for proper recovery of the Freon and recycling of salvageable parts. No other hazardous substances or petroleum products were found or known to be stored at the site.

4.3.2 Hazardous Waste

No hazardous waste was found or has been known to have been present on the site.

4.3.3 Landfills, Dumps, Burials, or Solid Waste Disposal

The site was a solid waste landfill from 1948 until 1971. In 1971 the landfill stopped accepting solid waste and was converted to its current use as a yard waste collection site.

4.3.4 Storage Tanks

Underground Storage Tanks

No indications of underground storage tanks were observed on the site or within the immediate vicinity of the property.

Aboveground Storage Tanks

No visual evidence of past or present on-site aboveground storage tanks—including pipes, pumps, or stains—was apparent during the site reconnaissance.

4.3.5 Polychlorinated Biphenyls-containing Equipment

No transformers or other equipment potentially containing polychlorinated biphenyls (PCB) were observed at the site.

4.3.6 Heating, Ventilation, and Air Conditioning System and Fuel Source

No evidence of a heating, ventilation, and air conditioning system or petroleum-based heating fuel source was observed on the site.

4.3.7 Drains, Sumps, Pools of Liquids, Standing Water, Cisterns, and Cesspools

A surface water drainage way was observed along the west and south side's of the property. This drainage way flows east to the Cedar River, which borders the site to the east.

4.3.8 Pits, Ponds, and Lagoons

No evidence of any pits, ponds, or lagoons was observed during the site reconnaissance.

4.3.9 Stains or Corrosion and Stained Soil or Pavement

No evidence of stains, corrosion, or stained soil or pavement was observed during the site reconnaissance.

4.3.10 Areas of Dead, Distressed, Discolored, or Stained Vegetation

No areas of dead, distressed, discolored, or stained vegetation that may indicate RECs were observed on the site.

4.3.11 Possible Fill, Grading, or Solid Waste Disposal

The site was a solid waste landfill from 1948 until 1971. In 1971 the landfill stopped accepting solid waste and was converted to its current use as a yard waste collection site. The west side of the site is higher in elevation, which may be a result of landfill cover placed in that area. A soil berm exists along the east boundary of the site that was used as part of the shooting range. Large items of solid waste (automobile frames) are currently located along this berm.

4.3.12 Smells of Chemical Gases, Petroleum Products, or Noxious Odors

During the reconnaissance, only odors related to the yard waste composting process were observed.

4.3.13 Wastewater and Stormwater Systems and Discharges

The outfall from the waste water treatment plant runs through a culvert beneath the drainage way located on the south side of the property. The outfall flows into the Cedar River.

4.3.14 Wells and Potable Water Supply

No dry, irrigation, injection, abandoned, or other wells were observed on the site.

4.3.15 Utilities

The only utility present at the site is an electrical line that runs underground from 8th Street SE to a power pole located adjacent to the yard waste attendant's building. Electrical power extends from the power pole overhead to the attendant's building.

4.3.16 Other Site-specific Environmental Conditions

No other site-specific environmental conditions were noted during the site reconnaissance.

4.4 VICINITY RECONNAISSANCE

Seagull surveyed the surrounding areas and conducted visual inspections from public roads during the Phase I TBA activities. Adjoining properties to the site include an undeveloped field to the north and an agricultural field to the south. East of the site is the Cedar River. Beyond 8th Street to the west is a parking lot and soccer fields and the City of Waverly's waste water treatment plant. None of the adjacent properties poses a REC to the subject property.

5.0 INTERVIEWS

The objective of conducting interviews is to obtain information concerning RECs in connection with the site. This information was obtained verbally, as indicated below. Interviewees were cooperative and forthcoming with information, unless otherwise specified. Information obtained during telephone interviews is included as Appendix F.

5.1 INTERVIEW WITH OWNER

Seagull interviewed Mr. Mike Cherry, Engineer for the City of Waverly, at the site on September 1, 2009. Mr. Cherry has served as the City Engineer for approximately 12 years, and included in that role is management of the yard waste site. Mr. Cherry stated that according to his knowledge, no chemical or other hazardous materials (other than Freon-containing appliances) have been stored or spilled at the site. Mr. Cherry did not know of any spills of hazardous materials that had impacted the site prior to his management of the site.

5.2 INTERVIEW WITH KEY SITE MANAGER

Mr. Cherry is considered the key site manager for this site and was interviewed as described above.

5.3 INTERVIEW WITH CURRENT OCCUPANTS

The city operates the site as a yard waste collection facility. The site is not occupied by permanent residents and not developed for occupancy.

5.4 INTERVIEW WITH PAST SITE OWNER/OCCUPANTS

No interviews were conducted with past owners of the site during this Phase I TBA.

5.5 INTERVIEW WITH LOCAL GOVERNMENT OFFICIAL

Seagull Team Member Gregory Dillon conducted a phone interview with Waverly Fire Chief Dennis Happel to determine if the fire department had responded to any hazardous material spills at the site or at any surrounding properties. Mr. Hapell stated that the fire department had not responded to the site or any surrounding properties during the past 20 years.

6.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the site.

6.1 ENVIRONMENTAL RECORDS SOURCES

The following sources of environmental records were accessed and reviewed as part of this assessment.

6.1.1 Environmental Database Search

Federal, state, regional, and local records were reviewed to assess whether any unauthorized releases of hazardous substances or other events with potentially adverse environmental effects have occurred at the site or at any facility within the approximate minimum search distance. EDR performed a database search of the site in accordance with ASTM E 1527-05 (EDR 2009a). A copy of this report is included as Appendix G.

The databases searched have been developed and are updated by federal, state, and local agencies. While these databases are generally reliable and comprehensive, some out-of-date data no longer reflecting actual site conditions may be encountered. The Government Records Searched/Data Currency Tracking section of the EDR report in Appendix G identifies when each database was updated.

A review of the facilities listed within the EDR Radius Map with GeoCheck[®] report was conducted (EDR 2009a) by Seagull and are summarized as follows.

- The site was not listed in any of the databases searched by EDR.
- One facility was identified within the ASTM-required search radius.
 - The City of Waverly's waste water treatment plant, located at 1401 8th Street SE, is identified in two databases - the State and Tribal List of Underground Storage Tanks (UST), and Local Lists of Registered Underground Storage Tanks (HIST UST). This facility is located within 0.125 mile west- southwest (upgradient) of the site. The HIST UST database report indicates a 4,050-gallon UST was removed from the property in 1988. The facility's listing in the UST and HIST UST database does not pose a REC to the subject property.
- The EDR report identified 26 "orphan" facilities (many were duplicated), which, because of poor or inadequate address information, could not be mapped by EDR. However, based on site reconnaissance observations and information obtained from database research and on-line mapping resources, it was determined that none of these "orphan" sites pose a REC to the subject property. That determination was based on their crossgradient or downgradient locations to the subject property, current regulatory site status (no further action required), or the fact they are located outside the approximate minimum search distance to the subject property.

6.1.2 Valuation Reduction for Environmental Issues

The City of Waverly provided no information regarding valuation reduction for environmental issues associated with the site, other than indicating that the subject property was historically used as a solid waste landfill and shooting range.

6.1.3 Engineering and Institutional Controls

As part of the environmental records search performed by EDR, federal databases for institutional and engineering controls were searched, and no such record information was reported.

6.1.4 Title Records

Seagull contracted Bremer County Abstract Company to perform a search of title records for the subject property to identify historic RECs. Bremer County Abstract Company searched publicly available records at the Bremer County Courthouse. No RECs were identified as a result of this search. Appendix D contains property and legal description information.

6.2 DEVIATIONS

No deviations were noted from ASTM E 1527-05 or the EPA SOW-required review of environmental record sources.

6.3 HISTORICAL USE INFORMATION FOR THE SITE AND ADJOINING PROPERTIES

Historical data regarding the site and surrounding area were gathered to determine past uses and evaluate visible environmental issues that may pose RECs. The following sections describe aerial photographs, Sanborn® maps, and topographic maps that were available for the site. Historical use documentation referenced in the following sections is included as Appendix H.

6.3.1 Aerial Photographs

Historic aerial photographs of the site for the years 1972, 1983, 1990, 1994, and 2005 were obtained from EDR (EDR 2009b). The review of these aerial photographs is summarized below:

YEAR	COMMENTS
1972	<p>Site: The aerial photograph's quality is poor; however, the site is slightly legible. The west side of the site appears disturbed, while the east side along the Cedar River appears wooded.</p> <p>Surrounding Area: The area immediately surrounding the site appears undeveloped and likely used for agricultural purposes.</p>
1983	<p>Site: Due to the poor quality of the aerial photograph, site observations cannot be accurately made.</p> <p>Surrounding Area: Due to the poor quality of the aerial photograph, site observations cannot be accurately made.</p>
1990	<p>Site: The aerial photograph's quality is poor; however, the site is slightly legible. The west side of the site appears disturbed.</p> <p>Surrounding Area: The area immediately surrounding the site appears undeveloped and likely used for agricultural purposes. In addition, the City of Waverly's waste water treatment plant is observed southwest of the subject property.</p>
1994	<p>Site: The site appears to resemble its current condition. A gravel road enters the site from 8th Street SE. The west side of the site appears disturbed, while the east sides along the Cedar River appears wooded.</p> <p>Surrounding Area: The area immediately surrounding the site appears undeveloped and likely used for agricultural purposes. In addition, the City of Waverly's waste water treatment plant is observed southwest of the subject property.</p>
2005	<p>Site: The site appears to resemble its current condition. A gravel road enters the site from 8th Street SE. The west side of the site appears disturbed, while the east and south sides of the property appear wooded. Compost rows are visible in the center of the site.</p> <p>Surrounding Area: The areas immediately north and south of the site appear undeveloped. The athletic recreation complex (soccer fields) is observed west of the site, across 8th Street SE. The City of Waverly waste water treatment plant is located southwest of the subject property. In addition, a golf course and residential development are observed further southwest of the site.</p>

Review of the aerial photographs identified no RECs on or adjacent to the site.

6.3.2 Sanborn® Map Report

A search for Sanborn® maps was conducted by EDR; however, no Sanborn® maps were available for the subject property (EDR 2009c).

6.3.3 Historical Topographic Maps

Seagull reviewed historical topographic maps for the Waverly, Iowa, quadrangle from 1963 and 1972 (EDR 2009d) for information regarding past uses of the site. The site appears to remain unchanged

throughout the observed timeline. Significant developments noted in the area during this period the industrial developments to the east-northeast. No RECs were identified from review of the topographic maps.

7.0 FINDINGS

Two significant findings were identified from review of historic records, environmental database review, site reconnaissance, or interviews.

- The subject property was formerly used as the City of Waverly's solid waste landfill from 1948 to 1971. The landfill was closed in 1971, and the property was converted to its current use as a yard waste disposal facility. Historical use of the subject property as a solid waste landfill constitutes a REC to the site.
- The subject property was formerly used as a shooting range from 1971 to 1999 (for pistols and rifles) by the Waverly Police department. Historical use of the subject property as a shooting range constitutes a REC to the site.

8.0 OPINIONS

Two RECs to the site, described in Section 7.0, has been identified from this Phase I TBA. The historical uses of the site as a solid waste landfill from 1948 to 1971 and a shooting range from 1971 to 1999 were identified through records review and interviews.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Seagull has performed a Phase I TBA in conformance with the scope and limitations of ASTM Practice E 1527-05 for the Waverly Yard Waste site in Waverly, Iowa. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. Based on available information, this assessment has revealed evidence of two RECs associated with the site, as described in Sections 7.0 and 8.0. Based on the identification of those RECs, Seagull provides the following recommendations:

- Seagull recommends a Phase II TBA of the site. Soil, soil gas, and groundwater samples should be collected and analyzed for contaminants commonly associated with solid waste landfill operations and shooting ranges— including volatile organic compounds, semi-volatile organic compounds, total petroleum hydrocarbons, metals (lead in particular associated with the shooting range), and landfill gases (methane in particular).

10.0 CERTIFICATION STATEMENT

Resumes of the site assessor who prepared the report, and the Environmental Professional who completed the site reconnaissance and oversaw completion of the report, are provided in Appendix I. We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the site addressed in this report. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312, and attest to the completeness and accuracy of the information contained in this report.

If you have any questions concerning the findings and conclusions contained in this report, please call Site Assessor Greg Dillon at (785) 760-2645, or Environmental Professional Jeff Pritchard at (816) 412-1937.

Site Assessor



Gregory R. Dillon
Mini-START Environmental Scientist

Environmental Professional



Jeff Pritchard, CHMM
Mini-START Senior Environmental Scientist

11.0 REFERENCES

- American Society for Testing and Materials International (ASTM). 2005. Standard Practice of Environmental Site Assessments: Phase I Environmental Site Assessment Process: E1527-05.
- Environmental Data Resources, Inc. (EDR).
2009a. Radius Map with GeoCheck©. August 27.
2009b. Historic Aerial Photograph Report. September 3.
2009c. Sanborn® Map Report. August 27.
2009d. Historical Topographic Map Report. August 27.
- Iowa Department of Natural Resources (IDNR).
1998. Bedrock Geologic Map of Iowa
2009. Iowa GEOSAM Website. Accessed October 1, 2009. On-line address:
<http://igib.iowa.edu/webapps/geosam>
- U.S. Department of Agriculture (USDA). 2009. Soil Survey of Bremer County, Iowa. Accessed on September 22, 2009. On-line address:
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- U.S. Geological Survey (USGS). 1993. Waverly, Iowa, Quadrangle, 7.5-minute Topographic Series.

APPENDIX A

SCOPE OF WORK AND BROWNFIELDS PROPERTY PROFILE FORM

8(a) Mini-START Task Order
Contract No. EP-S7-09-01
Seagull Environmental

Waverly Yard Waste Site
Waverly, Nebraska

Phase I and Phase II Targeted Brownfields Assessment
With Cleanup Planning

I. Site History

The site is located at 1301 8th Street SE, Waverly Iowa. The property has been a city owned shooting range. Since then it has been converted into a city dumping area for yard waste. The City of Waverly is planning to turn this 15 acre property into a public open area with a natural setting while leaving options open for future campground use.

The past and present uses of this property are from 1948 to 1971 it was used as a municipal solid waste landfill, 1971 to present it is being used to place municipal yard waste, and 1971 to 1999 it was used as a police department shooting range. There is an approximate 100 square foot building on site that is being used as a shelter for the yard waste attendant.

II. Objective and Scope

The objectives of a Targeted Brownfield Assessments (i.e., Environmental Site Assessment) are to identify the nature and extent of contamination on-site and the risks posed by the contamination. The Environmental Site Assessment (ESA) in Region 7 is performed in conformance with the following:

- “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, “ ASTM, E1527-05;
- “All Appropriate Inquiry” Final Rule, 40 C.F.R. Part 312;
- “Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, “ ASTM, E 1903-97; and
- “Generic Quality Assurance Project Plan for the Superfund Integrated Site Assessment and Targeted Brownfields Assessment Programs,” EPA-Region VII, Superfund Division, July 2007

The purpose of the Phase I ESA is to identify recognized environmental conditions in connection with the property. The Phase I ESA shall have the following components: 1) records review, 2) site reconnaissance, 3) interviews, and 4) report.

The primary objectives of conducting a Phase II ESA are to evaluate the recognized environmental conditions identified in the Phase I ESA for the purpose of providing sufficient information regarding the nature and extent of contamination to

assist in making informed business decisions about the property; and where applicable, providing the level of knowledge necessary to satisfy the innocent purchaser defense under CERCLA. The Phase II ESA shall have the following components: 1) developing the scope of work, 2) assessment activities, 3) evaluation and presentation of data, and 4) presentation of findings and conclusions.

III. General Task Requirements

For the purpose of this Performance Work Statement (PWS), the words, "The contractor shall" means that the contractor will, in accordance with applicable laws, regulations, guidance and policies, furnish fully trained personnel, services, materials, equipment, property, facilities, knowledge, and expertise to successfully complete the tasks required under this SOW. The contractor shall ensure that any and all services or products shall be delivered and provided under this contract in compliance with all applicable Federal, state, and local laws, regulations, guidance and policies and any changes to those laws which become effective after the effective date of this contract.

In conducting this work the EPA expects the contractor to propose the most appropriate and cost-effective procedures and methodologies using accepted engineering practices and controls. Throughout the performance on this task order, the Contractor will be responsible for performing services and providing products using the most cost-effective mix of qualified personnel applicable to meet the needs of the PWS.

IV. Task Order

An application has been submitted by City of Waverly, Iowa to conduct a Phase I and Phase II Environmental Site Assessment with Cleanup Planning for the Waverly Yard Waste Site. A copy of this application is attached to this SOW.

The contractor shall follow EPA guidance and the Industry Standards for conducting these assessments and includes the follow tasks.

1. Review of the EPA Targeted Brownfields Assessment application form prepared by the City of Waverly, Iowa. This application was used in the development of this Statement of Work. A copy of the application is attached to this statement of work.
2. After initial discussion with the EPA Task Order Manager, the contractor will contact the City of Waverly's contact person – Mr. Mike Cherry.
3. Complete a Phase I Environmental Site Assessment and the report.
4. Prepare a Quality Assurance Project Plan (QAPP). As part of this task order, the contractor will obtain the services of a qualified laboratory for all analysis.
5. The components of Subpart C-Standards and Practices in the All Appropriate

Inquiry Final Rule, 40 C.F.R. Part 312 will be met.

6. Complete a Phase II Environmental Site Assessment and the report, which will include a cleanup plan for proper material disposal.
7. Prepare a Brownfields Property Profile Form.

V. Period of Performance

Period of Performance (POP) is March 30, 2010.

VI. Schedule of Deliverables

The Phase I ESA report due date is based on the degree of work needed to complete a Phase I ESA. If during the completion of the Phase I ESA the contractor determines there are no Recognized Environmental Conditions associated with this site, the contractor will bring this to the attention of the Task Order Manager and Project Officer. The Task Order Manager may decide that no further tasks under this task order needs to be performed.

VII. EPA Contacts

Task Order Manager:

Ronald King
913-551-7568

Project Officer (PO):

Roy Crossland
913-551-7965

Contracting Officer (CO):

Anthony Lamaster
913-551-7228



U. S. ENVIRONMENTAL PROTECTION AGENCY, REGION 7
TARGETED BROWNFIELDS ASSESSMENT APPLICATION FORM

Use only for Properties within Region
Iowa, Kansas, Missouri, Nebraska, and Tribal Lands bordered by these states

APPLICANT: City of Waverly ADDRESS: 200 1st Street NE (P.O. Box 616) CITY: Waverly CONTACT PERSON: Mike Cherry			STATE: Iowa PHONE: 319-352-9065	ZIP: 50677
PROPERTY NAME: Waverly Yard Waste Site PROPERTY ADDRESS: 1301 8th Street SE CITY: Waverly			COUNTY: Bremer	STATE: IA ZIP: 50677
CURRENT PROPERTY OWNER NAME (if different from above): ADDRESS: CITY: STATE: ZIP: PHONE:				
IF PROPERTY IS OWNED BY APPLICANT, DID APPLICANT OBTAIN THE PROPERTY THROUGH: <input type="checkbox"/> FORECLOSURE <input checked="" type="checkbox"/> PURCHASE <input type="checkbox"/> OTHER (SPECIFY): _____ DATE PROPERTY OBTAINED: <u>08/01/1923</u>				
IF PROPERTY IS NOT OWNED BY APPLICANT, WILL APPLICANT OBTAIN THE PROPERTY THROUGH: <input type="checkbox"/> FORECLOSURE <input type="checkbox"/> PURCHASE <input type="checkbox"/> OTHER (SPECIFY): _____				
IF PROPERTY IS NOT OWNED BY APPLICANT, WILL APPLICANT BE ABLE TO OBTAIN LEGAL PERMISSION FOR EPA OR EPA'S REPRESENTATIVES TO ENTER THE PROPERTY TO CONDUCT SITE ASSESSMENT ACTIVITIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO EXPLAIN:				
IS THERE ANY REASON TO BELIEVE THE PROPERTY IS CONTAMINATED WITH: <input checked="" type="checkbox"/> CERCLA-RELATED HAZARDOUS SUBSTANCES <input type="checkbox"/> PETROLEUM <input type="checkbox"/> CONTROLLED SUBSTANCES, OR IS <input type="checkbox"/> MINE-SCARRED LAND? <input checked="" type="checkbox"/> YES (describe below) <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN <i>(hazardous substances as defined in 40 CFR Part 30, e.g., solvents, pesticides, creosote, metals (lead, mercury, arsenic, etc.), dry cleaning products; controlled substances as defined under the Controlled Substances Act, e.g., methamphetamines, other illegal drugs)</i> Lead from Police Department shooting range				
IF PROPERTY IS OWNED BY APPLICANT, DID APPLICANT (1) GENERATE OR DISPOSE OF ANY OF THE CONTAMINANTS? <input checked="" type="checkbox"/> YES (describe below) <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN (2) OWN THE PROPERTY WHEN CONTAMINATION OCCURRED? <input checked="" type="checkbox"/> YES (describe below) <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN REGARDLESS OF PROPERTY OWNERSHIP, IS APPLICANT AWARE OF ANY FEDERAL, STATE, OR LOCAL AGENCY INQUIRY OR ORDER REGARDING ANY PARTY'S RESPONSIBILITY FOR CONTAMINATION OR HAZARDOUS WASTE AT THE PROPERTY? <input type="checkbox"/> YES (describe below) <input checked="" type="checkbox"/> NO				
BRIEFLY DESCRIBE INVOLVEMENT / ROLE OF AGENCY IN ENFORCEMENT AND / OR OVERSIGHT OF THE INQUIRY OR ORDER:				

PROPERTY ZONING (attach site map, if available):		TOTAL ACREAGE OF PROPERTY:
U-1		15 acres
PAST PROPERTY USES (type of manufacturing, etc.):		APPROXIMATE DATES:
Municipal Solid Waste Landfill		1948-1971
Municipal Yard Waste Site		1971-Present
Police Department Shooting Range		1971-1999
BUILDINGS ON PROPERTY	SQUARE FOOTAGE	CONDITION (usable, gutted, razed, etc.)
Shelter for Yard Waste Attendant	~100 SF	Usable
PRIOR PROPERTY/SITE ASSESSMENT ACTIVITIES: <input type="checkbox"/> COMPLETED <input type="checkbox"/> NONE <input checked="" type="checkbox"/> UNKNOWN DESCRIBE CONCLUSIONS OF PRIOR SITE ASSESSMENT ACTIVITIES (or attach "conclusion" section of report(s)):		
IF REPORTS ARE UNAVAILABLE, IDENTIFY CONSULTANT, CLIENT, AND APPROXIMATE DATE OF STUDY:		
PROPERTY/SITE ASSESSMENT NEEDS DESCRIBE DIFFICULTIES RELATED TO PERCEIVED CONTAMINATION THAT HAVE HINDERED REUSE OF THE PROPERTY: N/A		
ANTICIPATED FUTURE USE: <input type="checkbox"/> RESIDENTIAL <input checked="" type="checkbox"/> RECREATIONAL <input type="checkbox"/> COMMERCIAL/RETAIL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER (SPECIFY): DESCRIBE APPLICANT'S PROPOSED REUSE PLAN: Close Yard Waste Site at end of 2009. Convert land to a multi-purpose city park.		
DESCRIBE ANY FINANCIAL INCENTIVES PLANNED TO SPUR DEVELOPMENT AND/OR CLEANUP AND PROPOSED FUNDING SOURCES (tax incentives, etc.): <i>(EPA's BTA program is for site assessment only; cleanup money is not being offered as part of this program.)</i> Plan to apply for Iowa DNR REAP funding to convert Yard Waste facility to a city park.		
DESCRIBE PUBLIC INTEREST AND / OR COMMUNITY INVOLVEMENT IN PROPERTY REUSE PLANNING: Leisure Services Commission and City Council will review and approve Iowa DNR REAP application and intended use.		
SUBMIT COMPLETED FORMS TO: Ronald King, Brownfields Targeted Assessment Program Mail Code: SUPR/ERNB U. S. Environmental Protection Agency - Region 7 901 North 5 th Street Kansas City, Kansas 66101		
REVISED: 3/15/08		



**United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460**

Form Approved
OMB Number No. 2050-0192
Expires 07-31-2012

PROPERTY PROFILE FORM—Brownfields

Public reporting burden for this collection of information is estimated to average 1.50 hours per response, including the time for reviewing instructions, searching data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any other aspect of this collection of information, including suggestions for reducing this burden, to the Environmental Protection Agency, Office of Environmental Information, Code 2822T, Washington, DC 20460 and to the Paperwork Reduction Project, Office of Management and Budget, Washington, DC 20503. DO NOT RETURN your form to either of these addresses. Send your completed form to the address provided by the issuing office.

