

# Phase I Environmental Site Assessment (Rev-1)

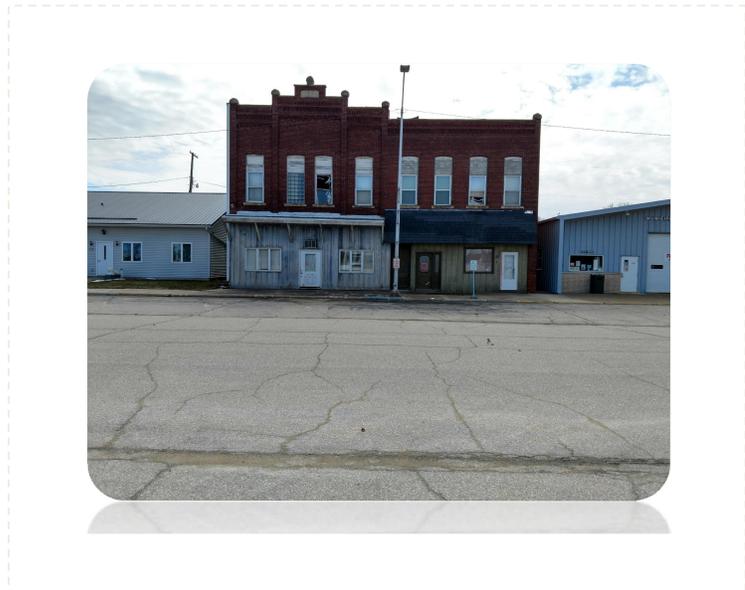
ECIA Brownfields Assessment Services

211 & 213 East Broadway Street

Stanwood, Cedar County, IA

July 21, 2021

Terracon Project No. 07207086



**Prepared for:**

East Central Iowa Intergovernmental Association  
Dubuque, Iowa

**Prepared by:**

Terracon Consultants, Inc.  
Bettendorf, Iowa

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**Terracon**

Environmental



Facilities



Geotechnical



Materials

July 21, 2021



East Central Iowa Intergovernmental Association  
7600 Commerce Park  
Dubuque, IA 52002-9673

Attn: Ms. Elizabeth Kemp  
P: (563) 556-4166

Re: Phase I Environmental Site Assessment (Rev-1)  
ECIA Brownfields Assessment Services  
211 & 213 East Broadway Street  
Stanwood, Cedar County, Iowa 52337  
Terracon Project No. 07207086

Dear Ms. Kemp:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with the Standard Consultant Contract for Qualified Environmental Professional (QEP) Consultant Contract, ECIA Brownfield Coalition dated December 3, 2020 and the Notice to Proceed - Phase I on 211-213 Broadway, Stanwood dated March 9, 2021.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terracon's services please visit our website at [www.terracon.com](http://www.terracon.com).

If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,  
**Terracon Consultants, Inc.**

For: Joshua F. Cox  
Environmental Scientist

Liam J. Bayly  
Senior Project Manager

Dennis R. Sensenbrenner, PG  
Senior Associate

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## TABLE OF CONTENTS

	Page No.
<b>EXECUTIVE SUMMARY .....</b>	<b>i</b>
Findings and Opinions .....	i
Significant Data Gaps .....	iii
Conclusions .....	iii
Recommendations .....	iv
<b>1.0 INTRODUCTION .....</b>	<b>1</b>
1.1 Site Description .....	1
1.2 Scope of Services.....	1
1.3 Standard of Care .....	2
1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps.....	2
1.5 Reliance.....	3
1.6 Client Provided Information.....	3
<b>2.0 PHYSICAL SETTING .....</b>	<b>4</b>
<b>3.0 HISTORICAL USE INFORMATION .....</b>	<b>5</b>
3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps.....	5
3.2 Historical City Directories.....	6
3.3 Site Ownership .....	7
3.4 Title Search.....	7
3.5 Environmental Liens and Activity and Use Limitations .....	7
3.6 Interviews Regarding Current and Historical Site Uses.....	7
3.7 Prior Report Review .....	8
<b>4.0 RECORDS REVIEW .....</b>	<b>8</b>
4.1 Federal and State/Tribal Databases.....	8
4.2 Local Agency Inquiries.....	10
<b>5.0 SITE RECONNAISSANCE .....</b>	<b>11</b>
5.1 General Site Information.....	11
5.2 Overview of Current Site Occupants .....	12
5.3 Overview of Current Site Operations.....	12
5.4 Site Observations .....	12
<b>6.0 ADJOINING PROPERTY RECONNAISSANCE.....</b>	<b>15</b>
<b>7.0 DECLARATION.....</b>	<b>15</b>

TABLE OF CONTENTS (continued)

**APPENDICES**

APPENDIX A	Exhibit 1 - Topographic Map, Exhibit 2 - Site Diagram
APPENDIX B	Site Photographs
APPENDIX C	Historical Documentation and User Questionnaire
APPENDIX D	Environmental Database Information
APPENDIX E	Credentials
APPENDIX F	Description of Terms and Acronyms

## EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with the Standard Consultant Contract For Qualified Environmental Professional (QEP) Consultant Contract, ECIA Brownfield Coalition dated December 3, 2020 and the Notice to Proceed - Phase I on 211-213 Broadway, Stanwood dated March 9, 2021 and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Mr. Liam J. Bayly, Environmental Professional. Mr. Joshua F. Cox performed the site reconnaissance on March 18, 2021.