PART I- PROPERTY INFORMATION

COOPERATIVE AGREEMENT RECIPIENT INFORMATION

1. Cooperative Agreement Recipient Name (State/Tribe for Section 128(a) Cooperative Agreements; requestor/contractor for TBAs):

City of Waverly

2. Cooperative Agreement Number (contract number for TBAs):

EP-S7-09-01

3. What type of cooperative agreement funding is being used for this property?

- Assessment Section 128(a) – State and Tribal Response
 Revolving Loan Fund TBA (EPA Regions Only)
 Cleanup

4. For Assessment, Cleanup, and Revolving Loan Fund cooperative agreements, what type of funding is being used at this property?

- Hazardous Substance Petroleum Both

5a. Indicate if this form is the initial or Updated Form:

- Initial Form Updated Form

5b. If "Updated Form," what's the ACRES Property ID?

PROPERTY BACKGROUND INFORMATION

6. Property Name: Waverly Yard Waste Site

7a. Street Address: 1301 8th Street SE

7b. City: Waverly

7c. County: Bremer **7d. State:** IA

7e. Zip code: 50677

8. Size (in acres): 15.00

9. Parcel Number(s):

STATE & TRIBAL BROWNFIELDS/VOLUNTARY RESPONSE PROGRAM INFORMATION

10. State & Tribal Program Enrollment (If the property is not enrolled in a state program, check Property Not Enrolled check box) :

Date of Enrollment: _____ ID Number (if applicable): _____

Property Not Enrolled in a State or Tribal Program

PROPERTY GEOGRAPHIC INFORMATION (EPA Brownfields Program, or its contractors, will provide complete latitude/longitude information if cooperative agreement recipients are unable)

11a. Latitude
(use 00.000000 decimal degree format):
42.712141

11b. Longitude
(use -000.000000 decimal degree format):
-96.45905

11c. Horizontal Collection Method:
GPS (Pseudo Range) Precise Position

11d. Source Map Scale Number (Only if a map/photo was used):

11e. Reference Point (e.g., Center of Facility or Station):

Center of a Facility or Station

11f. Horizontal Reference Datum (Choose one):

- NAD27-North American Datum of 1927 WGS84-World Geodetic System of 1984
 NAD83-North American Datum of 1983

PART II- ENVIRONMENTAL ACTIVITIES (continued)

INSTITUTIONAL & ENGINEERING CONTROLS INFORMATION *(mandatory for all cooperative agreement types)*

19a. Indicate whether Institutional Controls are required: Yes No Unknown

19b. If Institutional Controls were required, indicate the category (check all that apply):

- Proprietary Controls (e.g., easements, covenants) Governmental Controls (e.g., zoning, building codes)
- Informational Devices (e.g., state registries, deed notices) Enforcement/Permit Tools (e.g., permits, consent decrees)

Additional Institutional Controls Information:

Address of Data Source (URL if available): _____

19c. Indicate whether Institutional Controls in place: Yes No Date: _____

20a. Indicate whether Engineering Controls are required: Yes No Unknown

20b. If Engineering Controls were required, indicate the category (check all that apply):

- Cover Technologies (e.g., Capping) Immobilization Process (e.g., Encapsulation, In-Situ Solidification) Engineered Barriers (e.g., Slurry Walls, Sheet)
- Security (e.g., Guard, Fences) Other _____

Additional Engineering Controls Information:

Address of Data Source (URL if available): _____

20c. Indicate whether Engineering Controls in place: Yes No Date: _____

REDEVELOPMENT AND OTHER LEVERAGED ACCOMPLISHMENTS *(Mandatory for Assessment, Cleanup and RLF Cooperative Agreements; as available for State and Tribal Property Specific Activities and TBAs)*

21. Redevelopment Start Date: _____ **22.** Redevelopment Completion Date: _____

Table D- Redevelopment Leveraged Funding Detail

Source of Funding <small>(enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)</small>				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal	Local Gov't	Private/ Other		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

23. Number of Redevelopment Jobs Leveraged: _____

24. Future Use and Estimated Acreage (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential).

- Multi-story building
- Greenspace _____ 15 acres _____ sq. ft. Commercial _____ acres _____ sq. ft.
- Industrial _____ acres _____ sq. ft. Residential _____ acres _____ sq. ft.

25. Actual Acreage(s) and Type(s) of Greenspace Created: _____

PART II- ENVIRONMENTAL ACTIVITIES (continued)

ANECDOTAL PROPERTY INFORMATION (as available for all cooperative agreement types)

26. Property Highlights:

[Empty box for Property Highlights]

PROPERTY PHOTOGRAPH INFORMATION

27. Indicate whether photographs are available: Yes No 28. Indicate whether video is available: Yes No

PART III- ADDITIONAL PROPERTY INFORMATION

PROPERTY HISTORY INFORMATION

29. Property Description / History / Past Ownership:

The site is currently utilized by the City of Waverly as a yard waste disposal facility. The site was formerly used as a solid waste landfill and shooting range.

30. Predominant Past Use(s) (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential):

- Multi-story building
- Greenspace _____ acres _____ sq. ft. Commercial _____ acres _____ sq. ft.
- Residential _____ acres _____ sq. ft. Industrial 15.00 acres _____ sq. ft.

OWNERSHIP & SUPERFUND LIABILITY (Mandatory for Cleanup and RLF Cooperative Agreements)

31a. Ownership Entity:

- Government (Tribal, State, Local) Private

31b. Current Owner:

City of Waverly, Iowa

32a. During the life of the cooperative agreement, did ownership change?

- Yes No

32b. If "yes," did Superfund federal landowner liability protections factor into the ownership change?

- Yes No Unknown

PART IV- APPROVALS

33. Cooperative Agreement Recipient Project Manager

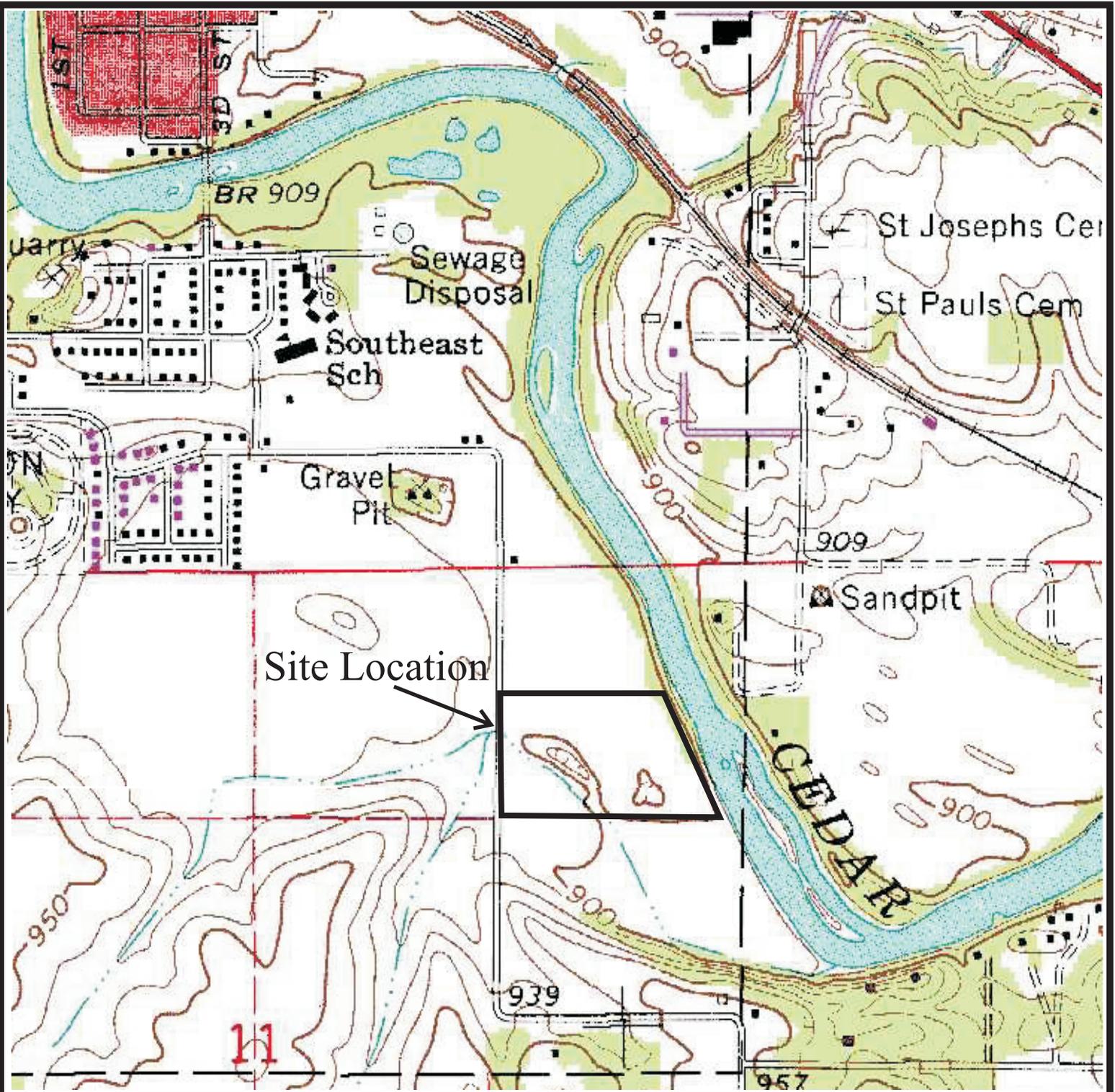
Name (please print):	Signature	Date:
<u>City of Waverly, Iowa - Mike Cherry</u>	_____	_____

34. US EPA Regional Representative

Name (please print):	Signature	Date:
_____	_____	_____

APPENDIX B

FIGURES

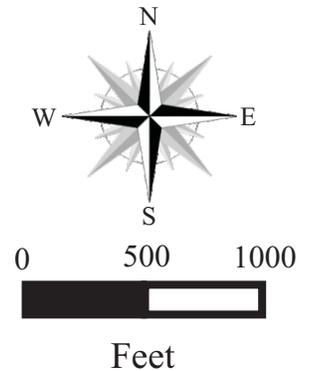


Waverly Yard Waste Site, Waverly, Iowa

Figure 1
Site Location Map



Seagull Environmental Technologies, Inc.





Waverly Yard Waste Site, Waverly, Iowa

Figure 2
Site Aerial Map



Seagull Environmental Technologies, Inc.

Date: October, 2009

Project No: EPS70901.0008

Source: USDA Farm Service Agency, Google Earth
Copyright 2009 Tele Atlas.

APPENDIX C
USER-PROVIDED INFORMATION

User Name: City of Waverly

Site Name: City of Waverly – Yard Waste Site (1301 8th St. SE) Date: October 5, 2009

Prepared by: Michael J. Cherry Title: Director of Public Works & City Engineer

(1) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law? **No.**

(2) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? **No.**

(3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? **Yes.**

(4) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? **Property is not for sale.**

(5) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

- (a.) Do you know the past uses of the *property*? **Yes.**
- (b.) Do you know of specific chemicals that are present or once were present at the *property*? **No.**
- (c.) Do you know of spills or other chemical releases that have taken place at the *property*? **No.**
- (d.) Do you know of any environmental cleanups that have taken place at the *property*? **No.**

(6) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*? **Yes, lead bullets from a law center shooting range.**

APPENDIX D

PROPERTY OWNERSHIP INFORMATION

CHAIN OF TITLE SEARCH

TO: Seagull Environmental Technologies, Inc.
415 Oak Street
Kansas City, MO 64106
ATTN: Gregory R. Dillon

PURSUANT TO YOUR REQUEST, WE HAVE MADE A SEARCH OF THE PUBLIC RECORDS IN THE COURTHOUSE AT WAVERLY, BREMER COUNTY, IOWA, FOR CHAIN OF TITLE REGARDING 1301 8TH STREET SE, WAFVERLY, IOWA:

Real Estate Contract - Book 65 Page 102 - copy attached.
Real Estate Contract - Book 65 Page 97 - copy attached.
War. Deed - Book 65 Page 119 - copy attached.
War. Deed - Book 64 Page 128 - this book is unavailable at this time.

(We found a copy of Abstract # 3831 which has abstracted entries for the above instruments. We are including these also.)

THIS IS A REPORT OF CHAIN OF TITLE ONLY. NO EXAMINATION IS MADE AND NO OPINION HAS BEEN FORMED AS TO THE LEGAL EFFECT OF ANY INSTRUMENT OR PROCEEDING INSPECTED.

DATED THIS 7TH DAY OF OCTOBER, 2009 AT 8 A.M.

BREMER COUNTY ABSTRACT COMPANY, INC.

BY



ABSTRACTER

Deed Record No. 65, Bremer County, Iowa

STATE OF CALIFORNIA,)
COUNTY OF LOS ANGELES,) SS;

COPY

Be it remembered that on this 2nd day of July, A.D. 1923, before me a Notary Public in and for Los Angeles County, personally appeared and came Mrs. Gertrude Vogel and Alfred Vogel, to me personally known to be two of the identical persons named in who signed and executed the above instrument as grantors, and acknowledged that they executed the same as their voluntary act and deed.

Witness my hand the day and year last above written.
ANNA HARTENSTEIN
notarial seal
Los Angeles Co., Calif.

Anna Hartenstein
Notary Public in and for the
County of Los Angeles and State of California.
My Commission Expires August 20-1925

1662
Recording Fee \$1.00

Katherine D. Luth
To
Clark H. Baskins
Filed for record this 22 day of Dec. A.D. 1923.
at 10:01 o'clock A.M.

REAL ESTATE CONTRACT

at 10:01 o'clock A.M.
I. H. McDantel
Notary Public

This Agreement, made this 13th day of July A.D. 1923, between Katherine D. Luth of the County of Bremer and State of Iowa, party of the first part, and Clark H. Baskins of the County of Bremer and State of Iowa, of the second part, witnesses as follows:
The party of the first part hereby agrees to sell to the party of the second part, on the performance of the agreements of the party of the second part as hereinafter mentioned, the following, described real estate, situated in the County of Bremer and State of Iowa, to-wit:

The South Nineteen (19) acres of the Northeast Quarter of the Northeast Quarter of Section Eleven, Township 91 Range 14 West of the 5th P.M. FOR THE SUM OF Fourteen Hundred Dollars, payable as hereinafter mentioned. And the said party of the second part, in consideration of the premises, hereby agrees to and with the party of the first part, to purchase the real estate above described for the sum of Fourteen Hundred Dollars, and to pay said sum therefor to the party of the first part, his heirs or assigns, as follows:

The sum of \$200 in cash in hand paid, the receipt of which is hereby acknowledged and the Balance \$1200 on March 1, 1924.
With interest from March 1, 1924 at the rate of 6 per cent per annum upon all such sums as shall remain unpaid, payable annually, till it is paid. And the party of the first part shall also annually pay all taxes and assessments that may accrue on said property as they become due or before they become delinquent, and including the taxes the year 1923 only.

IT is expressly agreed by and between the parties thereto that the time and times of payment of said sums of money, interest, and taxes as aforesaid, is the essential and important part of the contract; and that if any default is made in any of the things of principal or interest, or any part thereof when due, or in the agreements above mentioned, to be performed by the party of the second part, in consideration of the damage, injury and expense thereby resulting, or that may be incurred by or to the party of the first part thereby, this agreement shall be void and of no effect, and the party of the second part shall have no claim in law or equity against the party of the first part nor to the above mentioned real estate, nor any part thereof, and any claim or right to the above mentioned real estate, nor any part thereof, up to the time by reason thereof, without any declaration or forfeiture, re-entry, or any act of the party of the first part. And if the party of the second part, or any other person or persons, shall be in possession of said real estate or any part thereof, or if they will peaceably therefrom, or in default thereof, he or they may be treated as tenants holding over. Lawfully after the expiration of a lease and may be ousted and removed as such (and such event, they agree to pay a reasonable attorney fee for the first party's attorney). But if such sums of money, interest and taxes are paid as aforesaid the party of the first part will on receiving said money and interest executed and delivered, at its cost and expense, a Warranty Deed of said premises, as above agreed, together with an abstract of title clear.

Second party is to have the right to immediately go upon said premises for purpose of making such repairs or improvements as he deems necessary that does not interfere with the growing crops on said land.
Witness our hands the day and year above written

Mrs. Katharine D. Luth
C. H. Baskins

STATE OF IOWA, BREMER COUNTY,) SS.
Be it remembered, that on this 13 day of July, A.D., 1923, before the undersigned Notary Public in and for said county, personally appeared Katharine D. Luth & Clark H. Baskins to me personally known to be the identical persons whose names are affixed to their voluntary act and deed.
Witness my hand and seal the day and year last above written.

I. H. McDantel
Notary Public
Ia.

or of any payments or improvements hereunder shall on any such default cease and determine and become forfeited

65-119
Deed Record No. 65, Bremer County, Iowa

Recording Fee \$.50

Katherine D. Luth

to

Clark H. Baskins

Filed for record the 3 day of Mar. A. D. 1924

at 11:30 o'clock A. M.

Ed St. Schaeffer
RECORDER.

WARRANTY DEED.

COPY

KNOW ALL MEN BY THESE PRESENTS:

Katherine D. Luth, widow, of Black Hawk County, and State of Iowa in consideration of the sum of Fourteen Hundred & no/100 DOLLARS in hand paid by Clark H. Baskins of Bremer County, and State of Iowa, do hereby SELL and CONVEY unto the said Clark H. Baskins the following described premises situated in Bremer County, Iowa:

The South Nineteen (19) acres of the North East Quarter of the North East Quarter of Section Number Eleven (11) in Township Number Ninety-one (91) Range Number Fourteen (14) West of the Fifth (5th) P. M.

U. S. Revenue Stamps

K. D. L. \$1.50

3-1-24

TO HAVE AND TO HOLD the premises above described, with the appurtenances, unto the said Clark H. Baskins and his heirs and assigns forever, and grantor does hereby covenant with the said Clark H. Baskins that she is lawfully seized of said premises; that they are free from encumbrance, that she has good right and lawful authority to sell and convey the same, and does hereby covenant to WARRANT AND DEFEND the title to said real estate and appurtenances hereto belonging, against the lawful claims of all persons whomsoever; and hereby relinquishes all right of dower, and all her right under the Homestead Laws of the State of Iowa, in and to described premises.

Signed this first day of March, A. D., 1924.

Katherine D. Luth

STATE OF IOWA, Black Hawk COUNTY, ss.

On this first day of March, A. D. 1924, before me personally appeared Katherine D. Luth now to me known to be the person named in and who executed the foregoing instrument and acknowledged that she executed the same as her voluntary act and deed.

Lula W. Barnes

Notary Public in and for said County.

Lula W. Barnes

Notarial

Seal

Iowa

COPY

CONTRACT

Mrs. Katherine D. Luth

) Dated July 13, 1923
) Filed Dec 22, 1923

Book Page
65 102

and

C. H. Baskins

) Party of first part agrees to
) sell S 19 acres of NE $\frac{1}{4}$ of NE $\frac{1}{4}$
) Sec 11, Twp 91, Rge 14, to

second party for \$1400.00 to be paid to first party as follows:
The sum of \$200 in cash in hand paid, the receipt of which is
hereby acknowledged, and the balance, \$1200, on Mar 1, 1924,
with interest from Mar 1, 1924 at 6% until paid.

CONTRACT

Clerk H. Baskins

) Dated Aug 1, 1923
) Filed Dec 11, 1923

Book Page
65 97

and

City of Waverly, Iowa, By
F. A. Osincup, Mayor,
Frank Lee, City Clerk

) Party of first part agrees to
) sell to party of second part the
) S 19 acres of NE $\frac{1}{4}$ of NE $\frac{1}{4}$ Sec 11,
) Twp 91, Rge 14, for \$2000, paid
) as follows: \$800 cash, receipt
) and \$1200 on Mar 1, 1924.

of which is hereby acknowledged,

WAR. DEED

Katherine D. Luth, widow

) Dated Mar 1, 1924
) Filed Mar 3, 1924
) Consideration \$1400

Book Page
65 119

to

Clerk H. Baskins

) Conveys the S 19 acres of NE $\frac{1}{4}$ of
) NE $\frac{1}{4}$ Sec 11, Twp 91, Rge 14.

WAR. DEED

Clark H. Baskins, widower

) Dated Mar 3, 1924
) Filed Mar 6, 1924
) Consideration \$2000

Book Page
64 128

to

The City of Waverly

) Conveys the S 19 acres of NE $\frac{1}{4}$ of
) NE $\frac{1}{4}$ Sec 11, Twp 91, Rge 14.

APPENDIX E
SITE PHOTOGRAPHS

**Waverly Yard Waste Site
Waverly, Iowa**



SEAGULL PROJECT NO. EPS70901.0008 Direction: East	DESCRIPTION	This photograph shows the entrance to the site, which is the City of Waverly's yard waste facility.	1
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09



SEAGULL PROJECT NO. EPS70901.0008 Direction: Southeast	DESCRIPTION	This photograph shows the southern portion of the site.	2
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09

**Waverly Yard Waste Site
Waverly, Iowa**



SEAGULL PROJECT NO. EPS70901.0008 Direction: North	DESCRIPTION	This photograph shows the north portion of the site.	3
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09



SEAGULL PROJECT NO. EPS70901.0008 Direction: West	DESCRIPTION	This photograph shows rows of compost. Yard waste is processed into compost by the city.	4
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09

**Waverly Yard Waste Site
Waverly, Iowa**



SEAGULL PROJECT NO. EPS70901.0008 Direction: West	DESCRIPTION	This photograph shows a pile of yard waste at the site.	5
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09



SEAGULL PROJECT NO. EPS70901.0008 Direction: Northwest	DESCRIPTION	This photograph shows the southeast corner of the site where the firearm shooting range was located.	6
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09

**Waverly Yard Waste Site
Waverly, Iowa**



SEAGULL PROJECT NO. EPS70901.0008 Direction: West	DESCRIPTION	This photograph shows household “white goods” that are stored at the site while awaiting removal for proper recycling by a city contractor.	7
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09



SEAGULL PROJECT NO. EPS70901.0008 Direction: West	DESCRIPTION	This photograph shows a drainage culvert along the west side of site.	8
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09

**Waverly Yard Waste Site
Waverly, Iowa**



SEAGULL PROJECT NO. EPS70901.0008 Direction: West	DESCRIPTION	This photograph shows the drainage way on the southern portion of the site.	9
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09



SEAGULL PROJECT NO. EPS70901.0008 Direction: North	DESCRIPTION	This photograph shows the on-site building used by the yard waste attendant.	10
	CLIENT	Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	Jeff Pritchard	9-1-09

APPENDIX F
INTERVIEW DOCUMENTATION



Date : October 23, 2009
To : File
From : Gregory R. Dillon
Subject : Phone Interview with Waverly Fire Chief Dennis Happel.

Gregory Dillon spoke with Waverly Fire Chief Dennis Happel, about the environmental history of the Waverly Yard Waste site. Mr. Happel stated that he had been the Fire Chief for two years and had been part of the Waverly Fire Department for 20 years. The Waverly Fire Department acts as HAZMAT first responder for the Waverly area. I spoke with Mr. Happel about the environmental history of the property and surrounding properties. Mr. Happel stated there had not been any HAZMAT responses on the subject property or any surrounding properties while he has been affiliated with the department.

APPENDIX G

EDR RADIUS MAP WITH GEOCHECK REPORT

Waverly Yard Waste Site

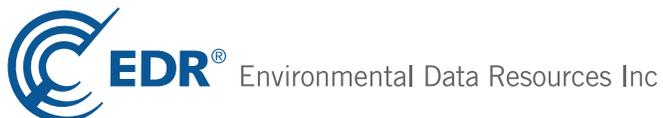
1301 1st Street SE

Waverly, IA 50677

Inquiry Number: 2575615.2s

August 27, 2009

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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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 was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1301 1ST STREET SE
WAVERLY, IA 50677

COORDINATES

Latitude (North): 42.712200 - 42° 42' 43.9"
Longitude (West): 92.459100 - 92° 27' 32.8"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 544294.4
UTM Y (Meters): 4728783.0
Elevation: 906 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42092-F4 WAVERLY, IA
Most Recent Revision: 1972

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2005
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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 search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Registry of Hazardous Waste or Hazardous Substance Disposal Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Permitted Solid Waste Management Facilities

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tank Data
HIST LUST..... Leaking Underground Storage Tank Database
LAST..... Leaking Aboveground Storage Tank Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... Aboveground Storage Tank Sites

EXECUTIVE SUMMARY

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL..... Sites with Institutional Controls

State and tribal voluntary cleanup sites

VCP..... Land Recycling Program Sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

ALLSITES..... Contaminated Sites Tracking Database

DEL SHWS..... Delisted Contaminated Sites Listing

HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

LIENS..... Liens Filed Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... Spills Database

Other Ascertainable Records

RCRA-NonGen..... RCRA - Non Generators

DOT OPS..... Incident and Accident Data

DOD..... Department of Defense Sites

FUDS..... Formerly Used Defense Sites

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD..... Records Of Decision

UMTRA..... Uranium Mill Tailings Sites

EXECUTIVE SUMMARY

MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
DRYCLEANERS.....	Iowa Drycleaner List
NPDES.....	List of NPDES Permittees
AIRS.....	Minor and Title V Sources Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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.

STANDARD ENVIRONMENTAL RECORDS

State and tribal registered storage tank lists

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 05/01/2009 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>CITY OF WAVERLY</i>	<i>1401 8TH ST SE</i>	<i>W 0 - 1/8 (0.096 mi.)</i>	<i>1</i>	<i>7</i>

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: A listing of underground storage tank site locations with detailed information. The information is from the UST System Database which is no longer updated or current. It has been replaced by the UST listing.

A review of the HIST UST list, as provided by EDR, and dated 05/03/2007 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

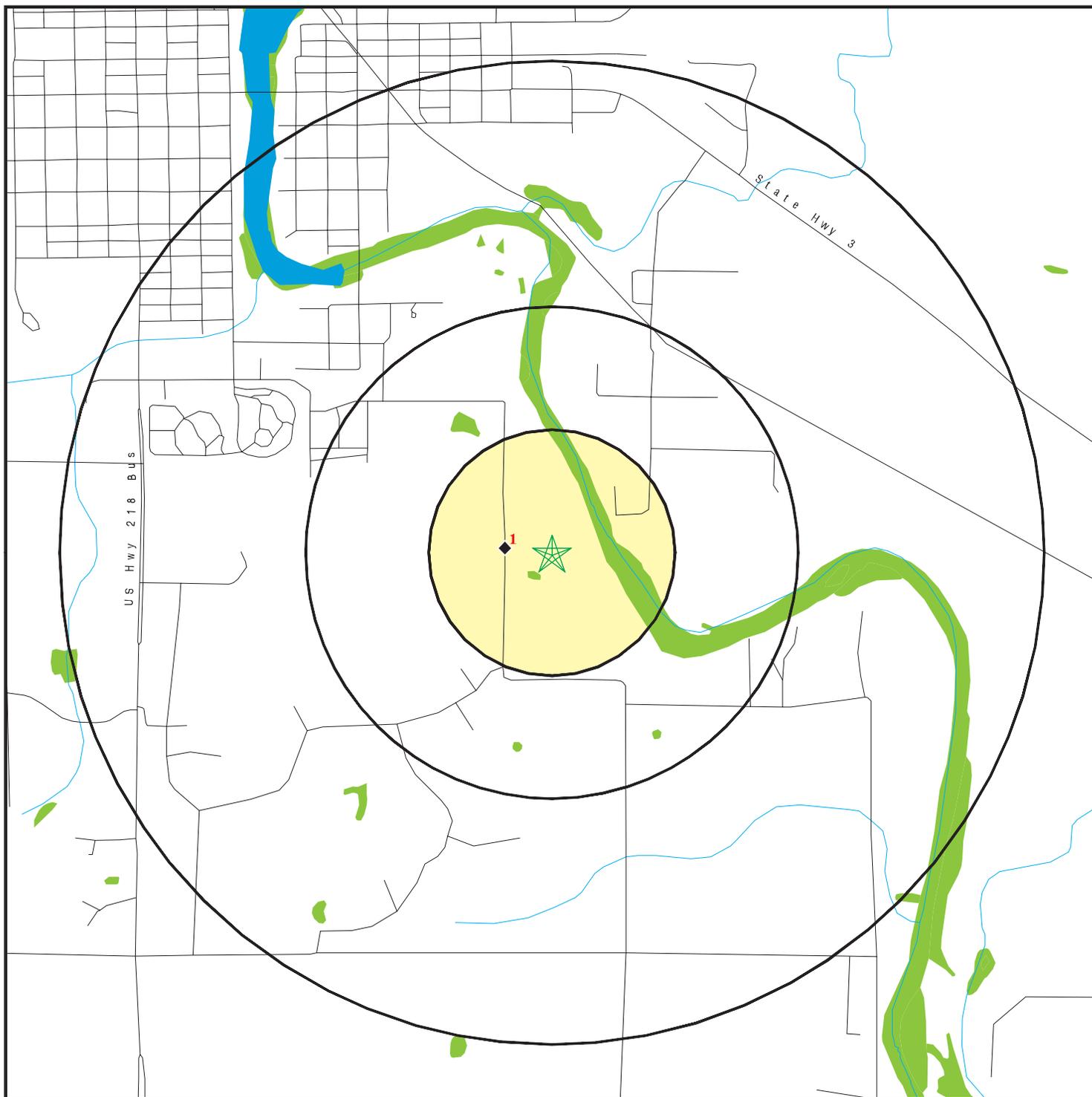
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>CITY OF WAVERLY</i>	<i>1401 8TH ST SE</i>	<i>W 0 - 1/8 (0.096 mi.)</i>	<i>1</i>	<i>7</i>

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
CITY OF WAVERLY AIRPORT	UST, HIST UST
WAVERLY MAINTENANCE GARAGE	UST, HIST UST
E HOMAN	UST, HIST UST
IVAN EHRICH	UST, HIST UST
CITY OF WAVERLY	UST, HIST UST
FORMER UST SITE	HIST LUST
BREMER OIL	ALLSITES
IOWA ARMY NATIONAL GUARD, WAVERLY	ALLSITES
DIESEL FUEL UNLOADING FACILITY, WA	ALLSITES
WAVELY FMGP	ALLSITES
WAVERLY LIGHT & POWER	FTTS, HIST FTTS
WAVERLY (EX) AIR STATION Z-81	CERCLIS, FINDS
WAVERLY WATER SUPPLY	CERC-NFRAP
UNITED EQUIPMENT ACCESSORIES INC	RCRA-NonGen
WAVERLY MUNICIPAL ELEC UTILITY	PADS
PERRINJAQUET KEVIN-FETTKETHER SITE	FINDS
CITY OF WAVERLY AIRPORT	FINDS
WAVERLY MAINTENANCE GARAGE	FINDS
WAVERLY MUNI	FINDS
CITY OF WAVERLY	FINDS
CITY OF WAVERLY	FINDS
WAVERLY HIGH SCHOOL	FINDS
WAVERLY CITY OF STP	FINDS
DIESEL FUEL UNLOADING FACLTY WAVER	FINDS
WAVERLY MUNICIPAL UTIL	FINDS
WAVERLY HIGH SCHOOL	ICIS

OVERVIEW MAP - 2575615.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites

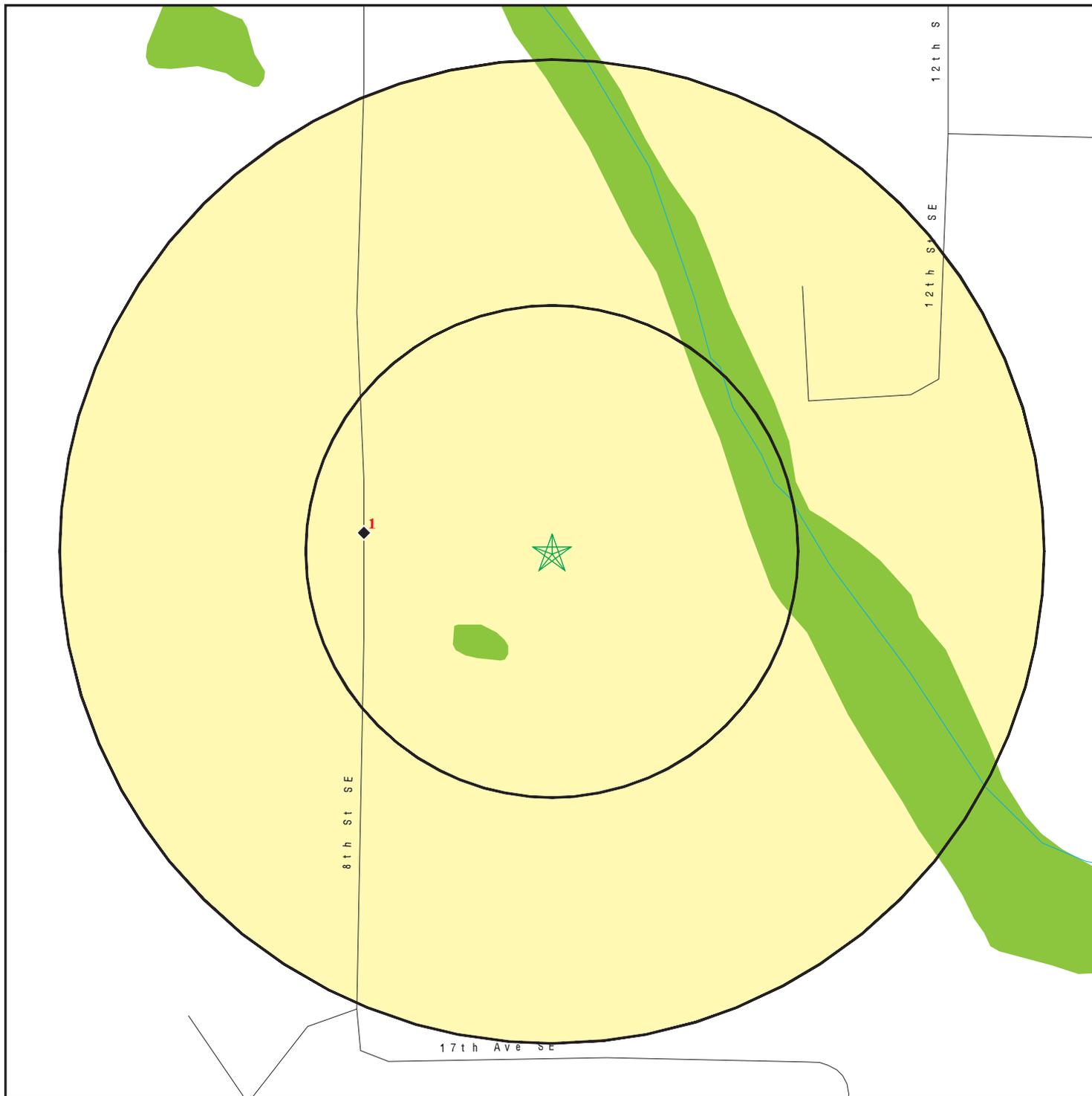
- ☒ Indian Reservations BIA
- ▲ Oil & Gas pipelines
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Waverly Yard Waste Site
 ADDRESS: 1301 1st Street SE
 Waverly IA 50677
 LAT/LONG: 42.7122 / 92.4591

CLIENT: Seagull Env. Technologies
 CONTACT: Jeff Pritchard
 INQUIRY #: 2575615.2s
 DATE: August 27, 2009 1:00 pm

DETAIL MAP - 2575615.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- ▨ National Priority List Sites
- ▨ Dept. Defense Sites

- ▨ Indian Reservations BIA
 - ▲ Oil & Gas pipelines
 - National Wetland Inventory
- 0 1/16 1/8 1/4 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Waverly Yard Waste Site
 ADDRESS: 1301 1st Street SE
 Waverly IA 50677
 LAT/LONG: 42.7122 / 92.4591

CLIENT: Seagull Env. Technologies
 CONTACT: Jeff Pritchard
 INQUIRY #: 2575615.2s
 DATE: August 27, 2009 1:03 pm

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
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.500	0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS		TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		1.000	0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST		0.500	0	0	0	NR	NR	0
HIST LUST		0.500	0	0	0	NR	NR	0
LAST		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST		0.250	1	0	NR	NR	NR	1

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
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL		0.500	0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	0	0	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST		0.250	1	0	NR	NR	NR	1
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0

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
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

1
West
< 1/8
0.096 mi.
507 ft.

CITY OF WAVERLY
1401 8TH ST SE
WAVERLY, IA 50677

UST **U001725031**
HIST UST **N/A**

Relative:
Lower

UST:
 Registration: 198604645

Actual:
903 ft.

UST:
 Registration: 198604645
 Status Description: Regulated tanks - r/f
 Type Description: Municipal

 Tank Id: 13156
 Install Date: 6/1/1980
 Status Description: Regulated tanks - r/f
 Capacity: 4050
 Content Description: Diesel

HIST UST:

Tank Number:	001
Tank Status:	Regulated tanks - r/f
Tank Type:	Other
Tank Capacity:	4050
Currently In Use:	No
Tank Material and Construction:	Other
Tank Material and Construction Other:	FIBERGLASS
Tank Internal Protection Fiberglass:	Not reported
Tank External Protection Cathodic:	Not reported
Temp Closed Date:	Not reported
Site Install Date:	6/1/80 0:00:00
Date Removed:	10/1/88 0:00:00
Filled Inert:	Not reported
Date Filled in Place:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
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
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	NONE
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
Date Cathodic Protection Tested:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF WAVERLY (Continued)

U001725031

TEP Other:	NONE
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 Interstitial Containments:	Not reported
LDS Auto-Gauging:	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 Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Cathodic Protection:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	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 Secondary Barrier:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD 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
Manufacturer Checklist Completed:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AURORA	1011940771	PERRINJAQUET KEVIN-FETTKETHER SITE	6452 40TH STREET HIGHWAY 3	50677	FINDS
BREMER	S109055198	BREMER OIL	190TH STREET	50677	ALLSITES
WAVERLY	U003634614	CITY OF WAVERLY AIRPORT	HWY 218 NORTH	50677	UST, HIST UST
WAVERLY	1011287444	CITY OF WAVERLY AIRPORT	HWY 218 NORTH	50677	FINDS
WAVERLY	S108269652	IOWA ARMY NATIONAL GUARD, WAVERLY	250TH AND CEDAR	50677	ALLSITES
WAVERLY	S107405442	FORMER UST SITE	EAST 2ND STREET	50677	HIST LUST
WAVERLY	U003640586	WAVERLY MAINTENANCE GARAGE	HIGHWAY 3 EAST	50677	UST, HIST UST
WAVERLY	1011289451	WAVERLY MAINTENANCE GARAGE	HIGHWAY 3 EAST	50677	FINDS
WAVERLY	1004689326	UNITED EQUIPMENT ACCESSORIES INC	HWY 3 E	50677	RCRA-NonGen
WAVERLY	U003638891	E HOMAN	RTE 3	50677	UST, HIST UST
WAVERLY	1011989454	WAVERLY MUNI	35TH ST NW		FINDS
WAVERLY	U003637623	IVAN EHRICH	RTE 4 BOX 252	50677	UST, HIST UST
WAVERLY	1009525796	WAVERLY LIGHT & POWER	1002 ADAM PKWY	50677	FTTS, HIST FTTS
WAVERLY	U001869209	CITY OF WAVERLY	8TH AVE SE	50677	UST, HIST UST
WAVERLY	1011529791	WAVERLY HIGH SCHOOL	4TH AVE SW	50677	ICIS
WAVERLY	1011291554	CITY OF WAVERLY	5TH AVE SW	50677	FINDS
WAVERLY	1011289706	CITY OF WAVERLY	8TH AVE SE	50677	FINDS
WAVERLY	1005881617	WAVERLY HIGH SCHOOL	4TH AVE SW	50677	FINDS
WAVERLY	1003876076	WAVERLY WATER SUPPLY	1ST AVE & 3RD ST NE SUNSET AVE	50677	CERC-NFRAP
WAVERLY	1011278816	WAVERLY CITY OF STP	CITY CLERK, CITY HALL	50677	FINDS
WAVERLY	S108269896	DIESEL FUEL UNLOADING FACILITY, WA	SE CORNER OF 2ND AVENUE / 2N	50677	ALLSITES
WAVERLY	1009316548	DIESEL FUEL UNLOADING FACILITY WAVER	SE CORNER OF 2ND AVENUE & 2ND	50677	FINDS
WAVERLY	S109055185	WAVELY FMGP	6TH AV NW AND 1ST STREET NW	50677	ALLSITES
WAVERLY	1000216034	WAVERLY (EX) AIR STATION Z-81	1 MI S OF	50677	CERCLIS, FINDS
WAVERLY	1011280229	WAVERLY MUNICIPAL UTIL	1000 1ST STREET NW	50677	FINDS
WAVERLY	1004468573	WAVERLY MUNICIPAL ELEC UTILITY	1000 1ST STREET NW	50677	PADS

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.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/26/2009
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/23/2009	Source: EPA
Date Data Arrived at EDR: 04/28/2009	Telephone: N/A
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/26/2009
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by 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 received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/26/2009
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

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: 01/09/2009	Source: EPA
Date Data Arrived at EDR: 01/30/2009	Telephone: 703-412-9810
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/14/2009
Number of Days to Update: 101	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 06/15/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2009	Source: EPA
Date Data Arrived at EDR: 04/02/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/31/2009
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 07/23/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/31/2009
Date Data Arrived at EDR: 04/22/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/30/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 109

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 08/26/2009
Next Scheduled EDR Contact: 10/19/2009
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Hazardous Waste or Hazardous Substance Disposal Sites

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: 12/31/2008
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 04/02/2009
Number of Days to Update: 36

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Permitted Solid Waste Management Facilities

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: 06/29/2009
Date Data Arrived at EDR: 07/01/2009
Date Made Active in Reports: 07/08/2009
Number of Days to Update: 7

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 07/01/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Data

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: 05/01/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/27/2009
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: 515-281-6001
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST LUST: Leaking Underground Storage Tank Database

A listing of leaking underground storage tank site locations with detailed information. The information is from the UST System Database which is no longer updated or current. It has been replaced by the LUST listing.

Date of Government Version: 05/03/2007	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/07/2009	Telephone: 515-242-5818
Date Made Active in Reports: 05/27/2009	Last EDR Contact: 04/13/2009
Number of Days to Update: 20	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

LAST: Leaking Aboveground Storage Tank Sites

A listing of leaking aboveground storage tank sites.

Date of Government Version: 10/02/2007	Source: Department of Natural Resources
Date Data Arrived at EDR: 10/10/2007	Telephone: 515-281-6001
Date Made Active in Reports: 12/04/2007	Last EDR Contact: 06/29/2009
Number of Days to Update: 55	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/20/2009	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2009	Telephone: 214-665-6597
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2009	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 08/21/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6271
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 12/15/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3372
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/04/2009	Source: EPA Region 10
Date Data Arrived at EDR: 06/05/2009	Telephone: 206-553-2857
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Underground Storage Tank Data

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: 05/01/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/07/2009	Telephone: 515-281-6001
Date Made Active in Reports: 05/27/2009	Last EDR Contact: 06/29/2009
Number of Days to Update: 20	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Sites

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: 07/13/2009	Source: Department of Public Safety
Date Data Arrived at EDR: 07/13/2009	Telephone: 515-281-5821
Date Made Active in Reports: 07/31/2009	Last EDR Contact: 07/13/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/20/2009	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2009	Telephone: 214-665-7591
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6137
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 06/04/2009	Source: EPA Region 10
Date Data Arrived at EDR: 06/05/2009	Telephone: 206-553-2857
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 09/08/2008	Source: EPA Region 5
Date Data Arrived at EDR: 09/19/2008	Telephone: 312-886-6136
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 08/17/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 08/21/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/15/2008	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3368
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls

Sites currently enrolled in the Land Recycling Program that have Institutional Controls.

Date of Government Version: 08/11/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/11/2009	Telephone: 515-242-5818
Date Made Active in Reports: 08/25/2009	Last EDR Contact: 08/11/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/09/2009
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: Land Recycling Program Sites

Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 06/15/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/16/2009	Telephone: 515-242-5818
Date Made Active in Reports: 06/25/2009	Last EDR Contact: 08/26/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/09/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Listing

Brownfields are abandoned, idled, or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 06/15/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/16/2009	Telephone: 515-281-8489
Date Made Active in Reports: 06/25/2009	Last EDR Contact: 08/26/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 11/09/2009
	Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Brownfields Cleanup Revolving Loan Fund (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: 10/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/14/2008	Telephone: 202-566-2777
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 07/14/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008	Source: EPA, Region 9
Date Data Arrived at EDR: 04/17/2008	Telephone: 415-972-3336
Date Made Active in Reports: 05/15/2008	Last EDR Contact: 07/13/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/21/2009
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/26/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/23/2009
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 10/31/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 53

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/26/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Quarterly

ALLSITES: Contaminated Sites Tracking Database

All the sites included in the Contaminated Sites Tracking Database. The database includes several regulatory compliance programs and actions.

Date of Government Version: 06/15/2009
Date Data Arrived at EDR: 06/16/2009
Date Made Active in Reports: 06/25/2009
Number of Days to Update: 9

Source: Department of Natural Resources
Telephone: 515-281-4171
Last EDR Contact: 08/26/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Quarterly

DEL SHWS: Delisted Contaminated Sites Listing

A listing of sites delisted from the Contaminated Sites Listing.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 02/17/2009
Date Made Active in Reports: 04/02/2009
Number of Days to Update: 44

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Annually

HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

HIST UST: Underground Storage Tanks Database

A listing of underground storage tank site locations with detailed information. The information is from the UST System Database which is no longer updated or current. It has been replaced by the UST listing.

Date of Government Version: 05/03/2007
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/27/2009
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: 515-242-5818
Last EDR Contact: 04/13/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/29/2009
Date Data Arrived at EDR: 06/03/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 06/08/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Varies

LIENS: Liens Filed Listing

A listing of liens filed with the Iowa Comprehensive Petroleum Underground Storage Tank Fund.

Date of Government Version: 06/01/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/01/2009	Telephone: 515-281-5523
Date Made Active in Reports: 06/25/2009	Last EDR Contact: 08/17/2009
Number of Days to Update: 24	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 03/31/2009	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-366-4555
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 07/16/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Annually

SPILLS: Spills Database

Spill reporting data that is collected during the initial report of an incident.

Date of Government Version: 06/01/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/01/2009	Telephone: 515-281-4367
Date Made Active in Reports: 07/08/2009	Last EDR Contact: 07/01/2009
Number of Days to Update: 7	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Annually

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/18/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 07/23/2009
Number of Days to Update: 118	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/27/2009
Number of Days to Update: 72	Next Scheduled EDR Contact: 11/23/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

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: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/08/2009
Number of Days to Update: 62	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/05/2008	Telephone: 202-528-4285
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 07/01/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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: 01/27/2009	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/23/2009	Telephone: Varies
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/20/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/19/2009
	Data Release Frequency: Varies

ROD: Records Of Decision

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: 04/23/2009	Source: EPA
Date Data Arrived at EDR: 04/28/2009	Telephone: 703-416-0223
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 07/31/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009	Source: Department of Energy
Date Data Arrived at EDR: 05/07/2009	Telephone: 505-845-0011
Date Made Active in Reports: 05/08/2009	Last EDR Contact: 06/15/2009
Number of Days to Update: 1	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/19/2009	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/24/2009	Telephone: 303-231-5959
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 06/23/2009
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/21/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

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: 12/31/2007	Source: EPA
Date Data Arrived at EDR: 04/09/2009	Telephone: 202-566-0250
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 06/16/2009
Number of Days to Update: 69	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/14/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Every 4 Years

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

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.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/15/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Quarterly

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

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/15/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

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: 12/31/2006
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/14/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 03/20/2009
Date Data Arrived at EDR: 03/20/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/13/2009
Next Scheduled EDR Contact: 10/12/2009
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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: 02/26/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 9

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 08/05/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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: 04/02/2009
Date Data Arrived at EDR: 04/24/2009
Date Made Active in Reports: 05/19/2009
Number of Days to Update: 25

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/28/2009
Date Data Arrived at EDR: 04/29/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/28/2009
Next Scheduled EDR Contact: 10/26/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

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: 04/28/2009	Source: EPA
Date Data Arrived at EDR: 05/01/2009	Telephone: (913) 551-7003
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 06/29/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

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: 12/31/2007	Source: EPA/NTIS
Date Data Arrived at EDR: 02/19/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 92	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Biennially

DRYCLEANERS: Iowa Drycleaner List

A listing of drycleaners in Iowa.