### Findings and Opinions

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

#### Site Description and Use

The site consists of two (2) parcels with Parcel numbers, acreage and building square footage as follows:

Address	Parcel Number	Acreage	Bldg Sqft
211 Broadway St	0460-02-24-308-007	0.074	2080
213 Broadway St	0460-02-24-308-008	0.046	3464

Both parcels are developed with one (1) 2-story structure each with square footage as identified above. The buildings are currently unoccupied.

#### Historical Information

Based on our review of historical information, it appears that the site was developed in 1900. By 1915 it appears that the site is being used as a City Hall/Fire Department and Confectionary (candy store). The site appears to be utilized for commercial purposes from 1936 to at least 2016. The site was utilized as an insurance office and apartments from June 2016 to April 2020. The City of Stanwood acquired the property in 2020 and are the current owners of the site. The site is currently unoccupied. The historical use of the site does not represent a recognized environmental condition (REC).

The 1915 Sanborn map depicts the properties to the north, west and east are utilized for commercial purposes (general stores, barbers, game halls, and offices). From the 1936 to 2020 the north, west and east properties appear to be utilized for commercial purposes. The 1915 Sanborn map depicts an oil containment system that appears to be located on the adjoining

## Phase I Environmental Site Assessment

ECIA Brownfields Assessment Services ■ Stanwood , IA

March 30, 2021 ■ Terracon Project No. 07207086



property to the south and is situated along the property boundary. This is further confirmed on the 1950 through 1980 aerial photo's. Based on the topographic gradient and uncertainty of property boundaries this does represent RECs to the site.

### Records Review

According to Terracon's records review, the property located at 209 Broadway Street, adjoining the west property boundary, was identified on the Underground Storage Tanks (UST) databases. The facility reportedly had a 500-gallon UST installed in 1967 and was removed in 1987. In April of 1988 two soil samples were collected from the approximate former UST location. Analytical results of soil samples did not indicate the presence of contaminants of concern at concentration exceeding IDNR Statewide standards. Based on distance and Iowa Department of Natural Resources (IDNR) documents it appears a water sample was not collected when confirmatory sampling occurred; therefore, a potential release to the groundwater from the former UST could have adversely impacted the site and is considered a REC to the site.

Jacks Feed & Grain Inc. is located at 201 E. Broadway Street approximately 138 feet southwest and down-gradient of the subject site. The facility is listed in the Resources Conservation and Recovery Act (RCRA) NonGen, FINDS, and ECHO databases. Historically the facility was registered as a generator of ignitable waste and phosphate. RCRA violations were not identified for the property. Based on distance and regulatory status, the facility is not considered a REC to the site.

### Site Reconnaissance

The site was observed to be developed with two 2-story structures: The first structure is addressed 211 Broadway Street is approximately 2,080 sq ft; and the second structure is addressed 213 Broadway Street and is and approximate 3,780 sq ft. Both buildings are currently unoccupied. Trash and debris were observed in both buildings including furniture, appliances, and miscellaneous building material. Significant water and structural damage was observed throughout the both buildings at the time of the site reconnaissance. The exterior wall on the south side of the building located at 213 Broadway has partially collapsed. Staining, odors, or other indications of a hazardous release were not observed at the time of the site reconnaissance. Based on site reconnaissance, RECs were not identified associated with the current site operations.

During the site visit, Terracon noted painted surfaces that could potentially be lead based. Terracon also noted several building materials that could be asbestos containing.

### Adjoining Properties

During the site reconnaissance the following were observed on the adjoining/adjacent properties:

- North: a bank and vacant lot;
- East: a masonic lodge;
- South: a vacant lot and railroad tracks;

- West: a Stanwood Municipal building.

Indications of RECs were not observed with the current adjoining properties.

### Significant Data Gaps

No significant data gaps were identified.

### Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E 1527-13 for the ECIA Brownfields Assessment Services located at 211 & 213 Broadway Street, Stanwood, Cedar County, Iowa, the site. Terracon did identify RECs or Controlled RECs (CRECs) for the site.

- A potential release to the groundwater from the former UST on the adjoining west property could have adversely impacted the site, and
- The adjoining property to the south identified as having an oil containment system.

This table summarizes the findings discussed in the above executive summary.