Date of Government Version: 02/26/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/27/2009	Telephone: 515-242-5100
Date Made Active in Reports: 04/02/2009	Last EDR Contact: 08/10/2009
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/09/2009
	Data Release Frequency: Varies

NPDES: List of NPDES Permittees

The files listed below contain information on facilities that hold NPDES permits, or those that are authorized to discharge wastewater to surface waters in Iowa.

Date of Government Version: 05/27/2009	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/11/2009	Telephone: 515-281-4736
Date Made Active in Reports: 06/25/2009	Last EDR Contact: 06/11/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Varies

AIRS: Minor and Title V Sources Listing

A listing of Minor and Title V sources.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/08/2009
Date Data Arrived at EDR: 04/09/2009
Date Made Active in Reports: 05/27/2009
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: 515-281-8468
Last EDR Contact: 07/06/2009
Next Scheduled EDR Contact: 10/05/2009
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 04/13/2009
Date Data Arrived at EDR: 04/14/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/26/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administered lands of the United States. Lands included are administered by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 05/08/2009
Next Scheduled EDR Contact: 08/03/2009
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/21/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 12/11/2008
Date Made Active in Reports: 03/19/2009
Number of Days to Update: 98

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 07/21/2009
Next Scheduled EDR Contact: 09/07/2009
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 05/05/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 17

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 08/04/2009
Next Scheduled EDR Contact: 11/02/2009
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/22/2009
Date Data Arrived at EDR: 05/27/2009
Date Made Active in Reports: 07/01/2009
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/27/2009
Next Scheduled EDR Contact: 11/23/2009
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/12/2009
Date Made Active in Reports: 06/29/2009
Number of Days to Update: 17

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/15/2009
Next Scheduled EDR Contact: 09/14/2009
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 07/17/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/06/2009
Next Scheduled EDR Contact: 10/05/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WAVERLY YARD WASTE SITE
1301 1ST STREET SE
WAVERLY, IA 50677

TARGET PROPERTY COORDINATES

Latitude (North):	42.71220 - 42° 42' 43.9"
Longitude (West):	92.4591 - 92° 27' 32.8"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	544294.4
UTM Y (Meters):	4728783.0
Elevation:	906 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	42092-F4 WAVERLY, IA
Most Recent Revision:	1972

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.

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.

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).

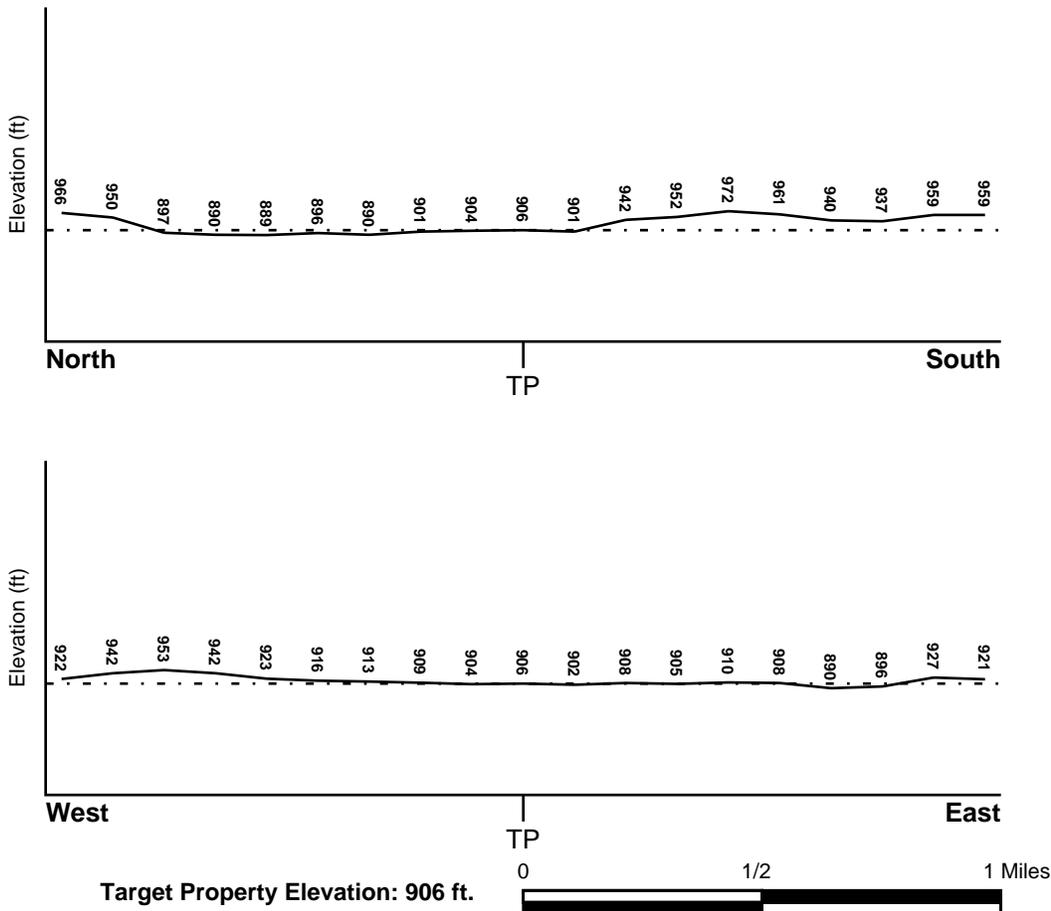
TOPOGRAPHIC INFORMATION

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

General Topographic Gradient: General North

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> BREMER, IA	<u>FEMA Flood Electronic Data</u> Not Available
---------------------------------------------	--------------------------------------------------------

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> WAVERLY	<u>NWI Electronic 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

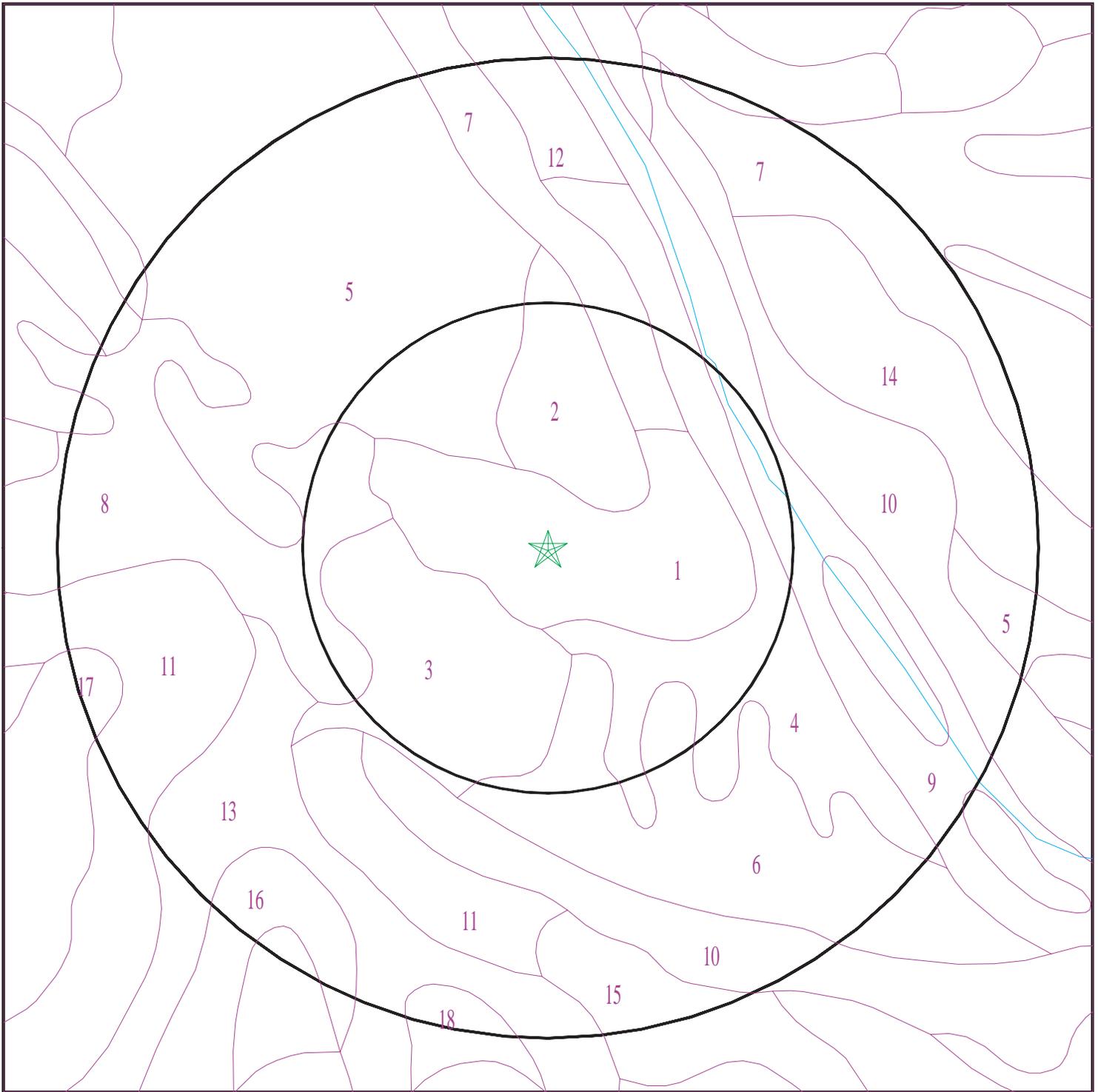
Era:	Paleozoic
System:	Devonian
Series:	Middle Devonian
Code:	D2 <i>(decoded above as Era, System & Series)</i>

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).

SSURGO SOIL MAP - 2575615.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Waverly Yard Waste Site
ADDRESS: 1301 1st Street SE
Waverly IA 50677
LAT/LONG: 42.7122 / 92.4591

CLIENT: Seagull Env. Technologies
CONTACT: Jeff Pritchard
INQUIRY #: 2575615.2s
DATE: August 27, 2009 1:03 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Udorthents

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class: Moderately well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Hagener

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1
2	14 inches	37 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1
3	37 inches	79 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1

Soil Map ID: 3

Soil Component Name: Waukegan

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 6.5 Min: 5.6
2	14 inches	38 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 6.5 Min: 5.6
3	38 inches	62 inches	gravelly sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 6.5 Min: 5.6

Soil Map ID: 4

Soil Component Name: Dickinson

Soil Surface Texture: sandy 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	7 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	11 inches	26 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
4	26 inches	59 inches	sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 5

Soil Component Name: Dickinson

Soil Surface Texture: sandy 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	7 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	11 inches	26 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
4	26 inches	59 inches	sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 6

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: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	55 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 Soils.	Max: 42 Min: 4	Max: 7.3 Min: 5.6
2	55 inches	59 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 Soils.	Max: 42 Min: 4	Max: 7.3 Min: 5.6

Soil Map ID: 7

Soil Component Name: Hagener

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	14 inches	37 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1
3	37 inches	79 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1

Soil Map ID: 8

Soil Component Name: Waukegan

Soil Surface Texture: silt 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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	14 inches	38 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
3	38 inches	59 inches	sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

Soil Map ID: 9

Soil Component Name: Water

Soil Surface Texture: silt 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:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 10

Soil Component Name: Sogn

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 30 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	14 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:

Soil Map ID: 11

Soil Component Name: Rockton

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: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	14 inches	20 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
3	20 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
4	27 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:

Soil Map ID: 12

Soil Component Name: Alluvial land

Soil Surface Texture: stratified silt 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: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	59 inches	stratified silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 13

Soil Component Name: Terril

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: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	48 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: 14 Min: 4	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	48 inches	74 inches	loamy sand	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 Soils.	Max: 14 Min: 4	Max: 7.8 Min: 6.1

Soil Map ID: 14

Soil Component Name: Chelsea

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1
2	3 inches	70 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 15

Soil Component Name: Winneshiek

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	9 inches	25 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
3	25 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
4	29 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 16

Soil Component Name: Rockton

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	14 inches	20 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
3	20 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
4	27 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 17

Soil Component Name: Atkinson

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 121 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	14 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
3	35 inches	46 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
4	46 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 18

Soil Component Name: Rockton

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	14 inches	20 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
3	20 inches	27 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
4	27 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 19

Soil Component Name: Hagener

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1
2	14 inches	37 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1
3	37 inches	79 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.1

Soil Map ID: 20

Soil Component Name: Atkinson

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: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 121 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	14 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
3	35 inches	46 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
4	46 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:

Soil Map ID: 21

Soil Component Name: Sogn

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 30 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	14 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 141 Min: 14	Max: Min:

Soil Map ID: 22

Soil Component Name: Winneshiek

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
2	9 inches	25 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
3	25 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:
4	29 inches	59 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 141 Min: 14	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

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>
_____	_____	_____

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
110	USGS2559922	1/2 - 1 Mile WSW
112	USGS2559918	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	IAPU10000199680	1/8 - 1/4 Mile NE
A2	IAPU10000199535	1/8 - 1/4 Mile West
A3	IAPW10000077572	1/8 - 1/4 Mile WNW
A4	IAPW10000077573	1/8 - 1/4 Mile WNW
B5	IAPR10000017764	1/4 - 1/2 Mile ENE
B6	IAPU10000199697	1/4 - 1/2 Mile ENE
B7	IAPU10000199704	1/4 - 1/2 Mile ENE
B8	IAPU10000199709	1/4 - 1/2 Mile ENE
A9	IAPU10000199527	1/4 - 1/2 Mile West
10	IAPU10000199255	1/4 - 1/2 Mile SW
C11	IAPU10000199194	1/4 - 1/2 Mile SE
C12	IAPR10000017728	1/4 - 1/2 Mile SE
C13	IAPU10000199172	1/4 - 1/2 Mile SE
C14	IAPW10000077464	1/4 - 1/2 Mile SE
D15	IAPU10000199008	1/4 - 1/2 Mile South
E16	IAPR10000017725	1/4 - 1/2 Mile SW
D17	IAPU10000199007	1/4 - 1/2 Mile South
E18	IAPU10000199176	1/4 - 1/2 Mile SW
E19	IAPU10000199165	1/4 - 1/2 Mile SW
E20	IAPU10000199170	1/4 - 1/2 Mile SW
F21	IAPU10000199243	1/4 - 1/2 Mile SE
F22	IAPW10000077480	1/4 - 1/2 Mile ESE
F23	IAPW10000077479	1/4 - 1/2 Mile ESE
F24	IAPW10000077482	1/4 - 1/2 Mile ESE
F25	IAPW10000077481	1/4 - 1/2 Mile ESE
G26	IAPU10000200117	1/4 - 1/2 Mile NNW
F27	IAPU10000199235	1/4 - 1/2 Mile SE
G28	IAPU10000200147	1/4 - 1/2 Mile NNW
H29	IAPU10000200044	1/4 - 1/2 Mile NE
H30	IAPW10000077800	1/4 - 1/2 Mile NE
H31	IAPW10000077801	1/4 - 1/2 Mile NE
I32	IAPU10000200153	1/4 - 1/2 Mile NNE
H33	IAPU10000200128	1/4 - 1/2 Mile NE
I34	IAPU10000200162	1/4 - 1/2 Mile NNE
I35	IAPR10000017794	1/4 - 1/2 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

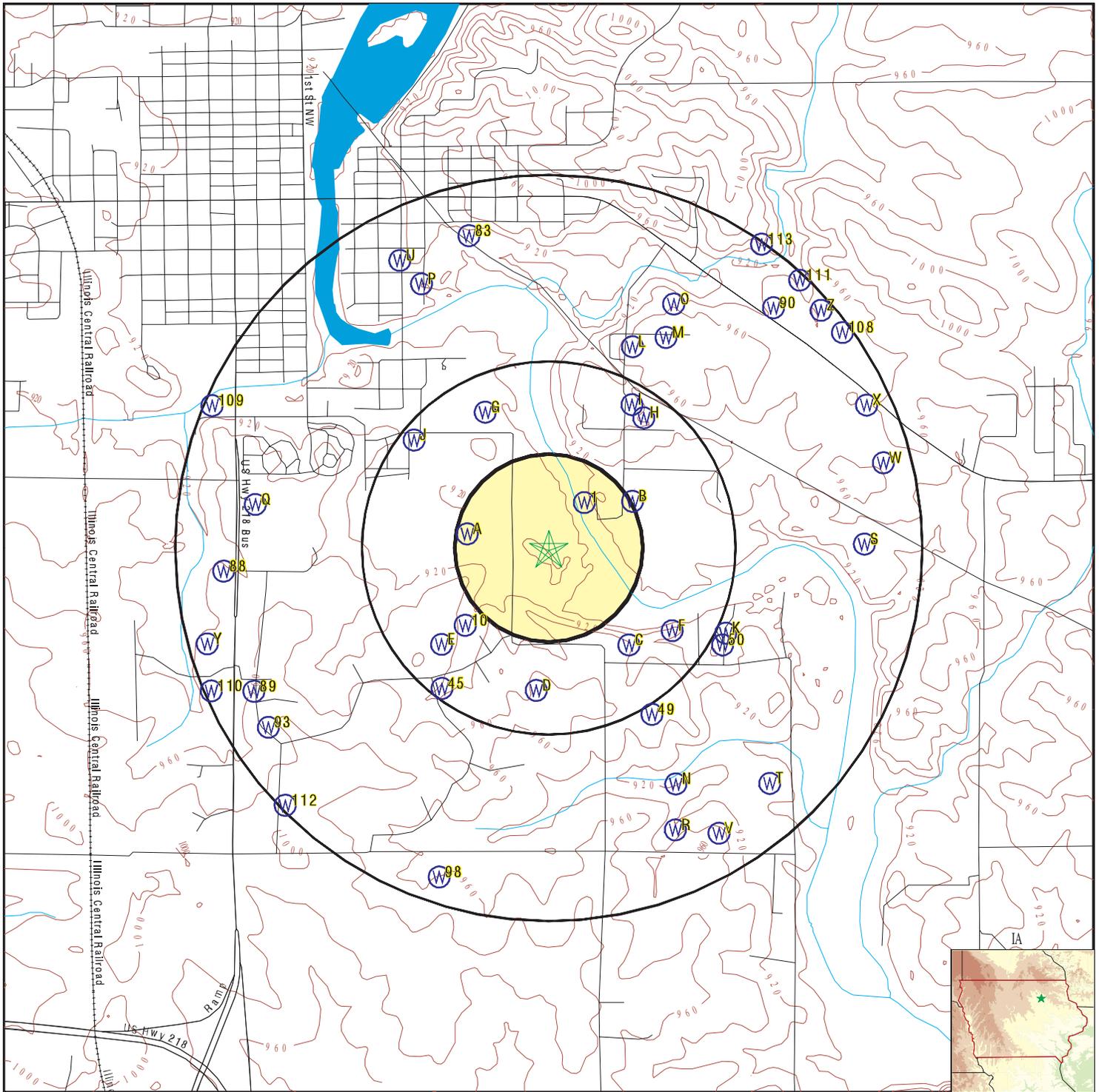
MAP ID	WELL ID	LOCATION FROM TP
I36	IAPR10000017793	1/4 - 1/2 Mile NNE
I37	IAPU10000200167	1/4 - 1/2 Mile NNE
I38	IAPU10000200179	1/4 - 1/2 Mile NNE
I39	IAPU10000200172	1/4 - 1/2 Mile NNE
I40	IAPU10000200175	1/4 - 1/2 Mile NNE
I41	IAPU10000200178	1/4 - 1/2 Mile NNE
J42	IAPU10000200005	1/4 - 1/2 Mile NW
J43	IAPW10000077746	1/4 - 1/2 Mile NW
J44	IAPW10000077747	1/4 - 1/2 Mile NW
45	IAPU10000199013	1/4 - 1/2 Mile SW
K46	IAPW10000077503	1/2 - 1 Mile ESE
K47	IAPW10000077502	1/2 - 1 Mile ESE
K48	IAPU10000199269	1/2 - 1 Mile ESE
49	IAPU10000198949	1/2 - 1 Mile SSE
50	IAPU10000199168	1/2 - 1 Mile ESE
K51	IAPR10000017727	1/2 - 1 Mile ESE
K52	IAPR10000017726	1/2 - 1 Mile ESE
K53	IAPU10000199191	1/2 - 1 Mile ESE
K54	IAPU10000199198	1/2 - 1 Mile ESE
K55	IAPU10000199187	1/2 - 1 Mile ESE
L56	IAPW10000077872	1/2 - 1 Mile NNE
L57	IAPW10000077871	1/2 - 1 Mile NNE
L58	IAPU10000200399	1/2 - 1 Mile NNE
M59	IAPU10000200417	1/2 - 1 Mile NNE
M60	IAPW10000077877	1/2 - 1 Mile NNE
M61	IAPW10000077878	1/2 - 1 Mile NNE
M62	IAPU10000200473	1/2 - 1 Mile NNE
N63	IAPR10000017696	1/2 - 1 Mile SSE
N64	IAPU10000198708	1/2 - 1 Mile SSE
N65	IAPU10000198698	1/2 - 1 Mile SSE
O66	IAPU10000200567	1/2 - 1 Mile NNE
O67	IAPW10000077952	1/2 - 1 Mile NNE
P68	IAPU10000200688	1/2 - 1 Mile NNW
P69	IAPU10000200702	1/2 - 1 Mile NNW
Q70	IAPU10000199647	1/2 - 1 Mile West
Q71	IAPU10000199670	1/2 - 1 Mile West
Q72	IAPU10000199655	1/2 - 1 Mile West
Q73	IAPU10000199672	1/2 - 1 Mile West
R74	IAPU10000198496	1/2 - 1 Mile SSE
R75	IAPU10000198475	1/2 - 1 Mile SSE
R76	IAPR10000017679	1/2 - 1 Mile SSE
R77	IAPU10000198488	1/2 - 1 Mile SSE
S78	IAPU10000199508	1/2 - 1 Mile East
S79	IAPW10000077564	1/2 - 1 Mile East
S80	IAPW10000077565	1/2 - 1 Mile East
S81	IAPU10000199472	1/2 - 1 Mile East
T82	IAPU10000198715	1/2 - 1 Mile SE
83	IAPU10000200855	1/2 - 1 Mile NNW
U84	IAPU10000200771	1/2 - 1 Mile NNW
T85	IAPR10000017695	1/2 - 1 Mile SE
T86	IAPU10000198699	1/2 - 1 Mile SE
U87	IAPU10000200783	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
88	IAPW10000077539	1/2 - 1 Mile West
89	IAPU10000199003	1/2 - 1 Mile WSW
90	IAPU10000200562	1/2 - 1 Mile NE
V91	IAPU10000198487	1/2 - 1 Mile SSE
V92	IAPU10000198503	1/2 - 1 Mile SSE
93	IAPU10000198903	1/2 - 1 Mile WSW
V94	IAPW10000077201	1/2 - 1 Mile SSE
W95	IAPU10000199830	1/2 - 1 Mile ENE
W96	IAPU10000199835	1/2 - 1 Mile ENE
W97	IAPU10000199871	1/2 - 1 Mile ENE
98	IAPU10000198299	1/2 - 1 Mile SSW
X99	IAPU10000200169	1/2 - 1 Mile ENE
X100	IAPU10000200166	1/2 - 1 Mile ENE
X101	IAPU10000200156	1/2 - 1 Mile ENE
Y102	IAPU10000199171	1/2 - 1 Mile WSW
Y103	IAPU10000199179	1/2 - 1 Mile WSW
Z104	IAPW10000077929	1/2 - 1 Mile NE
Z105	IAPW10000077928	1/2 - 1 Mile NE
Z106	IAPU10000200549	1/2 - 1 Mile NE
Z107	IAPU10000200554	1/2 - 1 Mile NE
108	IAPU10000200458	1/2 - 1 Mile NE
109	IAPU10000200158	1/2 - 1 Mile WNW
111	IAPU10000200712	1/2 - 1 Mile NE
113	IAPW10000078035	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 2575615.2s



- County Boundary
- Major Roads
- Contour Lines
- 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



SITE NAME: Waverly Yard Waste Site
 ADDRESS: 1301 1st Street SE
 Waverly IA 50677
 LAT/LONG: 42.7122 / 92.4591

CLIENT: Seagull Env. Technologies
 CONTACT: Jeff Pritchard
 INQUIRY #: 2575615.2s
 DATE: August 27, 2009 1:03 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
NE
1/8 - 1/4 Mile
Lower

IA WELLS IAPU10000199680

Mapid:	82883		
Wellid:	62184	Id src fld:	recordno
Datasrc:	TEST	Location:	T. 91 N., R. 14 W., Sec. 11, NE, NE, NE
Well type:	Wells registered for testing	Est loc ac:	Calc. +/- 140m.
Depth:	100	C p date:	1979
Owner name:	Gulick, Merlyn L.		
Other info:	Drilling method: Drilled; Known well depth		
Xcoord:	544445.31		
Ycoord:	4729194.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199680

A2
West
1/8 - 1/4 Mile
Higher

IA WELLS IAPU10000199535

Mapid:	82998		
Wellid:	2076909	Id src fld:	wellnbr
Datasrc:	PWTS	Location:	T. 91 N., R. 14 W., Sec. 11, NE NW SE NW NW
Well type:	Private well tracking system	Est loc ac:	nom. +/- 25m.
Depth:	unkn	C p date:	unkn
Owner name:	Clancy, Howard		
Other info:	Status: Retired Use: Irrigation		
Xcoord:	543973.15		
Ycoord:	4729055.2		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199535

A3
WNW
1/8 - 1/4 Mile
Higher

IA WELLS IAPW10000077572

Wellnbr:	2076909	Pmntnbr:	10664
Twp:	91	Rge:	14
Ew:	W	Sec:	11
Qqqqq:	NE NW SE NW NW	Elev:	0
Elev acc:	Not Reported	Well depth:	0
Br depth:	-99	Wtr depth:	-99
Latn:	42.7128		
Longn:	-92.4631		
Dte done:	04/04/1944	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Clancy, Howard		
Cnstr mthd:	Not Reported		
Fm rmk:	Not Reported		
Well use:	Irrigation	Status:	Retired
Ht pmp no:	0	Permit:	X
Plugging:	Not Reported	Renovate:	Not Reported
Test:	Not Reported		
Xcoord:	543965.15		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ycoord:	4729062.26	Has prod:	0
Has litho:	0	Has constr:	0
Has wq:	0	Site id:	IAPW10000077572
Wnumber:	0		

**A4
WNW
1/8 - 1/4 Mile
Higher**

IA WELLS IAPW10000077573

Wellnubr:	2076909	Pmntnubr:	10664
Twp:	91	Rge:	14
Ew:	W	Sec:	11
Qqqqq:	NE NW SE NW NW	Elev:	0
Elev acc:	Not Reported	Well depth:	0
Br depth:	-99	Wtr depth:	-99
Latn:	42.7128		
Longn:	-92.4631		
Dte done:	04/04/1944	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Clancy, Howard		
Cnstr mthd:	Not Reported		
Fm rnk:	Not Reported		
Well use:	Irrigation	Status:	Retired
Ht pmp no:	0	Permit:	X
Plugging:	Not Reported	Renovate:	Not Reported
Test:	Not Reported		
Xcoord:	543965.15		
Ycoord:	4729062.26		
Has litho:	0	Has prod:	0
Has wq:	0	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077573

**B5
ENE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPR10000017764

Recordno:	26477	Twp:	91
N s:	N	Rge:	14
E w:	W	Sec:	12
Qqqqq:	NW NW NW	Q abc:	BBB
Permit:	00-00110	App role:	O
Appfirst:	KENDALL	Applast:	FOX
Appaddr:	1005 12TH ST. SE	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	FOX	Owneraddr:	Not Reported
Ownercity:	WAVERLY	Ownerst:	Not Reported
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	NWNWNW12 9114W	Depth:	120
Appdate:	04/06/2000	Prmtdate:	03/08/2000
Use1:	HOUSEHOLD	Use2:	Not Reported
Contname:	SHAWVER WELL CO.	Contid:	Not Reported
Welldrlr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	01/01/2000
E1use1:	Not Reported	E1use2:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	Not Reported	Agentlast:	Not Reported
Created:	kwillet 05/09/00 10:37:13	Checked:	TOEHLER 05/15/00 10:42:44
Updated:	TOEHLER 05/15/00 10:42:44	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	544647.44		
Utm y:	4729196		
Site id:	IAPR10000017764		

B6
ENE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000199697

Mapid:	82879		
Wellid:	51869	Id src fld:	wnumber
Datasrc:	GEOU	Location:	T. 91 N., R. 14 W., Sec. 12, NW, NW, NW
Well type:	IGS well database	Est loc ac:	Calc. +/- 140m.
Depth:	116	C p date:	3/23/2000
Owner name:	Fox, Kendall		
Other info:	Bedrock depth 15 ft.		
Xcoord:	544653.47		
Ycoord:	4729200.9		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=51869		
Disperse:	1	Site id:	IAPU10000199697

B7
ENE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000199704

Mapid:	82876		
Wellid:	40736	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 12, NW, NW, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	35	C p date:	n.a.
Owner name:	Fox, Kendall		
Other info:	Well plugged: 3/15/2000; Well type: < 18" dia.		
Xcoord:	544656.44		
Ycoord:	4729203		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199704

B8
ENE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000199709

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	82875	Id src fld:	recordno
Wellid:	26477	Location:	T. 91 N., R. 14 W., Sec. 12, NW, NW, NW
Datasrc:	PVTP	Est loc ac:	Calc. +/- 140m.
Well type:	Permitted private wells	C p date:	3/08/2000
Depth:	120		
Owner name:	Fox		
Other info:	Primary use: household		
Xcoord:	544655.44		
Ycoord:	4729205		
Hlink:	Not Reported	Site id:	IAPU10000199709
Disperse:	1		

**A9
West
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199527

Mapid:	83005	Id src fld:	uniqueid
Wellid:	223a	Location:	T. 91N., R. , 14 W., Sec. 11
Datasrc:	WTRU	Est loc ac:	Interp. +/- 20m.
Well type:	Water use permit sites	C p date:	unkn
Depth:	n.a.		
Owner name:	Waverly Soccer Association		
Other info:	Prim. use: unknown		
Xcoord:	543864.01		
Ycoord:	4729044.9		
Hlink:	Not Reported	Site id:	IAPU10000199527
Disperse:	1		

**10
SW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199255

Mapid:	83313	Id src fld:	uniqueid
Wellid:	120a	Location:	T. 91N., R. , 14 W., Sec. 11
Datasrc:	WTRU	Est loc ac:	Interp. +/- 20m.
Well type:	Water use permit sites	C p date:	unkn
Depth:	n.a.		
Owner name:	Centennial Oaks Golf Club Lc		
Other info:	Prim. use: unknown		
Xcoord:	543935.89		
Ycoord:	4728662		
Hlink:	Not Reported	Site id:	IAPU10000199255
Disperse:	1		

**C11
SE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199194

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	83369	Id src fld:	wnumber
Wellid:	37408	Location:	T. 91 N., R. 14 W., Sec. 12, NW, SW, SW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	12/11/1995
Depth:	130		
Owner name:	Winzenburg, Walter		
Other info:	Bedrock depth 6 ft.		
Xcoord:	544644.59		
Ycoord:	4728596.3		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=37408		
Disperse:	1	Site id:	IAPU10000199194

**C12
SE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPR1000017728

Recordno:	17958	Twp:	91
N s:	N	Rge:	14
E w:	W	Sec:	12
Qqqqq:	NW SW SW	Q abc:	BCC
Permit:	09-95-00555	App role:	U
Appfirst:	WALTER	Applast:	WINZENBURG
Appaddr:	1617 11TH ST SE	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	Not Reported	Owneraddr:	Not Reported
Ownercity:	Not Reported	Ownerst:	Not Reported
Ownerzip:	Not Reported	Ownerphone:	Not Reported
County:	9	Status:	P
Legal:	SWSWNW12 9114W	Depth:	0
Appdate:	11/14/1995	Prmtdate:	11/08/1995
Use1:	2	Use2:	4
Contname:	Shawver, Gary	Contid:	Not Reported
Wellldr:	Not Reported	Certnum:	40122
Constguess:	Not Reported	Const:	10/31/1995
E1use1:	Not Reported	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	DOUG	Agentlast:	BIRD
Created:	pheesch 02/19/96 15:01:25	Checked:	Not Reported
Updated:	Not Reported	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	544645.5		
Utm y:	4728590.5		
Site id:	IAPR1000017728		

**C13
SE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199172

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	83386		
Wellid:	17958	Id src fld:	recordno
Datasrc:	PVTP	Location:	T. 91 N., R. 14 W., Sec. 12, NW, SW, SW
Well type:	Permitted private wells	Est loc ac:	Calc. +/- 140m.
Depth:	unkn	C p date:	11/08/1995
Owner name:	Unkn		
Other info:	Primary use: Domestic/household		
Xcoord:	544644.5		
Ycoord:	4728583.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199172

**C14
SE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077464

Wellnubr:	2127111	Pmntnubr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NW SW SW SW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	70
Br depth:	-99	Wtr depth:	-99
Latn:	42.7082		
Longn:	-92.455		
Dte done:	01/01/1965	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Schrupp, Richard		
Cnstr mthd:	Rotary		
Fm rnk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544631.74		
Ycoord:	4728555.71		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077464

**D15
South
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199008

Mapid:	83604		
Wellid:	11761	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 11, SE, NE, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	99	C p date:	n.a.
Owner name:	Magnall, Paul		
Other info:	Well plugged: 4/3/1990; Well type: unkn		
Xcoord:	544243.63		
Ycoord:	4728383.5		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000199008

**E16
SW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPR10000017725

Recordno:	24162	Twp:	91
N s:	N	Rge:	14
E w:	W	Sec:	11
Qqqqq:	NE SW SW	Q abc:	ACC
Permit:	99-00380	App role:	O
Appfirst:	Not Reported	Applast:	CENTENIAL OAKS GOLF COUR
Appaddr:	1501 8TH ST. SE	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	CENTENIAL OAKS GOLF COUR	Owneraddr:	Not Reported
Ownercity:	WAVERLY	Ownerst:	Not Reported
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	SWSWNE11 9114W	Depth:	0
Appdate:	06/01/1999	Prmtdate:	05/25/1999
Use1:	IRRIGATION	Use2:	Not Reported
Contname:	Shawver Well Co.	Contid:	Not Reported
Wellrlr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	05/30/1997
E1use1:	Not Reported	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	DOUG	Agentlast:	BIRD
Created:	kwilllet 07/30/99 11:46:51	Checked:	toehler 08/26/99 12:45:49
Updated:	toehler 08/26/99 12:45:49	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	543837		
Utm y:	4728582		
Site id:	IAPR10000017725		

**D17
South
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199007

Mapid:	83607		
Wellid:	1989	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 11, SE, NE, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	99	C p date:	n.a.
Owner name:	Magnall, Paul		
Other info:	Well plugged: 4/3/1990; Well type: < 18" dia.		
Xcoord:	544243.63		
Ycoord:	4728382.5		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000199007

**E18
SW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199176

Mapid:	83389	Id src fld:	recordno
Wellid:	24162	Location:	T. 91 N., R. 14 W., Sec. 11, NE, SW, SW
Datasrc:	PVTP	Est loc ac:	Calc. +/- 140m.
Well type:	Permitted private wells	C p date:	5/25/1999
Depth:	unkn		
Owner name:	Centenial Oaks Golf Cours		
Other info:	Primary use: irrigation		
Xcoord:	543835		
Ycoord:	4728582		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199176

**E19
SW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199165

Mapid:	83396	Id src fld:	recordno
Wellid:	61019	Location:	T. 91 N., R. 14 W., Sec. 11, NE, SW, SW
Datasrc:	TEST	Est loc ac:	Calc. +/- 140m.
Well type:	Wells registered for testing	C p date:	1999
Depth:	152		
Owner name:	Centenial Oaks Golf Cours		
Other info:	Drilling method: Drilled; Known well depth		
Xcoord:	543835		
Ycoord:	4728574		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199165

**E20
SW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199170

Mapid:	83394	Id src fld:	wnumber
Wellid:	50371	Location:	T. 91 N., R. 14 W., Sec. 11, NE, SW, SW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	6/22/1999
Depth:	152		
Owner name:	Centenial Oaks Golf Course		
Other info:	Bedrock depth 10 ft.		
Xcoord:	543830.03		
Ycoord:	4728576.9		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=50371		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000199170

**F21
SE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199243

Mapid:	83331	Id src fld:	wellnbr
Wellid:	2108993	Location:	T. 91 N., R. 14 W., Sec. 12, NW SW SE NW NE
Datasrc:	PWTS	Est loc ac:	nom. +/- 25m.
Well type:	Private well tracking system	C p date:	11/05/1973
Depth:	108		
Owner name:	Abram, R Jack		
Other info:	Status: Active Use: Household		
Xcoord:	544825.71		
Ycoord:	4728643.8		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199243

**F22
ESE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077480

Wellnbr:	2121087	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NW SW SE NW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	80
Br depth:	-99	Wtr depth:	-99
Latn:	42.709		
Longn:	-92.4526		
Dte done:	01/01/1966	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Frederick, Raymond		
Cnstr mthd:	Auger		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544827.71		
Ycoord:	4728645.81		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077480

**F23
ESE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077479

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellnbr:	2108993	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NW SW SE NW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	108
Br depth:	-99	Wtr depth:	-99
Latn:	42.709		
Longn:	-92.4526		
Dte done:	11/05/1973	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Abram, R Jack		
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544827.71		
Ycoord:	4728645.81		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077479

**F24
ESE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077482

Wellnbr:	2121087	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NW SW SE NW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	80
Br depth:	-99	Wtr depth:	-99
Latn:	42.709		
Longn:	-92.4526		
Dte done:	01/01/1966	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Frederick, Raymond		
Cnstr mthd:	Auger		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544827.71		
Ycoord:	4728645.81		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077482

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

F25
ESE
1/4 - 1/2 Mile
Higher

IA WELLS IAPW10000077481

Wellnbr:	2108993	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NW SW SE NW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	108
Br depth:	-99	Wtr depth:	-99
Latn:	42.709		
Longn:	-92.4526		
Dte done:	11/05/1973	Qty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Abram, R Jack		
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544827.71		
Ycoord:	4728645.81		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077481

G26
NNW
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200117

Mapid:	82522		
Wellid:	2222	Id src fld:	permit_
Datasrc:	MUNW	Location:	T91N, R14W, Sec. 2
Well type:	Public water supply intakes	Est loc ac:	Calc. +/- 1135m.
Depth:	n.a.	C p date:	n.a.
Owner name:	Waverly		
Other info:	n.a.		
Xcoord:	543987.41		
Ycoord:	4729563.4		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200117

F27
SE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000199235

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	83336	Id src fld:	wellnbr
Wellid:	2121087	Location:	T. 91 N., R. 14 W., Sec. 12, NW SW SE NW NE
Datasrc:	PWTS	Est loc ac:	nom. +/- 25m.
Well type:	Private well tracking system	C p date:	1/01/1966
Depth:	80		
Owner name:	Frederick, Raymond		
Other info:	Status: Active Use: Household		
Xcoord:	544828.71		
Ycoord:	4728639.8		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199235

**G28
NNW
1/4 - 1/2 Mile
Lower**

IA WELLS IAPU10000200147

Mapid:	82489	Id src fld:	wnumber
Wellid:	30373	Location:	T. 91 N., R. 14 W., Sec. 2, SE, SW, NE
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	7/23/1989
Depth:	159		
Owner name:	Waverly, City Of		
Other info:	Bedrock depth 73 ft.		
Xcoord:	544044.29		
Ycoord:	4729599.4		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=30373		
Disperse:	1	Site id:	IAPU10000200147

**H29
NE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000200044

Mapid:	82585	Id src fld:	wnumber
Wellid:	36793	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 285m.
Well type:	IGS well database	C p date:	4/16/1980
Depth:	160		
Owner name:	Hesse Real Estate, Inc., R.I.		
Other info:	Bedrock depth 12 ft.		
Xcoord:	544745.54		
Ycoord:	4729504.2		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=36793		
Disperse:	1	Site id:	IAPU10000200044

**H30
NE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077800

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellnbr:	2085404	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SW SW NW SE NW	Elev:	0
Elev acc:	Not Reported	Well depth:	80
Br depth:	-99	Wtr depth:	-99
Latn:	42.7174		
Longn:	-92.4543		
Dte done:	01/01/1977	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Kemmings, Steve		
Cnstr mthd:	Driven		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544682.46		
Ycoord:	4729577.68		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077800

**H31
NE
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077801

Wellnbr:	2085404	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SW SW NW SE NW	Elev:	0
Elev acc:	Not Reported	Well depth:	80
Br depth:	-99	Wtr depth:	-99
Latn:	42.7174		
Longn:	-92.4543		
Dte done:	01/01/1977	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Kemmings, Steve		
Cnstr mthd:	Driven		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544682.46		
Ycoord:	4729577.68		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077801

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

I32
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200153

Mapid:	82482		
Wellid:	19450	Id src fld:	recordno
Datasrc:	PVTP	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW, NW
Well type:	Permitted private wells	Est loc ac:	Calc. +/- 140m.
Depth:	unkn	C p date:	10/23/1996
Owner name:	Unkn		
Other info:	Primary use: household		
Xcoord:	544645.81		
Ycoord:	4729610		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200153

H33
NE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200128

Mapid:	82505		
Wellid:	2085404	Id src fld:	wellnbr
Datasrc:	PWTS	Location:	T. 91 N., R. 14 W., Sec. 1, SW SW NW SE NW
Well type:	Private well tracking system	Est loc ac:	nom. +/- 25m.
Depth:	80	C p date:	1/01/1977
Owner name:	Kemmings, Steve		
Other info:	Status: Active Use: Household		
Xcoord:	544686.46		
Ycoord:	4729585.6		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200128

I34
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200162

Mapid:	82479		
Wellid:	51858	Id src fld:	wnumber
Datasrc:	GEOU	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW, NW
Well type:	IGS well database	Est loc ac:	Calc. +/- 140m.
Depth:	125	C p date:	1/28/2000
Owner name:	Ecker, Bruce		
Other info:	Bedrock depth 12 ft.		
Xcoord:	544644.72		
Ycoord:	4729614.7		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=51858		
Disperse:	1	Site id:	IAPU10000200162

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

I35
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPR10000017794

Recordno:	26108	Twtp:	91
N s:	N	Rge:	14
E w:	W	Sec:	1
Qqqqq:	SW SW NW	Q abc:	CCB
Permit:	99-01031	App role:	O
Appfirst:	BRUCE	Applast:	ECKER
Appaddr:	901 12TH STREET	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	ECKER	Owneraddr:	Not Reported
Ownercity:	WAVERLY	Ownerst:	IA
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	NWSWSW 1 9114W	Depth:	0
Appdate:	11/05/1999	Prmtdate:	12/02/1999
Use1:	IRRIGATION	Use2:	Not Reported
Contname:	Shawver Well Co.	Contid:	Not Reported
Welldir:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	11/30/1999
E1use1:	Not Reported	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	Not Reported	Agentlast:	Not Reported
Created:	toehler 02/14/00 12:52:41	Checked:	kwillet 02/14/00 15:32:52
Updated:	kwillet 02/14/00 15:32:52	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	544648.81		
Utm y:	4729615		
Site id:	IAPR10000017794		

I36
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPR10000017793

Recordno:	19450	Twtp:	91
N s:	N	Rge:	14
E w:	W	Sec:	1
Qqqqq:	SW SW NW	Q abc:	CCB
Permit:	96-00955	App role:	U
Appfirst:	DOUGLAS	Applast:	BAST
Appaddr:	715 12TH ST SE	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	Not Reported	Owneraddr:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ownership:	WAVERLY	Ownerst:	Not Reported
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	NWSWSW 1 9114W	Depth:	0
Appdate:	10/23/1996	Prmtdate:	10/23/1996
Use1:	HOUSEHOLD	Use2:	Not Reported
Contname:	SHAWVER WELL CO.	Contid:	Not Reported
Welldrlr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	10/07/1996
E1use1:	HOUSEHOLD	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	3
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	DOUG	Agentlast:	BIRD
Created:	Imcmull 12/09/96 12:39:17	Checked:	pheesch 12/10/96 15:51:32
Updated:	pheesch 12/10/96 15:51:32	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	544648.81		
Utm y:	4729615		
Site id:	IAPR10000017793		

I37
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200167

Mapid:	82477	Id src fld:	recordno
Wellid:	26108	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW, NW
Datasrc:	PVTP	Est loc ac:	Calc. +/- 140m.
Well type:	Permitted private wells	C p date:	12/02/1999
Depth:	unkn		
Owner name:	Ecker		
Other info:	Primary use: irrigation		
Xcoord:	544654.81		
Ycoord:	4729617		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200167

I38
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200179

Mapid:	82467	Id src fld:	recordno
Wellid:	75030	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW, NW
Datasrc:	TEST	Est loc ac:	Calc. +/- 140m.
Well type:	Wells registered for testing	C p date:	1999
Depth:	125		
Owner name:	Ecker, Bruce		
Other info:	Drilling method: Drilled; Known well depth		
Xcoord:	544640.81		
Ycoord:	4729625		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000200179

I39
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200172

Mapid:	82474	Id src fld:	wnumber
Wellid:	41541	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW, NW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	10/31/1996
Depth:	80		
Owner name:	Bast, Douglas		
Other info:	Bedrock depth 6 ft.		
Xcoord:	544650.72		
Ycoord:	4729619.7		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=41541		
Disperse:	1	Site id:	IAPU10000200172

I40
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200175

Mapid:	82471	Id src fld:	recordno
Wellid:	31636	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW, NW
Datasrc:	PLUG	Est loc ac:	Calc. +/- 140m.
Well type:	Registered abandoned wells	C p date:	n.a.
Depth:	53		
Owner name:	Bast, Doug		
Other info:	Well plugged: 2/26/1998; Well type: < 18" dia.		
Xcoord:	544646.81		
Ycoord:	4729622		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200175

I41
NNE
1/4 - 1/2 Mile
Higher

IA WELLS IAPU10000200178

Mapid:	82468	Id src fld:	recordno
Wellid:	61098	Location:	T. 91 N., R. 14 W., Sec. 1, SW, SW, NW
Datasrc:	TEST	Est loc ac:	Calc. +/- 140m.
Well type:	Wells registered for testing	C p date:	1996
Depth:	80		
Owner name:	Bast, Doug		
Other info:	Drilling method: Drilled; Known well depth		
Xcoord:	544649.81		
Ycoord:	4729625		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000200178

**J42
NW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000200005

Mapid:	82618	Id src fld:	wellnbr
Wellid:	2112603	Location:	T. 91 N., R. 14 W., Sec. 2, SW SE SE NE NE
Datasrc:	PWTS	Est loc ac:	nom. +/- 25m.
Well type:	Private well tracking system	C p date:	1/01/1890
Depth:	35		
Owner name:	Engel, Lyle		
Other info:	Status: Active Use: Household		
Xcoord:	543713.78		
Ycoord:	4729457.4		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200005

**J43
NW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077746

Wellnbr:	2112603	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	2
Qqqqq:	SW SE SE NE NE	Elev:	0
Elev acc:	Not Reported	Well depth:	35
Br depth:	-99	Wtr depth:	-99
Latn:	42.7164		
Longn:	-92.4662		
Dte done:	01/01/1890	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Engel, Lyle		
Cnstr mthd:	Dug		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	543708.78		
Ycoord:	4729460.4		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077746

**J44
NW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPW10000077747

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellnubr:	2112603	Pmtnmbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	2
Qqqqq:	SW SE SE NE NE	Elev:	0
Elev acc:	Not Reported	Well depth:	35
Br depth:	-99	Wtr depth:	-99
Latn:	42.7164		
Longn:	-92.4662		
Dte done:	01/01/1890	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Engel, Lyle		
Cnstr mthd:	Dug		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	543708.78		
Ycoord:	4729460.4		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077747

**45
SW
1/4 - 1/2 Mile
Higher**

IA WELLS IAPU10000199013

Mapid:	83593		
Wellid:	55748	Id src fld:	wnumber
Datasrc:	GEOU	Location:	T. 91 N., R. 14 W., Sec. 11, SE, NW, NW
Well type:	IGS well database	Est loc ac:	Calc. +/- 140m.
Depth:	115	C p date:	2/13/2002
Owner name:	Waverly Soccer Assoc		
Other info:	Bedrock depth 48 ft.		
Xcoord:	543837.4		
Ycoord:	4728389.1		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=55748		
Disperse:	1	Site id:	IAPU10000199013

**K46
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077503

Wellnubr:	2101850	Pmtnmbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NW SE NW SE SW	Elev:	0
Elev acc:	Not Reported	Well depth:	100
Br depth:	15	Wtr depth:	50
Latn:	42.7095		
Longn:	-92.4497		
Dte done:	05/25/1973	Cty num:	0
County:	Bremer		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drlr name:	unknown	Status:	Active
Drlr cmpy:	unknown	Permit:	Not Reported
Owner name:	Riffel, Paul	Renovate:	Not Reported
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household		
Ht pmp no:	0		
Plugging:	Not Reported		
Test:	X		
Xcoord:	545064.83		
Ycoord:	4728702.88		
Has litho:	1	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077503

**K47
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077502

Wellnbr:	2101850	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NW SE NW SE SW	Elev:	909
Elev acc:	10 m. DEM	Well depth:	100
Br depth:	15	Wtr depth:	50
Latn:	42.7095		
Longn:	-92.4497		
Dte done:	05/25/1973	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Riffel, Paul		
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	545064.83		
Ycoord:	4728702.88		
Has litho:	1	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077502

**K48
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199269

Mapid:	83286	Id src fld:	wellnbr
Wellid:	2101850	Location:	T. 91 N., R. 14 W., Sec. 12, NW SE NW SE SW
Datasrc:	PWTS	Est loc ac:	nom. +/- 25m.
Well type:	Private well tracking system	C p date:	5/25/1973
Depth:	100		
Owner name:	Riffel, Paul		
Other info:	Status: Active Use: Household , Bedrock depth: 15		
Xcoord:	545064.83		
Ycoord:	4728695.8		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000199269

**49
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198949

Mapid:	83684	Id src fld:	wnumber
Wellid:	50721	Location:	T. 91 N., R. 14 W., Sec. 12, SW, NW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 285m.
Well type:	IGS well database	C p date:	10/15/1999
Depth:	116		
Owner name:	Burks, Ricky & Connie		
Other info:	Bedrock depth 5 ft.		
Xcoord:	544742.77		
Ycoord:	4728283		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=50721		
Disperse:	1	Site id:	IAPU10000198949

**50
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199168

Mapid:	83383	Id src fld:	wnumber
Wellid:	51868	Location:	T. 91 N., R. 14 W., Sec. 12, NW, SE, SW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	3/22/2000
Depth:	105		
Owner name:	Noel, Tony		
Other info:	Bedrock depth 25 ft.		
Xcoord:	545045.09		
Ycoord:	4728584.3		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=51868		
Disperse:	1	Site id:	IAPU10000199168

**K51
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPR10000017727

Recordno:	26478	Twp:	91
N s:	N	Rge:	14
E w:	W	Sec:	12
Qqqqq:	NW SE SW	Q abc:	BDC
Permit:	00-00124	App role:	O
Appfirst:	TONY	Applast:	NOEL
Appaddr:	1501 18TH AVE SE	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	NOEL	Owneraddr:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ownercity:	WAVERLY	Ownerst:	Not Reported
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	SWSENW12 9114W	Depth:	0
Appdate:	04/06/2000	Prmtdate:	03/14/2000
Use1:	HOUSEHOLD	Use2:	Not Reported
Contname:	SHAWVER WELL CO.	Contid:	Not Reported
Welldrlr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	01/01/2000
E1use1:	Not Reported	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	Not Reported	Agentlast:	Not Reported
Created:	kwillet 05/09/00 10:38:36	Checked:	TOEHLER 05/15/00 10:43:59
Updated:	TOEHLER 05/15/00 10:43:59	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	545050		
Utm y:	4728592.5		
Site id:	IAPR10000017727		

**K52
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPR10000017726

Recordno:	23695	Twp:	91
N s:	N	Rge:	14
E w:	W	Sec:	12
Qqqqq:	NW SE SW	Q abc:	BDC
Permit:	98-802	App role:	O
Appfirst:	TRACY	Applast:	HASKEN
Appaddr:	1701 18TH AVE. SE	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	HASKEN	Owneraddr:	Not Reported
Ownercity:	WAVERLY	Ownerst:	IA
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	SWSENW12 9114W	Depth:	108
Appdate:	08/21/1998	Prmtdate:	08/21/1998
Use1:	HOUSEHOLD	Use2:	Not Reported
Contname:	SHAWVER WELL CO.	Contid:	Not Reported
Welldrlr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	08/21/1998
E1use1:	Not Reported	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	DOUG	Agentlast:	BIRD
Created:	esmith 02/02/99 15:32:36	Checked:	esmith 02/02/99 16:46:19

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Updated:	esmith 02/02/99 16:46:19	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	545050		
Utm y:	4728592.5		
Site id:	IAPR10000017726		

**K53
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199191

Mapid:	83367	Id src fld:	wnumber
Wellid:	46603	Location:	T. 91 N., R. 14 W., Sec. 12, NW, SE, SW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	9/15/1998
Depth:	108		
Owner name:	Haskin, Tracy		
Other info:	Bedrock depth 26 ft.		
Xcoord:	545053.09		
Ycoord:	4728597.3		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=46603		
Disperse:	1	Site id:	IAPU10000199191

**K54
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199198

Mapid:	83364	Id src fld:	recordno
Wellid:	23695	Location:	T. 91 N., R. 14 W., Sec. 12, NW, SE, SW
Datasrc:	PVTP	Est loc ac:	Calc. +/- 140m.
Well type:	Permitted private wells	C p date:	8/21/1998
Depth:	108		
Owner name:	Hasken		
Other info:	Primary use: household		
Xcoord:	545060		
Ycoord:	4728602.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199198

**K55
ESE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199187

Mapid:	83372	Id src fld:	recordno
Wellid:	26478	Location:	T. 91 N., R. 14 W., Sec. 12, NW, SE, SW
Datasrc:	PVTP	Est loc ac:	Calc. +/- 140m.
Well type:	Permitted private wells	C p date:	3/14/2000
Depth:	unkn		
Owner name:	Noel		
Other info:	Primary use: household		
Xcoord:	545059		
Ycoord:	4728594.5		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000199187

**L56
NNE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077872

Wellnbr:	2093493	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SW NW SW NW SE	Elev:	0
Elev acc:	Not Reported	Well depth:	109
Br depth:	-99	Wtr depth:	-99
Latn:	42.72		
Longn:	-92.4547		
Dte done:	01/01/1980	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Sable, Robert O.		
Cnstr mthd:	Unknown		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544647.85		
Ycoord:	4729866.18		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077872

**L57
NNE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077871

Wellnbr:	2093493	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SW NW SW NW SE	Elev:	0
Elev acc:	Not Reported	Well depth:	109
Br depth:	-99	Wtr depth:	-99
Latn:	42.72		
Longn:	-92.4547		
Dte done:	01/01/1980	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Sable, Robert O.		
Cnstr mthd:	Unknown		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544647.85		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ycoord:	4729866.18	Has prod:	0
Has litho:	0	Has constr:	0
Has wq:	1	Site id:	IAPW10000077871
Wnumber:	0		

L58
NNE
1/2 - 1 Mile
Higher

IA WELLS IAPU10000200399

Mapid:	82250	Id src fld:	wellnbr
Wellid:	2093493	Location:	T. 91 N., R. 14 W., Sec. 1, SW NW SW NW SE
Datascr:	PWTS	Est loc ac:	nom. +/- 25m.
Well type:	Private well tracking system	C p date:	1/01/1980
Depth:	109		
Owner name:	Sable, Robert O.		
Other info:	Status: Active Use: Household		
Xcoord:	544650.85		
Ycoord:	4729871.1		
Hlink:	Not Reported	Site id:	IAPU10000200399
Disperse:	1		

M59
NNE
1/2 - 1 Mile
Higher

IA WELLS IAPU10000200417

Mapid:	82230	Id src fld:	wellnbr
Wellid:	2094591	Location:	T. 91 N., R. 14 W., Sec. 1, SW NW SE NW NE
Datascr:	PWTS	Est loc ac:	nom. +/- 25m.
Well type:	Private well tracking system	C p date:	1/01/1980
Depth:	109		
Owner name:	Miller, Kim A.		
Other info:	Status: Active Use: Household		
Xcoord:	544808.2		
Ycoord:	4729895.5		
Hlink:	Not Reported	Site id:	IAPU10000200417
Disperse:	1		

M60
NNE
1/2 - 1 Mile
Higher

IA WELLS IAPW10000077877

Wellnbr:	2094591	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SW NW SE NW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	109
Br depth:	-99	Wtr depth:	-99
Latn:	42.7203		
Longn:	-92.4528		
Dte done:	01/01/1980	Cty num:	0
County:	Bremer		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drlr name:	unknown	Status:	Active
Drlr cmpy:	unknown	Permit:	Not Reported
Owner name:	Miller, Kim A.	Renovate:	Not Reported
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household		
Ht pmp no:	0		
Plugging:	Not Reported		
Test:	X		
Xcoord:	544803.2		
Ycoord:	4729900.5		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077877

**M61
NNE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077878

Wellnbr:	2094591	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SW NW SE NW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	109
Br depth:	-99	Wtr depth:	-99
Latn:	42.7203		
Longn:	-92.4528		
Dte done:	01/01/1980	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Miller, Kim A.		
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	544803.2		
Ycoord:	4729900.5		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077878

**M62
NNE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200473

Mapid:	82194	Id src fld:	recordno
Wellid:	8301	Location:	T. 91 N., R. 14 W., Sec. 1, SW, NW
Datasrc:	TEST	Est loc ac:	Calc. +/- 285m.
Well type:	Wells registered for testing	C p date:	unkn
Depth:	unkn		
Owner name:	Sable, Jean		
Other info:	Drilling method: Drilled;		
Xcoord:	544756.81		
Ycoord:	4729940		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000200473

**N63
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPR10000017696

Recordno:	26104	Twp:	91
N s:	N	Rge:	14
E w:	W	Sec:	12
Qqqqq:	SW SW NE	Q abc:	CCA
Permit:	99-00897	App role:	O
Appfirst:	RICKY	Applast:	BURKS
Appaddr:	2375 FAIRVIEW	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	BURKS	Owneraddr:	Not Reported
Ownercity:	WAVERLY	Ownerst:	IA
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	NESWSW12 9114W	Depth:	0
Appdate:	08/10/1999	Prmtdate:	10/22/1999
Use1:	Not Reported	Use2:	Not Reported
Contname:	SHAWVER WELL CO.	Contid:	Not Reported
Wellrlr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	11/30/1999
E1use1:	Not Reported	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	DOUG	Agentlast:	BIRD
Created:	toehler 02/14/00 12:44:52	Checked:	kwillet 02/14/00 15:30:42
Updated:	kwillet 02/14/00 15:30:42	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	544846.31		
Utm y:	4727986		
Site id:	IAPR10000017696		

**N64
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198708

Mapid:	83972		
Wellid:	26104	Id src fld:	recordno
Datasrc:	PVTP	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SW, NE
Well type:	Permitted private wells	Est loc ac:	Calc. +/- 140m.
Depth:	unkn	C p date:	10/22/1999
Owner name:	Burks		
Other info:	Primary use:		
Xcoord:	544849.31		
Ycoord:	4727986		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000198708

**N65
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198698

Mapid:	83979	Id src fld:	recordno
Wellid:	71303	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SW, NE
Datasrc:	TEST	Est loc ac:	Calc. +/- 140m.
Well type:	Wells registered for testing	C p date:	1999
Depth:	116		
Owner name:	Burks, Ricky		
Other info:	Drilling method: Drilled; Known well depth		
Xcoord:	544846.31		
Ycoord:	4727978		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000198698

**O66
NNE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200567

Mapid:	82105	Id src fld:	recordno
Wellid:	62195	Location:	T. 91 N., R. 14 W., Sec. 1, SW, NW, NE
Datasrc:	TEST	Est loc ac:	Calc. +/- 140m.
Well type:	Wells registered for testing	C p date:	1980
Depth:	109		
Owner name:	Sable, Jean		
Other info:	Drilling method: Drilled; Known well depth		
Xcoord:	544848.31		
Ycoord:	4730039.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200567

**O67
NNE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077952

Wellnibr:	2131236	Pmntnibr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SW NW NE NW SE	Elev:	0
Elev acc:	Not Reported	Well depth:	130
Br depth:	-99	Wtr depth:	-99
Latn:	42.7218		
Longn:	-92.4528		
Dte done:	01/01/1977	Cty num:	0
County:	Bremer		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drlr name:	unknown	Status:	Active
Drlr cmpy:	unknown	Permit:	Not Reported
Owner name:	Ellinger, William	Renovate:	Not Reported
Cnstr mthd:	Cable		
Fm rmk:	Not Reported		
Well use:	Household		
Ht pmp no:	0		
Plugging:	Not Reported		
Test:	X		
Xcoord:	544802.12		
Ycoord:	4730067.06		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW1000077952

P68
NNW
1/2 - 1 Mile
Lower

IA WELLS IAPU10000200688

Mapid:	82009	Id src fld:	wnumber
Wellid:	36791	Location:	T. 91 N., R. 14 W., Sec. 2
Datasrc:	GEOU	Est loc ac:	Calc. +/- 1135m.
Well type:	IGS well database	C p date:	9/09/1981
Depth:	120		
Owner name:	Deike, Ray		
Other info:	Bedrock depth 7 ft.		
Xcoord:	543736.67		
Ycoord:	4730126.9		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=36791		
Disperse:	1	Site id:	IAPU10000200688

P69
NNW
1/2 - 1 Mile
Lower

IA WELLS IAPU10000200702

Mapid:	81989	Id src fld:	recordno
Wellid:	26688	Location:	T. 91 N., R. 14 W., Sec. 2
Datasrc:	PLUG	Est loc ac:	Calc. +/- 1135m.
Well type:	Registered abandoned wells	C p date:	n.a.
Depth:	25		
Owner name:	Lehmann, Mark		
Other info:	Well plugged: 8/15/1996; Well type: unkn		
Xcoord:	543739.69		
Ycoord:	4730139.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200702

Q70
West
1/2 - 1 Mile
Higher

IA WELLS IAPU10000199647

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	82911		
Wellid:	5423	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 11, NW, NW, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	65	C p date:	n.a.
Owner name:	Idot, Idot		
Other info:	Well plugged: 2/3/1992; Well type: < 18" dia.		
Xcoord:	543032.5		
Ycoord:	4729171		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199647

Q71
West
1/2 - 1 Mile
Higher

IA WELLS IAPU10000199670

Mapid:	82894		
Wellid:	14185	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 11, NW, NW, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	45	C p date:	n.a.
Owner name:	Iowa D.o.t.		
Other info:	Well plugged: 2/3/1992; Well type: < 18" dia.		
Xcoord:	543031.5		
Ycoord:	4729181		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199670

Q72
West
1/2 - 1 Mile
Higher

IA WELLS IAPU10000199655

Mapid:	82904		
Wellid:	5424	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 11, NW, NW, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	45	C p date:	n.a.
Owner name:	Idot, Idot		
Other info:	Well plugged: 2/3/1992; Well type: < 18" dia.		
Xcoord:	543025.5		
Ycoord:	4729176		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199655

Q73
West
1/2 - 1 Mile
Higher

IA WELLS IAPU10000199672

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	82892		
Wellid:	14186	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 11, NW, NW, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	65	C p date:	n.a.
Owner name:	Iowa D.o.t.		
Other info:	Well plugged: 2/3/1992; Well type: < 18" dia.		
Xcoord:	543023.5		
Ycoord:	4729182		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199672

**R74
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198496

Mapid:	84121		
Wellid:	22340	Id src fld:	recordno
Datasrc:	PVTP	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SW, SE
Well type:	Permitted private wells	Est loc ac:	Calc. +/- 140m.
Depth:	unkn	C p date:	4/24/1998
Owner name:	Hanfelt		
Other info:	Primary use: household		
Xcoord:	544847.75		
Ycoord:	4727789		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000198496

**R75
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198475

Mapid:	84143		
Wellid:	11746	Id src fld:	recordno
Datasrc:	TEST	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SW, SE
Well type:	Wells registered for testing	Est loc ac:	Calc. +/- 140m.
Depth:	unkn	C p date:	unkn
Owner name:	Yungtum, Dennis		
Other info:	Drilling method: Drilled; Well depth is uncertain		
Xcoord:	544837.75		
Ycoord:	4727781		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000198475

**R76
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPR10000017679

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Recordno:	22340	Twp:	91
N s:	N	Rge:	14
E w:	W	Sec:	12
Qqqqq:	SW SW SE	Q abc:	CCD
Permit:	98-351	App role:	O
Appfirst:	BOB	Applast:	HANFELT
Appaddr:	1515 240TH	Appcity:	Not Reported
Appst:	Not Reported	Appzip:	Not Reported
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	HANFELT	Owneraddr:	1529 240TH
Ownercity:	Not Reported	Ownerst:	Not Reported
Ownerzip:	Not Reported	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	SESWSW12 9114W	Depth:	0
Appdate:	04/23/1998	Prmtdate:	04/24/1998
Use1:	HOUSEHOLD	Use2:	Not Reported
Contname:	SHAWVER	Contid:	Not Reported
Wellldr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	04/28/1998
E1use1:	Not Reported	E1use2:	Not Reported
E1dpth:	0	E1legal:	Not Reported
E1const:	Not Reported	E1status:	Not Reported
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	DOUG	Agentlast:	BIRD
Created:	ehuffma 05/21/98 13:32:43	Checked:	kseals 06/09/98 12:24:21
Updated:	kseals 06/09/98 12:24:21	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	544846.75		
Utm y:	4727784		
Site id:	IAPR10000017679		

R77
SSE
1/2 - 1 Mile
Higher

IA WELLS IAPU10000198488

Mapid:	84130	Id src fld:	wnumber
Wellid:	46266	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SW, SE
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	5/04/1998
Depth:	135		
Owner name:	Hanfelt, Bob		
Other info:	Bedrock depth 4 ft.		
Xcoord:	544854.69		
Ycoord:	4727786.8		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=46266		
Disperse:	1	Site id:	IAPU10000198488

S78
East
1/2 - 1 Mile
Higher

IA WELLS IAPU10000199508

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	83008	Id src fld:	wellnbr
Wellid:	2077615	Location:	T. 91 N., R. 14 W., Sec. 12, NE NW SE NW SE
Datasrc:	PWTS	Est loc ac:	nom. +/- 25m.
Well type:	Private well tracking system	C p date:	3/26/2002
Depth:	115		
Owner name:	Griggs, Timothy B.		
Other info:	Status: Active Use: Household , Bedrock depth: 10		
Xcoord:	545646.32		
Ycoord:	4729036.7		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199508

S79
East
1/2 - 1 Mile
Higher

IA WELLS IAPW10000077564

Wellnbr:	2077615	Pmntnbr:	10815
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NE NW SE NW SE	Elev:	741
Elev acc:	Not Reported	Well depth:	115
Br depth:	10	Wtr depth:	62
Latn:	42.7124		
Longn:	-92.4425		
Dte done:	03/26/2002	Cty num:	0
County:	Bremer		
Drlr name:	Bunting, James		
Drlr cmpy:	B & B Drilling Llc		
Owner name:	Griggs, Timothy B.		
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	X
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	545652.32		
Ycoord:	4729028.77		
Has litho:	1	Has prod:	1
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077564

S80
East
1/2 - 1 Mile
Higher

IA WELLS IAPW10000077565

Wellnbr:	2077615	Pmntnbr:	10815
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	NE NW SE NW SE	Elev:	741
Elev acc:	Not Reported	Well depth:	115
Br depth:	10	Wtr depth:	62
Latn:	42.7124		
Longn:	-92.4425		
Dte done:	03/26/2002	Cty num:	0
County:	Bremer		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drlr name:	Bunting, James	Status:	Active
Drlr cmpy:	B & B Drilling Llc	Permit:	X
Owner name:	Griggs, Timothy B.	Renovate:	Not Reported
Cnstr mthd:	Rotary		
Fm rmk:	Not Reported		
Well use:	Household		
Ht pmp no:	0		
Plugging:	Not Reported		
Test:	X		
Xcoord:	545652.32		
Ycoord:	4729028.77		
Has litho:	1	Has prod:	1
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW1000077565

S81
East
1/2 - 1 Mile
Higher

IA WELLS IAPU10000199472

Mapid:	83053	Id src fld:	wnumber
Wellid:	55769	Location:	T. 91 N., R. 14 W., Sec. 12, NE, NW, SE
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	3/26/2002
Depth:	115		
Owner name:	Griggs, Timothy		
Other info:	Bedrock depth 10 ft.		
Xcoord:	545662.09		
Ycoord:	4728998.1		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=55769		
Disperse:	1	Site id:	IAPU10000199472

T82
SE
1/2 - 1 Mile
Higher

IA WELLS IAPU10000198715

Mapid:	83964	Id src fld:	recordno
Wellid:	20443	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SE, NE
Datasrc:	PVTP	Est loc ac:	Calc. +/- 140m.
Well type:	Permitted private wells	C p date:	3/04/1997
Depth:	130		
Owner name:	Unkn		
Other info:	Primary use: Domestic/household		
Xcoord:	545255.25		
Ycoord:	4727996		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000198715

83
NNW
1/2 - 1 Mile
Higher

IA WELLS IAPU10000200855

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	81749	Id src fld:	recordno
Wellid:	7743	Location:	T. 91 N., R. 14 W., Sec. 2, NE, SW
Datasrc:	TEST	Est loc ac:	Calc. +/- 285m.
Well type:	Wells registered for testing	C p date:	unkn
Depth:	20		
Owner name:	Anderson, Gary & Caroline		
Other info:	Drilling method: Driven; Estimated well depth		
Xcoord:	543941.19		
Ycoord:	4730342.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200855

**U84
NNW
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200771

Mapid:	81880	Id src fld:	recordno
Wellid:	14173	Location:	T. 91 N., R. 14 W., Sec. 2, NW, SE, SE
Datasrc:	PLUG	Est loc ac:	Calc. +/- 140m.
Well type:	Registered abandoned wells	C p date:	n.a.
Depth:	10		
Owner name:	First Baptist Church		
Other info:	Well plugged: 7/1/1991; Well type: > 18" dia.		
Xcoord:	543641.5		
Ycoord:	4730228.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200771

**T85
SE
1/2 - 1 Mile
Lower**

IA WELLS IAPR10000017695

Recordno:	20443	Tw:	91
N s:	N	Rge:	14
E w:	W	Sec:	12
Qqqqq:	SW SE NE	Q abc:	CDA
Permit:	97-00141	App role:	Not Reported
Appfirst:	KIM	Applast:	FOX
Appaddr:	2380 FERM AVE	Appcity:	WAVERLY
Appst:	IA	Appzip:	50677
Appphone:	Not Reported	Ownerfirst:	Not Reported
Ownerlast:	Not Reported	Owneraddr:	Not Reported
Ownercity:	WAVERLY	Ownerst:	Not Reported
Ownerzip:	50677	Ownerphone:	Not Reported
County:	9	Status:	Not Reported
Legal:	NESESW12 9114W	Depth:	130
Appdate:	03/04/1997	Prmtdate:	03/04/1997
Use1:	2 Domestic	Use2:	Not Reported
Contname:	SHAWVER	Contid:	Not Reported
Wellldr:	Not Reported	Certnum:	Not Reported
Constguess:	Not Reported	Const:	03/31/1997
E1use1:	2 Domestic	E1use2:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

E1dpth:	0	E1legal:	NESESW12 9114W
E1const:	Not Reported	E1status:	3
E2use1:	Not Reported	E2use2:	Not Reported
E2dpth:	0	E2legal:	Not Reported
E2const:	Not Reported	E2status:	Not Reported
E3use1:	Not Reported	E3use2:	Not Reported
E3dpth:	0	E3legal:	Not Reported
E3const:	Not Reported	E3status:	Not Reported
Agentfirst:	DOUG	Agentlast:	BIRD
Created:	pheesch 04/16/97 15:19:32	Checked:	esmith 05/06/97 13:07:57
Updated:	esmith 05/06/97 13:07:57	Prm recs:	0
Well p:	0	Well e:	0
Utm x:	545253.25		
Utm y:	4727988		
Site id:	IAPR10000017695		

T86
SE
1/2 - 1 Mile
Lower

IA WELLS IAPU10000198699

Mapid:	83975	Id src fld:	wnumber
Wellid:	42901	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SE, NE
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	3/11/1997
Depth:	115		
Owner name:	Fox, Kim		
Other info:	Bedrock depth 4 ft.		
Xcoord:	545248.2		
Ycoord:	4727980.7		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=42901		
Disperse:	1	Site id:	IAPU10000198699

U87
NNW
1/2 - 1 Mile
Higher

IA WELLS IAPU10000200783

Mapid:	81874	Id src fld:	recordno
Wellid:	5416	Location:	T. 91 N., R. 14 W., Sec. 2, NW, SE, SE
Datasrc:	PLUG	Est loc ac:	Calc. +/- 140m.
Well type:	Registered abandoned wells	C p date:	n.a.
Depth:	10		
Owner name:	First Baptist Ch, First Baptis		
Other info:	Well plugged: 7/1/1991; Well type: > 18" dia.		
Xcoord:	543646.5		
Ycoord:	4730238.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200783

88
West
1/2 - 1 Mile
Higher

IA WELLS IAPW10000077539

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellnubr:	2130292	Pmntnubr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	10
Qqqqq:	NE NE SE SE SE	Elev:	0
Elev acc:	Not Reported	Well depth:	100
Br depth:	-99	Wtr depth:	-99
Latn:	42.7113		
Longn:	-92.4762		
Dte done:	01/01/1940	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Stoffregen, Jerry		
Cnstr mthd:	Unknown		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	542893.46		
Ycoord:	4728888.96		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077539

89
WSW
1/2 - 1 Mile
Higher

IA WELLS IAPU10000199003

Mapid:	83615		
Wellid:	17789	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 11, SW, NW, NW
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	95	C p date:	n.a.
Owner name:	Hussin, John		
Other info:	Well plugged: 4/24/1995; Well type: > 18" dia.		
Xcoord:	543026.94		
Ycoord:	4728371.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199003

90
NE
1/2 - 1 Mile
Higher

IA WELLS IAPU10000200562

Mapid:	82104		
Wellid:	21858	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 1, SW, NE, NE
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	75	C p date:	n.a.
Owner name:	Iserman, Mildred		
Other info:	Well plugged: 10/5/1995; Well type: < 18" dia.		
Xcoord:	545254.81		
Ycoord:	4730040		
Hlink:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000200562

**V91
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198487

Mapid:	84124	Id src fld:	recordno
Wellid:	52233	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SE, SW
Datasrc:	TEST	Est loc ac:	Calc. +/- 140m.
Well type:	Wells registered for testing	C p date:	1973
Depth:	70		
Owner name:	Hanfelt, Bob		
Other info:	Drilling method: Drilled; Known well depth		
Xcoord:	545044.31		
Ycoord:	4727788		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000198487

**V92
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198503

Mapid:	84120	Id src fld:	recordno
Wellid:	11745	Location:	T. 91 N., R. 14 W., Sec. 12, SW, SE, SW
Datasrc:	TEST	Est loc ac:	Calc. +/- 140m.
Well type:	Wells registered for testing	C p date:	unkn
Depth:	unkn		
Owner name:	Hanfelt, Robert		
Other info:	Drilling method: Drilled; Well depth is uncertain		
Xcoord:	545055.31		
Ycoord:	4727792		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000198503

**93
WSW
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198903

Mapid:	83752	Id src fld:	wnumber
Wellid:	31995	Location:	T. 91 N., R. 14 W., Sec. 11, SW, NW, NW
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	12/06/1955
Depth:	35		
Owner name:	Drappe Property		
Other info:	Bedrock depth 1 ft.		
Xcoord:	543090.47		
Ycoord:	4728216.3		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=31995		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000198903

**V94
SSE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077201

Wellnbr:	2131241	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	12
Qqqqq:	SW SE SW SW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	115
Br depth:	-99	Wtr depth:	-99
Latn:	42.7008		
Longn:	-92.4505		
Dte done:	01/01/1972	Cty num:	0
County:	Bremer		
Drlr name:	unknown		
Drlr cmpy:	unknown		
Owner name:	Yungtum, Dennis		
Cnstr mthd:	Unknown		
Fm rmk:	Not Reported		
Well use:	Household	Status:	Active
Ht pmp no:	0	Permit:	Not Reported
Plugging:	Not Reported	Renovate:	Not Reported
Test:	X		
Xcoord:	545005.6		
Ycoord:	4727736.38		
Has litho:	0	Has prod:	0
Has wq:	1	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077201

**W95
ENE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199830

Mapid:	82701	Id src fld:	wnumber
Wellid:	31233	Location:	T. 91 N., R. 14 W., Sec. 1, SE, SW, SE, SE, NE
Datasrc:	GEOU	Est loc ac:	Calc. +/- 35m.
Well type:	IGS well database	C p date:	1/01/1990
Depth:	150		
Owner name:	Waverly, City Of		
Other info:	Bedrock depth unkn		
Xcoord:	545732.12		
Ycoord:	4729364.2		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=31233		
Disperse:	1	Site id:	IAPU10000199830

**W96
ENE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199835

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	82698	Id src fld:	wnumber
Wellid:	31233	Location:	T. 91 N., R. 14 W., Sec. 1, SE, SW, SE, SE, NE
Datasrc:	PUB	Est loc ac:	Calc. +/- 35m.
Well type:	Public wells	C p date:	1/01/1990
Depth:	150		
Owner name:	Waverly, City Of		
Other info:	Bedrock depth unkn; Well status: Active; Local id: #7		
Xcoord:	545735.12		
Ycoord:	4729366.2		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=31233		
Disperse:	1	Site id:	IAPU10000199835

**W97
ENE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199871

Mapid:	82678	Id src fld:	permit_
Wellid:	2222	Location:	T91N, R14W, Sec. 1
Datasrc:	MUNW	Est loc ac:	Calc. +/- 1135m.
Well type:	Public water supply intakes	C p date:	n.a.
Depth:	n.a.		
Owner name:	Waverly		
Other info:	n.a.		
Xcoord:	545730.28		
Ycoord:	4729392.9		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199871

**98
SSW
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000198299

Mapid:	84306	Id src fld:	recordno
Wellid:	31562	Location:	T. 91 N., R. 14 W., Sec. 14, NE, NW, NW
Datasrc:	PLUG	Est loc ac:	Calc. +/- 140m.
Well type:	Registered abandoned wells	C p date:	n.a.
Depth:	84		
Owner name:	Wenger, Clara		
Other info:	Well plugged: 2/2/1998; Well type: < 18" dia.		
Xcoord:	543830.44		
Ycoord:	4727575.5		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000198299

**X99
ENE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200169

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	82469		
Wellid:	14199	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 1, SE, SW, NE
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	100	C p date:	n.a.
Owner name:	G.m.t. Corporation		
Other info:	Well plugged: 5/29/1992; Well type: < 18" dia.		
Xcoord:	545654		
Ycoord:	4729625		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200169

**X100
ENE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200166

Mapid:	82470		
Wellid:	5439	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 1, SE, SW, NE
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	100	C p date:	n.a.
Owner name:	Gmt Corporation, Gmt Corp		
Other info:	Well plugged: 5/29/1992; Well type: < 18" dia.		
Xcoord:	545656		
Ycoord:	4729623		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200166

**X101
ENE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200156

Mapid:	82473		
Wellid:	14198	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 1, SE, SW, NE
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	100	C p date:	n.a.
Owner name:	Gmt Corporation		
Other info:	Well plugged: 5/29/1992; Well type: < 18" dia.		
Xcoord:	545667		
Ycoord:	4729620		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200156

**Y102
WSW
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199171

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	83399		
Wellid:	4073	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 10, NE, SE, SE
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	6	C p date:	n.a.
Owner name:	Faelske, Duane		
Other info:	Well plugged: 7/2/1990; Well type: < 18" dia.		
Xcoord:	542826		
Ycoord:	4728572		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199171

**Y103
WSW
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000199179

Mapid:	83393		
Wellid:	4074	Id src fld:	recordno
Datasrc:	PLUG	Location:	T. 91 N., R. 14 W., Sec. 10, NE, SE, SE
Well type:	Registered abandoned wells	Est loc ac:	Calc. +/- 140m.
Depth:	74	C p date:	n.a.
Owner name:	Michael Aubrey, Duane Foelsk		
Other info:	Well plugged: 7/2/1990; Well type: < 18" dia.		
Xcoord:	542824		
Ycoord:	4728578		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000199179

**Z104
NE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077929

Wellnmb:	2118151	Pmntnmb:	22521
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SE NW NW SW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	110
Br depth:	12	Wtr depth:	-99
Latn:	42.7214		
Longn:	-92.4448		
Dte done:	01/10/2007	Cty num:	0
County:	Bremer		
Drir name:	Jones, Randy		
Drir cmpy:	Shawver Well Co.		
Owner name:	Not Reported		
Cnstr mthd:	Rotary		
Fm rnk:	A 12<" hole was drilled to 20' and 10" temporary casing was installed. A 10" hole was drilled to 81'. The well was then cased		
Well use:	Commercial	Status:	Retired
Ht pmp no:	0	Permit:	X
Plugging:	Not Reported	Renovate:	Not Reported
Test:	Not Reported		
Xcoord:	545457.41		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ycoord:	4730026.92	Has prod:	1
Has litho:	1	Has constr:	0
Has wq:	0	Site id:	IAPW10000077929
Wnumber:	0		

**Z105
NE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000077928

Wellnubr:	2118151	Pmntnubr:	22521
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	SE NW NW SW NE	Elev:	0
Elev acc:	Not Reported	Well depth:	110
Br depth:	12	Wtr depth:	-99
Latn:	42.7214		
Longn:	-92.4448		
Dte done:	01/10/2007	Cty num:	0
County:	Bremer		
Drlr name:	Jones, Randy		
Drlr cmpy:	Shawver Well Co.		
Owner name:	Not Reported		
Cnstr mthd:	Rotary		
Fm rnk:	A 12<" hole was drilled to 20' and 10" temporary casing was installed. A 10" hole was drilled to 81'. The well was then cased		
Well use:	Commercial	Status:	Permitted
Ht pmp no:	0	Permit:	X
Plugging:	Not Reported	Renovate:	Not Reported
Test:	Not Reported		
Xcoord:	545457.41		
Ycoord:	4730026.92		
Has litho:	1	Has prod:	1
Has wq:	0	Has constr:	0
Wnumber:	0	Site id:	IAPW10000077928

**Z106
NE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200549

Mapid:	82112		
Wellid:	2118151	Id src fld:	wellnubr
Datasrc:	PWTS	Location:	T. 91 N., R. 14 W., Sec. 1, SE NW NW SW NE
Well type:	Private well tracking system	Est loc ac:	nom. +/- 25m.
Depth:	110	C p date:	1/10/2007
Owner name:	Unknown		
Other info:	Status: Permitted Use: Commercial , Bedrock depth: 12		
Xcoord:	545457.41		
Ycoord:	4730031.9		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200549

**Z107
NE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200554

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapid:	82110	Id src fld:	wnumber
Wellid:	63728	Location:	T. 91 N., R. 14 W., Sec. 1, SE, NW, NW, SW, NE
Datasrc:	GEOU	Est loc ac:	Calc. +/- 35m.
Well type:	IGS well database	C p date:	1/10/2007
Depth:	110		
Owner name:	Hiester, Gaylen		
Other info:	Bedrock depth 12 ft.		
Xcoord:	545467		
Ycoord:	4730034		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=63728		
Disperse:	1	Site id:	IAPU10000200554

**108
NE
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200458

Mapid:	82195	Id src fld:	recordno
Wellid:	865	Location:	T. 91 N., R. 14 W., Sec. 1, SE, NW
Datasrc:	PLUG	Est loc ac:	Calc. +/- 285m.
Well type:	Registered abandoned wells	C p date:	n.a.
Depth:	60		
Owner name:	Schneider, Gary		
Other info:	Well plugged: 6/9/1989; Well type: unkn		
Xcoord:	545552.81		
Ycoord:	4729935		
Hlink:	Not Reported		
Disperse:	1	Site id:	IAPU10000200458

**109
WNW
1/2 - 1 Mile
Higher**

IA WELLS IAPU10000200158

Mapid:	82488	Id src fld:	wnumber
Wellid:	4603	Location:	T. 91 N., R. 14 W., Sec. 3, SE, SE, NE
Datasrc:	GEOU	Est loc ac:	Calc. +/- 140m.
Well type:	IGS well database	C p date:	1/01/1950
Depth:	90		
Owner name:	Nelson, Lester		
Other info:	Bedrock depth unkn		
Xcoord:	542838.8		
Ycoord:	4729602.5		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=4603		
Disperse:	1	Site id:	IAPU10000200158

**110
WSW
1/2 - 1 Mile
Higher**

FED USGS USGS2559922

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	424224092283601
Site name:	091N14W10DAA 15802		
Latitude:	424224		
Longitude:	0922836	Dec lat:	42.70664787
Dec lon:	-92.47685181	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	19
State:	19	County:	017
Country:	US	Land net:	NENESES10 T091N R14W 5
Location map:	WAVERLY	Map scale:	24000
Altitude:	945.00		
Altitude method:	Altimeter		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Cedar. Iowa, Minnesota. Area = 1730 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19630826
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	95.0	Hole depth:	95.0
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	0000-00-00	Water quality data end date:	0000-00-00
Water quality data count:	0		
Ground water data begin date:	1963-08-26	Ground water data end date:	1963-08-26
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1963-08-26	44.00	

111
NE
1/2 - 1 Mile
Higher

IA WELLS IAPU10000200712

Mapid:	81975	Id src fld:	wnumber
Wellid:	36852	Location:	T. 91 N., R. 14 W., Sec. 1
Datasrc:	GEOU	Est loc ac:	Calc. +/- 1135m.
Well type:	IGS well database	C p date:	1/31/1980
Depth:	127		
Owner name:	Stummen Lumber Co.		
Other info:	Bedrock depth 29 ft.		
Xcoord:	545367.17		
Ycoord:	4730159.9		
Hlink:	http://gsbdata.igsb.uiowa.edu/geosam/Scripts/geocard.asp?wnumber=36852		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Disperse: 1 Site id: IAPU10000200712

**112
SW
1/2 - 1 Mile
Higher**

FED USGS USGS2559918

Agency cd:	USGS	Site no:	424208092282201
Site name:	091N14W11CC 10107		
Latitude:	424208		
Longitude:	0922822	Dec lat:	42.70220353
Dec lon:	-92.47296291	Coor meth:	M
Coor accr:	T	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	19
State:	19	County:	017
Country:	US	Land net:	SWSW S11 T091N R14W 5
Location map:	WAVERLY	Map scale:	24000
Altitude:	955.00		
Altitude method:	Altimeter		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Cedar. Iowa, Minnesota. Area = 1730 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19580426
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	103	Hole depth:	103
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data end date:	Not Reported	Daily flow data begin date:	Not Reported
Peak flow data begin date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data count:	Not Reported	Peak flow data end date:	Not Reported
Water quality data end date:	Not Reported	Water quality data begin date:	Not Reported
Ground water data begin date:	Not Reported	Water quality data count:	Not Reported
Ground water data count:	Not Reported	Ground water data end date:	Not Reported

Ground-water levels, Number of Measurements: 0

**113
NE
1/2 - 1 Mile
Higher**

IA WELLS IAPW10000078035

Wellnbr:	2130252	Pmntnbr:	Not Reported
Twp:	91	Rge:	14
Ew:	W	Sec:	1
Qqqqq:	NW SE SE NW NW	Elev:	0
Elev acc:	Not Reported	Well depth:	115
Br depth:	-99	Wtr depth:	-99
Latn:	42.724		
Longn:	-92.4479		
Dte done:	02/01/2007	Cty num:	0
County:	Bremer		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drlr name:	unknown	Status:	Active
Drlr cmpy:	unknown	Permit:	Not Reported
Owner name:	Helmets, Larry	Renovate:	Not Reported
Cnstr mthd:	Unknown		
Fm rmk:	Not Reported		
Well use:	Household	Has prod:	0
Ht pmp no:	0	Has constr:	0
Plugging:	Not Reported	Site id:	IAPW10000078035
Test:	X		
Xcoord:	545201.71		
Ycoord:	4730313.97		
Has litho:	0		
Has wq:	1		
Wnumber:	0		

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
50677	0.1	49.7	5.1	596	298	298	77	10	0	0

Federal EPA Radon Zone for BREMER 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: 50677

Number of sites tested: 9

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	10.967 pCi/L	22%	67%	11%

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 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

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 and 2005 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.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

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.

STATE RECORDS

All Known Water Wells in the State of Iowa

Source: Department of Natural Resources

Telephone: 319-335-1353

Well types included are agricultural drainage, permitted private, public, registered abandoned, SDWIS public, water use permit sites, wells registered for testing.

Permitted Private Wells

Source: Department of Natural Resources

Telephone: 319-335-1353

This is a point coverage for private wells for which permits have been issued since 1987. Most permits were recorded in counties which are in the state drinking water program.

Private Well Tracking System Wells

Source: Department of Natural Resources

Telephone: 319-335-1353

OTHER STATE DATABASE INFORMATION

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

STREET AND ADDRESS INFORMATION

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APPENDIX H
HISTORICAL USE DOCUMENTATION



Waverly Yard Waste Site

1301 1st Street SE

Waverly, IA 50677

Inquiry Number: 2575615.5

September 03, 2009

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography September 03, 2009

Target Property:

1301 1st Street SE
Waverly, IA 50677

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1972	Aerial Photograph. Scale: 1"=750'	Panel #: 2442092-F4/Flight Date: May 31, 1972	EDR
1983	Aerial Photograph. Scale: 1"=1000'	Panel #: 2442092-F4/Flight Date: May 08, 1983	EDR
1990	Aerial Photograph. Scale: 1"=750'	Panel #: 2442092-F4/Flight Date: March 25, 1990	EDR
1994	Aerial Photograph. Scale: 1"=750'	Panel #: 2442092-F4/Flight Date: April 22, 1994	EDR
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR



INQUIRY #: 2575615.5

YEAR: 1972

 = 750'





INQUIRY #: 2575615.5

YEAR: 1983

 = 1000'





INQUIRY #: 2575615.5

YEAR: 1990

 = 750'





INQUIRY #: 2575615.5

YEAR: 1994

 = 750'





INQUIRY #: 2575615.5

YEAR: 2005

 = 604'





Waverly Yard Waste Site

1301 1st Street SE

Waverly, IA 50677

Inquiry Number: 2575615.4

August 27, 2009

The EDR Historical Topographic Map Report

EDR 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 resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

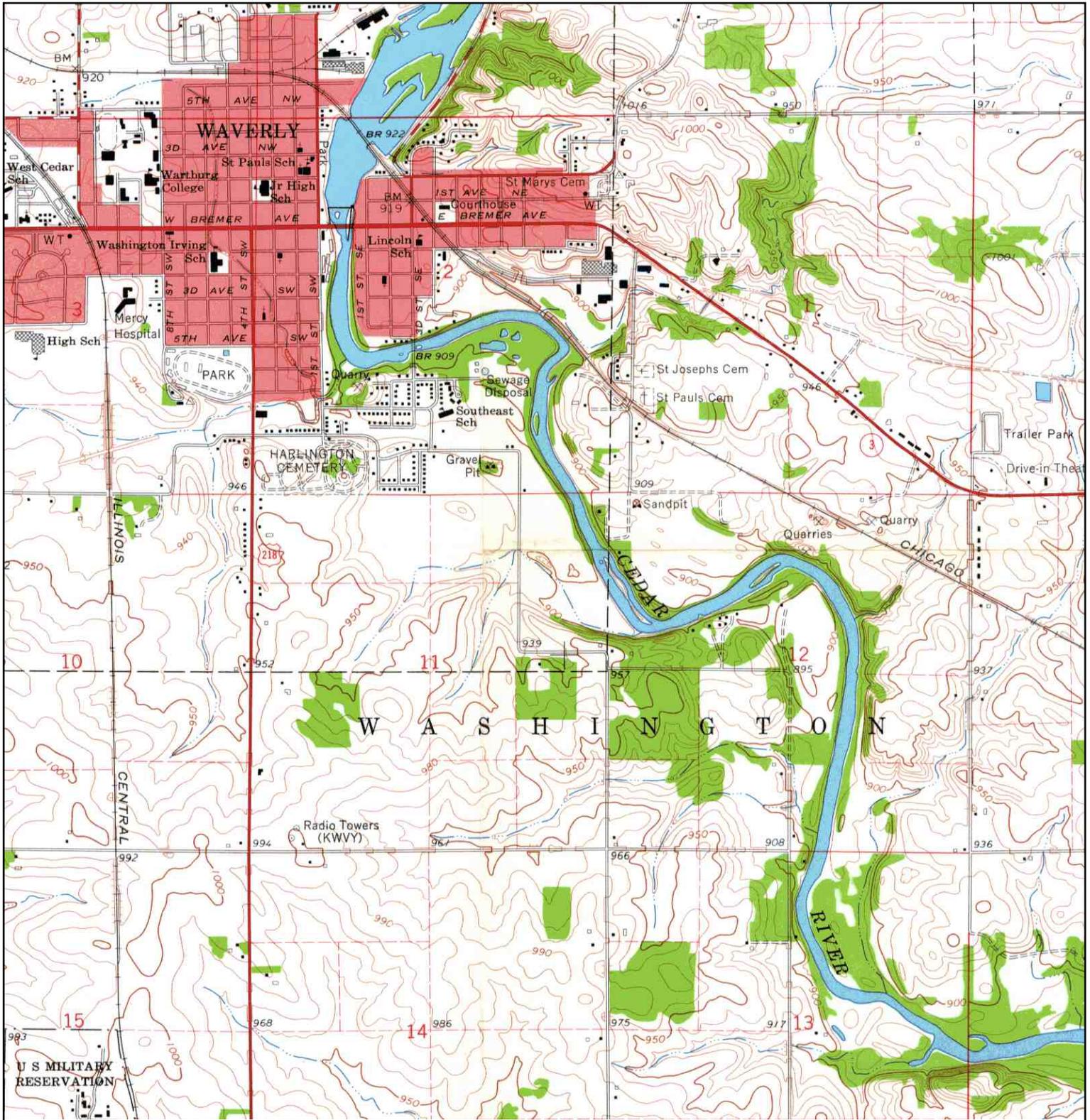
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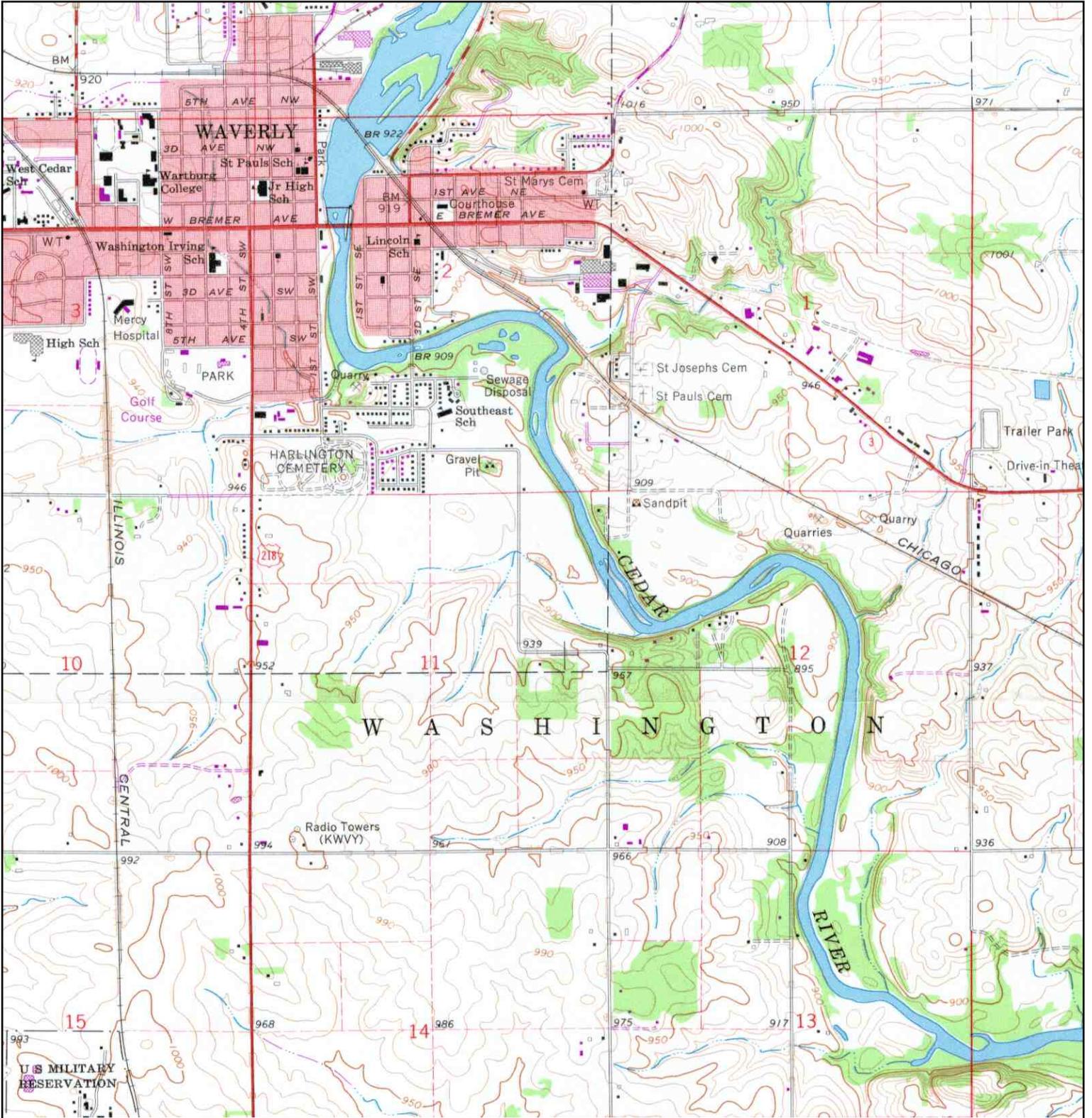
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Historical Topographic Map



<p>N</p>	TARGET QUAD	SITE NAME:	Waverly Yard Waste Site	CLIENT:	Seagull Env. Technologies
	NAME: WAVERLY	ADDRESS:	1301 1st Street SE	CONTACT:	Jeff Pritchard
	MAP YEAR: 1963	LAT/LONG:	42.7122 / 92.4591	INQUIRY#:	2575615.4
	SERIES: 7.5			RESEARCH DATE:	08/27/2009
	SCALE: 1:24000				

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Waverly Yard Waste Site	CLIENT:	Seagull Env. Technologies
	NAME: WAVERLY	ADDRESS:	1301 1st Street SE	CONTACT:	Jeff Pritchard
	MAP YEAR: 1972	LAT/LONG:	Waverly, IA 50677	INQUIRY#:	2575615.4
	PHOTOREVISED FROM: 1963			RESEARCH DATE:	08/27/2009
	SERIES: 7.5				
	SCALE: 1:24000				



Waverly Yard Waste Site

1301 1st Street SE

Waverly, IA 50677

Inquiry Number: 2575615.3

August 27, 2009



Certified Sanborn® Map Report

Certified Sanborn® Map Report

8/27/09

Site Name:

Waverly Yard Waste Site
1301 1st Street SE
Waverly, IA 50677

Client Name:

Seagull Env. Technologies
731 Limestone Dr
Prosper, TX 75078



EDR Inquiry # 2575615.3

Contact: Jeff Pritchard

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Seagull Env. Technologies were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Waverly Yard Waste Site
Address: 1301 1st Street SE
City, State, Zip: Waverly, IA 50677
Cross Street:
P.O. # EPS70901.0007
Project: Waverly Yard Wa
Certification # 5ECE-4A83-9B86



Sanborn® Library search results
Certification # 5ECE-4A83-9B86

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Waverly Yard Waste Site

1301 1st Street SE
Waverly, IA 50677

Inquiry Number: 2575615.6
August 31, 2009

The EDR-City Directory Abstract

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2009	Polk's City Directory	-	X	X	-
2005	Polk's City Directory	-	X	X	-
2000	Polk's City Directory	-	X	X	-
1995	Polk's City Directory	-	X	X	-
1990	Polk's City Directory	-	X	X	-
1985	Polk's City Directory	-	X	X	-
1980	Polk's City Directory	-	X	X	-
1975	Polk's City Directory	-	X	X	-
1970	Polk's City Directory	-	X	X	-
1965	Polk's City Directory	-	X	X	-
1961	Polk's City Directory	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1301 1st Street SE
Waverly, IA 50677

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

1st Street SE

1st Street SE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	No address listings 1200- 1301 range 1st SE	Polk's City Directory
2005	No address listings 1200- 1301 range 1st SE	Polk's City Directory
2000	No address listings beyond 1106 1st St SE	Polk's City Directory
1995	No address listings beyond 1106 1st St SE	Polk's City Directory
1990	No address listings beyond 1106 1st St SE	Polk's City Directory
1985	No address listings beyond 1106 1st St SE	Polk's City Directory
1980	No address listings beyond 1106 1st St SE	Polk's City Directory
1975	No address listings beyond 1106 1st St SE	Polk's City Directory
1970	No address listings beyond 1102 1st St SE	Polk's City Directory
1965	No address listings beyond 1022 1st St SE	Polk's City Directory
1961	No address listings beyond 918 1st St SE	Polk's City Directory

1401 1st Street SE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Residential	Polk's City Directory
2005	Residential	Polk's City Directory

1405 1st Street SE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Residential	Polk's City Directory
2005	Residential	Polk's City Directory

1501 1st Street SE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Residential	Polk's City Directory
2005	Residential	Polk's City Directory

FINDINGS

TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

Address Researched

1301 1st Street SE

Address Not Listed in Research Source

2009, 2005, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1965, 1961

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched

1401 1st Street SE

1405 1st Street SE

1501 1st Street SE

Address Not Listed in Research Source

2000, 1995, 1990, 1985, 1980, 1975, 1970, 1965, 1961

2000, 1995, 1990, 1985, 1980, 1975, 1970, 1965, 1961

2000, 1995, 1990, 1985, 1980, 1975, 1970, 1965, 1961

APPENDIX I

ASSESSOR AND ENVIRONMENTAL PROFESSIONAL RESUMES



GREGORY R. DILLON
Environmental Scientist

SPECIALTIES

- Removal Site Evaluations
- CERCLA Site Assessments
- Field Screening

EDUCATION

- B.G.S., Environmental Studies, Minor in Sociology, University of Kansas, Lawrence, Kansas

RELEVANT EXPERIENCE

Mr. Dillon serves as an Environmental Scientist for environmental site assessment and cleanup activities conducted under the United States Environmental Protection Agency (EPA) Region 7 Superfund Technical Assessment and Response Team (START) and mini-START contracts. Under those contracts, Mr. Dillon has managed and participated in Targeted Brownfields Assessments, pre-Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Screenings, Integrated Site Assessments (ISA), and removal actions. For those sites, he has developed quality assurance project plans (QAPP), conducted site background research, and interviewed involved parties to identify potential contamination. Field work at those sites has included contacting property owners on a door-to-door basis to obtain access for sampling, and collecting multi-media samples for field screening and laboratory analysis. Mr. Dillon has also been a secondary responder for emergency response activities.

In addition, Mr. Dillon has experience as a lab and field assistant for the Kansas Biological Survey (KBS). As a lab assistant, Mr. Dillon was responsible for sorting and numeration of central plains aquatic macroinvertebrate samples to order level. Mr. Dillon was also able to achieve taxonomic identification of Ephemeroptera, Trichoptera, and Hemiptera down to genus level. As a field assistant, Mr. Dillon participated in the 2007 EPA Lakes Survey, the 2008 National Rivers and Streams Assessment, and the 2008-2009 Missouri River Tributaries Assessment. He was responsible for water sample collection and filtration, macroinvertebrate collection, electroshock fishing, physical habitat assessment, boat operation and navigation, sample preparation, and shipping and surveying.

Mr. Dillon also participated in the National Rivers and Streams Assessment EPA Region 7 Field Training Workshop.

EMPLOYMENT HISTORY

Seagull Environmental Technologies, Inc., Overland Park, Kansas, Environmental Scientist,
March 2009 to Present.

Kansas Biological Survey: Central Plains Center for Bioassessment (CPCB), Lawrence, Kansas, Field
and Lab Assistant, 2006 to 2008.

TRAINING

40-Hour Hazardous Waste Operations Training, Overland Park, Kansas, 2009

EPA Hazard Ranking System Training, Kansas City, Kansas, 2009

National Rivers and Streams Assessment EPA Region 7 Field Training Workshop, Kansas City, Kansas,
2009

Niton XRF Training, Kansas City, Kansas, 2009

ICS-200 Training, Overland Park, Kansas, 2009

CPR and First Aid Certification, Kansas City, Kansas, 2009



JEFFREY E. PRITCHARD
Senior Environmental Scientist

SPECIALTIES

- CERCLA/OPA/Counter-terrorism Emergency Responses
- Removal Site Evaluations
- CERCLA Site Assessments
- Removal Actions
- Enforcement Support
- Field Screening
- Air Monitoring
- SPCC Plan Review/Inspections

EDUCATION

- B.G.S., Environmental Studies, University of Kansas, Lawrence, Kansas

PROFESSIONAL CERTIFICATIONS

- Certified Hazardous Materials Manager – Master Level
- NIOSH 582 Certified Microscopist
- AHERA Asbestos Inspector
- Licensed Well Driller Contractor, Missouri and Iowa

RELEVANT EXPERIENCE

Mr. Pritchard has over 10 years of experience in emergency response and environmental site assessment and cleanup activities. Mr. Pritchard has been with Seagull Environmental Technologies, Inc., for more than 6 years, where he has served as a staff Environmental Scientist and Project Manager. During his tenure with the company, he has effectively proven his ability to maintain strong customer relationships, efficiently use corporate resources, and successfully manage multi-disciplinary teams, as required to meet contractual and project obligations. He has successfully managed over 65 projects under the United States Environmental Protection Agency (EPA) Region 7 Superfund Technical Assessment and Response Team (START) contracts (START I, II, and III, from 1999 to present) and the EPA Region 7 Technical Assistance (TA) contract (from 2001 to 2005). Mr. Pritchard currently serves as the Deputy Readiness Coordinator for the EPA Region 7 START III contract. Mr. Pritchard has managed or participated in over 150 site assessments, 65 emergency responses, and 35 removal actions. He has prepared budget estimates; project cost tracking summaries; quality assurance project plans (QAPP); and reports for emergency responses, Removal Site Evaluations (RSE), Pre-Comprehensive Environmental Response, Compensation, and Liability Information System (Pre-CERCLIS) screening assessments, Preliminary Assessments (PA), Site Inspections (SI), Integrated Site Assessments (ISA), Expanded Site Inspections (ESI), Targeted Brownfields Assessments (TBA), and Spill Prevention, Control, and Countermeasures (SPCC) inspections.

Mr. Pritchard has extensive knowledge and experience with direct-push technology, which he has applied at numerous EPA and private sector projects. Furthermore, Mr. Pritchard has conducted training on direct-push technology to clients. Mr. Pritchard is also a certified asbestos inspector and trained microscopist. The experiences gained from working with various federal, state, and local agencies, along with private sectors, have not only provided Mr. Pritchard with knowledge of relevant and applicable environmental laws, protocols, and standard operating procedures (SOP), but also the skill set associated with community involvement.

Before joining Seagull, Mr. Pritchard was a project manager for the EPA Region 7 START 1 contract from 1999 to 2000. From 1998 to 1999, Mr. Pritchard was the environmental coordinator for a private water utility company, where his duties involved establishing a sampling and analysis program to ensure federal and state compliance for the company's 100-plus water systems.

Emergency Response

Mr. Pritchard has participated in over 65 emergency responses in the last 8 years. For those responses, he has assessed multiple situations that have included: counter-terrorism incidents, natural disasters, explosive chemicals, toxic air releases, oil spills, abandoned containers, tire fires, mercury spills, and illegal chemical storage and distribution activities.

In 2007, Mr. Pritchard responded to two chemical plant fires in Kansas City, Missouri, and Des Moines, Iowa. Mr. Pritchard coordinated response activities with state and federal emergency responders. Response activities included the collection of real-time air quality data and multi-media samples. Sample results were used to evaluate contaminant exposure levels and the necessity for follow up cleanup activities.

In 2002, Mr. Pritchard responded to a tire fire in Nebraska City, Nebraska, where four grain silos containing recycled rubber tires had caught fire and exploded. During the two-week response, Mr. Pritchard was responsible for documenting site conditions, conducting air sampling and real-time air monitoring, and coordinating the containment, sampling, and disposal of oil and wastewater generated from the ongoing fire-fighting efforts. In addition, Mr. Pritchard corresponded with regulatory authorities from the State of Nebraska and the United States Army Corps of Engineers to ensure compliance with all applicable laws and regulations.

In 2001, he responded to a recycling facility in Macy, Nebraska, where 200 drums and containers had been abandoned. Mr. Pritchard conducted an entry in Level B personal protective equipment (PPE) to inventory and sample the abandoned containers. He performed hazard classification field screening, determined appropriate waste streams, and collected additional samples for waste disposal profiling. The data generated from the response was used to assist EPA and local officials with coordinating proper disposal of the containers.

At the Creighton Chemical site, Mr. Pritchard led emergency response activities to assess numerous containers of degraded cyanide and other poisons formerly used for wildlife and pest control. Mr. Pritchard conducted sampling activities in Level B PPE, air monitoring, field screening of materials using a HazMat ID portable Fourier Transform Infrared (FTIR) spectrometer, and packaging of segregated waste streams for proper disposal.

In 2004, Mr. Pritchard conducted emergency response activities at the Omaha Fireworks site, where 200 pounds of explosive materials were discovered. Mr. Pritchard assisted authorities from EPA; the Bureau of

Alcohol, Tobacco, and Firearms (ATF); and the Omaha Sheriff's Department with identifying and segregating compatible chemicals and materials for safe transport and cost-effective disposal.

Since 2000, Mr. Pritchard has responded to more than 25 spills of elemental mercury. Those spills have occurred at residences, schools, hospitals, and commercial businesses. At those sites, Mr. Pritchard performed real-time air monitoring and air sampling to confirm cleanup goals had been achieved, and conducted oversight of cleanup activities to ensure the proper removal of mercury-contaminated materials.

Site Assessments

CERCLA Site Assessments and Removal Site Evaluations

Mr. Pritchard has participated in a wide variety of site assessment activities that have involved the following types of contaminants: fumigants, solvents, wood treatment byproducts, chemical warfare agents, metals, pesticides, herbicides, perchlorate, and wastes derived from Former Manufactured Gas Plants (FMGP).

Mr. Pritchard has managed on-going site assessment activities at the West Highway 6 and Highway 281 site in Hastings, Nebraska. Mr. Pritchard manages a project team that collects quarterly groundwater samples from a network of 30 monitoring wells and monthly collection of samples from the site's soil vapor extraction (SVE) system and groundwater treatment system. Sample data is compiled and evaluated to determine the need for additional assessment work.

Mr. Pritchard managed site assessment, demolition, and removal of entire city blocks (including existing buildings and structures) as part of the City of Kansas City, Missouri, KC Live Project. Management responsibilities included assessment of environmental media, quantification of contamination as well as the coordination of demolition activities and proper disposal of contaminated subsurface soils/media. In addition, on-site project management duties involved oversight of the complete interior gutting and asbestos/mold abatement of a historic downtown theater for future renovation.

In 2002, Mr. Pritchard led a project team that assessed more than 100 former wood treatment facilities in Missouri. The team evaluated historical information to identify the former sites. Once identified, field team members conducted site visits where information was collected to document current site conditions and potential contamination of environmental media.

Mr. Pritchard managed the Clarke County Pesticide site, where over 250 containers of banned pesticides and herbicides were suspected to have been buried. He conducted sampling of soil, surface water, and groundwater, and coordinated a geotechnical survey to locate the buried materials.

Mr. Pritchard has conducted PA/SIs at numerous Formerly Used Defense Sites (FUDS) in EPA Region 7, including Schilling Atlas sites, Forbes Atlas sites, Lincoln Atlas sites, Garden City Army Airfield, and Ainsworth Army Airfield. At those sites, he managed field teams that collected thousands of multi-media samples (soil, groundwater, surface water, sediment, and air) to provide data necessary for Hazard Ranking System (HRS) scoring.

At the Albert City SBA site in Albert City, Iowa, Mr. Pritchard led field activities that involved sampling drinking water wells, monitoring wells, storm sewers, soil, and indoor air for volatile organic compounds

(VOC). The data were incorporated into a RSE report to assist EPA with evaluating the need for further Superfund response at the site.

At numerous START sites across EPA Region 7, Mr. Pritchard has conducted sampling of ambient air, indoor air, and soil gas to evaluate potential threats to human health from vapor intrusion via contaminated soil and groundwater.

Targeted Brownfields Assessments

Under the EPA Region 7 START and TA contracts, Mr. Pritchard has managed or participated in several Targeted Brownfields Assessments, including the Lakeside Salvage site, American Recycling site, Bonne Terre Mining site, and Waterloo Dry Cleaner site. In 2004, Mr. Pritchard managed a TBA at the Springfield FMGP site, where multi-media samples were collected to assess contamination associated with the former FMGP, which operated at three separate locations. The site involved coordination with federal, state, and local officials, as well as private entities.

Removal Actions

Mr. Pritchard was the project manager at the Prime Western Smelter site in Gas, Kansas, where 100,000 cubic yards of lead-contaminated soil was removed. Mr. Pritchard led a field team that characterized the 100-acre site for lead-contaminated soil using a Niton x-ray fluorescence (XRF) spectrometer. During the removal activities, Mr. Pritchard coordinated excavation activities, conducted air sampling to ensure the public was not exposed to fugitive releases of lead-contaminated dust, and verified the achievement of cleanup goals following excavation.

In Omaha, Nebraska, Mr. Pritchard managed the Former Lorenz Chemical site, which included a RSE and subsequent removal action. During the RSE, Mr. Pritchard utilized direct-push technology to delineate the vertical and horizontal extent of contaminated soil. Based on those results, 4,000 tons of pesticide-contaminated soil was excavated during a subsequent removal action. During the removal activities, he operated six high-volume PS-1 air samplers around the site perimeter to assess threats to human health and the environment posed by the removal activities. In addition, Mr. Pritchard monitored the work of site contractors to ensure cost effectiveness, timeliness, and compliance with contract specifications.

In Carthage, Missouri, he managed the Show Me Chrome site, where 3,000 gallons of plating-related wastes were removed for proper disposal. Mr. Pritchard characterized the plating wastes and conducted oversight on the safe and proper removal of the wastes for transfer to a disposal facility.

At the lead-contaminated Lohman Property site in Peoria, Kansas, he compiled subsurface sampling data based on Niton XRF screening for lead in soils. The data were used to plan for the removal of 1,000 tons of lead-contaminated soil from the site.

Mr. Pritchard managed the Ava Chlordane site, where chlordane had been sprayed in an occupied duplex residence. He collected air and dust/wipe samples from the residence to evaluate threats posed to the residents. Sampling data were also utilized to assist EPA with establishing cleanup levels. Removal

activities involved a complete interior cleaning and encapsulation of the residence, followed by air sampling to confirm achievement of the cleanup levels.

Mr. Pritchard managed the removal of mercury-contaminated material from several residences in Missouri Valley, Iowa, where over 10 pounds of elemental mercury had been spilled. His responsibilities included documentation of the cleanup activities, which involved the removal of carpet, flooring, wood decking, concrete, and personal items. In addition, Mr. Pritchard collected samples of the waste streams for evaluating disposal options.

Preparedness and Prevention

Homeland Security

Mr. Pritchard has been trained on numerous issues associated with large-scale Homeland Security-related incidents, including counter-terrorism. He has received extensive training for response to incidents involving nuclear, biological, and chemical warfare agents. In addition, Mr. Pritchard has received advanced-level training on the Incident Command System (ICS).

Mr. Pritchard has been a participant in several EPA-sponsored exercises involving emergency responses to chemical, biological, and radiological incidents. In 2004, at the large-scale EPA Region 7 exercise entitled “Ruby Slippers”, Mr. Pritchard was a hazardous materials expert on a field team comprised of EPA radiation personnel. He was tasked to identify hazardous materials, particularly those presenting a radiation threat, which could endanger human health and the environment. Mr. Pritchard utilized real-time air monitoring equipment and a personal data assistant (PDA) to record air monitoring results and transfer the information to the Command Post to enable rapid display of the data.

Mr. Pritchard was a member of the exercise development team that created and implemented a 3-day exercise to evaluate the state of Missouri’s response capabilities to a catastrophic earthquake. Mr. Pritchard developed exercise documents including player handbooks and the exercise plan. In addition, Mr. Pritchard served as a controller/evaluator for the functional exercise. Lessons and insight gathered from the exercise were compiled in an after action report to be used to facilitate change/improvement in the state’s response strategies/capabilities.

Other Technical Support

Federal Disaster Support

In 2007, Mr. Pritchard led EPA Region 7 START contractors in response to an EF-5 tornado that destroyed Greensburg, Kansas. Mr. Pritchard led a multi-disciplinary team of emergency responders and technical support personnel that provided services to local, state, and federal entities. Initial response activities included, but were not limited to, conducting air monitoring throughout the City and providing technical assistance and oversight during the response to releases and potential releases of hazardous materials. In response to the tornado-related damage and the recovery assistance required, FEMA tasked EPA with an ESF-10 mission assignment. Mr. Pritchard managed the ESF-10 mission assignment activities that addressed recovery and proper handling/disposal of HHW and white goods, assessment and removal of PCB-contaminated media related to tornado-damaged electrical transformers (including

characterization of damaged transformers), and collection of multi-media samples (as needed) to ensure protection of human health and the environment. Specific ESF-10 site activities included collection of soil samples from staging and disposal areas prior to their use for cleanup activities to determine baseline concentrations; real-time air monitoring for particulates and other contaminants; air sampling for site-related contaminants (asbestos, metals, and PAHs); and collection of bulk samples from structural and demolition debris for asbestos analysis to determine safe demolition techniques. Additional ESF-10 activities included an assessment of the City's power grid to identify and characterize transformer oil spills at areas potentially contaminated with PCBs, excavation of PCB-contaminated soil associated with those spills, and characterization of the recovered transformers to determine disposal/recycling options.

In 2006, Mr. Pritchard supported EPA Region 4 in the response to Hurricane Katrina. In the hurricane-devastated areas of coastal Mississippi, Mr. Pritchard conducted reconnaissance of flooded areas for hazardous materials. He identified "orphan" containers of hazardous materials and monitored retrieval of the materials to central staging areas for characterization.

Spill Prevention, Control, and Countermeasure Inspections

Mr. Pritchard was the project manager for START field teams that assisted EPA in conducting SPCC inspections of facilities and plans. His responsibilities were to correspond with EPA to determine the level of effort needed to complete the required inspections over a short time period, coordinate field teams, provide equipment and supplies necessary to fulfill inspection requirements, and complete post-inspection reports.

Air Quality Studies

Mr. Pritchard has conducted ambient air monitoring and sampling at numerous hazardous waste sites involved with removal activities and site assessment investigations. For the Region 7 START contract, Mr. Pritchard has been responsible for the maintenance and calibration of PS-1 high-volume samplers and low-volume personal sampling pumps. In addition, Mr. Pritchard has developed air monitoring and sampling work plans and trained START members on proper procedures for conducting air quality investigations.

EMPLOYMENT HISTORY

Seagull Environmental Technologies, Inc., Overland Park, Kansas, Environmental Scientist, 2001 to Present.

Ecology and Environment, Inc., Overland Park, Kansas, Environmental Scientist, 1999 to 2001.

U.S. Utilities, Inc., Valdosta, Georgia and Columbia, South Carolina, Environmental Coordinator, 1998 to 1999.

Environmental Specialist, Douglas, Georgia, Environmental Scientist, 1997 to 1998.

TRAINING

40-Hour Hazardous Waste Operations Training, Buffalo, New York, 1999

8-Hour Refresher Training, Overland Park, Kansas, Annually from 1999 to Present

Regional Hazardous Material Transportation (DOT), Buffalo, New York, 1999

Incident Command Level Training for Nuclear, Biological, and Chemical Emergency Responder, Kansas City, Kansas, 2001

(TRAINING CONTINUED)

EPA Advance Radiation Response Training, Kansas City, Kansas, 2004
SCBA Operation and Maintenance Training, Lenexa, Kansas, 2002
ER/CT Response Training, Lenexa, Kansas, 2004
Field Documentation Training, Lenexa, Kansas, 2004
Niton Spectrometer Analyzer Radiation Safety Training, Kansas City, Kansas, 2004
Field Screening Technologies, Lenexa, Kansas, 2004
Level A Personal Protective Equipment Response, Lenexa, Kansas, 2001
Clandestine Methamphetamine Laboratory Response Training, Ames, Iowa, 2001
Confined Space Entry and Rescue Training Course, Lenexa, Kansas, 2001
Freshwater Oil Spill Symposium, New Orleans, Louisiana, 2004
SENSIR HazMatID, Overland Park, Kansas, 2004
Air Monitoring for Hazardous Materials, Ft. Leavenworth, Kansas, 2003
Incident Command System, Basic I-200 for Federal Disaster Workers, Lenexa, Kansas, 2004
Incident Command System, I-300, Duluth, Georgia, 2005
Scribe Database Training, Lenexa, Kansas, 2004
Hazard Ranking System Training, Kansas City, Kansas, 2005
NIOSH 582 Microscopy, Lawrence, Kansas, 2006
AHERA Asbestos Inspector Training, Lawrence, Kansas, 2006