### Executive Summary Table

Report Component	Sec.	REC <sup>1</sup>	CREC <sup>2</sup>	HREC <sup>3</sup>	De Min <sup>4</sup>	FurtherAction	Comments
Current Property Use	1.0						Unoccupied
Adjacent Properties	6.0						Commercial properties
Historical Review	3.0	1				<b>Phase II Recommended</b>	Sanborn map identified an oil containment system on adjoining south of the site
Previous Reports	3.7						
User Provided Information	1.6						None
Regulatory Database Review	4.0	1				<b>Phase II Recommended</b>	UST on the adjoining west property
Site Reconnaissance:	5.0						Significant trash and debris were present
• Hazardous Materials	5.4						
• Petroleum Materials	5.4						
Interviews	3.6						
ASTM Non-Scope:	1.2						
• Lead Based Paint	5.1					Survey for LBP recommended prior to demo or renovation	Survey needed to assess lead content of painted surfaces.

<ul style="list-style-type: none"> <li>Asbestos</li> </ul>	5.1					Survey for ACM must be conducted prior to demo or renovation	Potential ACM onsite.
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- Recognized Environmental Condition – See Definition*
- <sup>2</sup> *Controlled Recognized Environmental Condition – See Definition*
- <sup>3</sup> *Historical Recognized Environmental Condition – See Definition*
- <sup>4</sup> *De Minimis Condition – See Definition*

## Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon recommends conducting additional investigation to evaluate subsurface conditions associated with the identified RECs.

## 1.0 INTRODUCTION

### 1.1 Site Description

Site Name	ECIA Brownfields Assessment Services
Site Location/Address	211 & 213 East Broadway Street, Stanwood, Cedar County, Iowa
Land Area	Approximately 0.12 acres
Site Improvements	Two (2) 2-story commercial buildings
Anticipated Future Site Use	Redeveloped by city of Stanwood
Purpose of the ESA	Due diligence in support of acquisition of the property

The location of the site is depicted on **Exhibit 1** of **Appendix A**, which was reproduced from a portion of the USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as **Exhibit 2** of **Appendix A**. Acronyms and terms used in this report are described in **Appendix F**.

### 1.2 Scope of Services

This Phase I ESA was performed in accordance with the Standard Consultant Contract For Qualified Environmental Professional (QEP) Consultant Contract, ECIA Brownfield Coalition dated December 3, 2020 and the Notice to Proceed - Phase I on 211-213 Broadway, Stanwood dated March 9, 2021 and was conducted consistent with the procedures included in ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

ASTM E1527-13 contains a new definition of "migrate/migration," which refers to "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface." By including this explicit reference to migration in ASTM E1527-13, the Standard clarifies that the potential for vapor migration should be addressed as part of a Phase I ESA. This Phase I ESA has considered vapor migration in evaluation of RECs associated with the site.

### **1.3 Standard of Care**

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

### **1.4 Additional Scope Limitations, ASTM Deviations and Data Gaps**

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e. evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- The Cedar County health department did not respond within the timeframe of this report.
- Historical resources were not available back to first developed use of the site, as the earliest standard historical resource, 1915 Sanborn map, showed the site as being structurally developed. Based on the general historical use of the site as

## Phase I Environmental Site Assessment

ECIA Brownfields Assessment Services ■ Stanwood , IA

March 30, 2021 ■ Terracon Project No. 07207086



industrial and having RECs, the absence of historical resources back to first developed use is not considered a significant data gap.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

### 1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of East Central Iowa Intergovernmental Association. Use or reliance by any other party is prohibited without the written authorization of East Central Iowa Intergovernmental Association and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement. The limitation of liability defined in the Agreement is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-13 Sections 4.6 and 4.8. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-13.

### 1.6 Client Provided Information

Prior to the site visit, Client Representative, Stephanie VonBehren, was asked to provide the following user questionnaire information as described in ASTM E1527-13 Section 6.

### Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.			X
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.		X	
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.			X
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.			X
Obvious Indicators of Contamination at the site.		X	

Terracon’s consideration of the client provided information did not identify RECs to the site. A copy of the Questionnaire is included in **Appendix C**

## 2.0 PHYSICAL SETTING

Physical Setting Information		Source
<b>Topography</b>		
Site Elevation	Approximately 842 feet above sea level	USGS Topographic Map, Topo Stanwood, Iowa, 2013
Topographic Gradient	Gently sloping toward the southwest based on site observations and review of topographic maps	
Closest Surface Water	Rock Creek, approximately 3,580 feet to the southwest of the site	
<b>Soil Characteristics</b>		
Soil Type	Tama Silty clay, two to five percent slopes	Soil Survey Geographic Database, Web Soil Survey, accessed March 2021
Description	Tama soils are well-drained with a parent material of fine-silty loess over interfluvies. Typical soil profile to a depth of 60 inches is silty clay loam.	

Physical Setting Information		Source
<b>Geology/Hydrogeology</b>		
Formation	Silurian Formation	Iowa State Geological Survey, Bedrock of Iowa, 2010
Description	The Silurian Formation consists of Scotch Grove with dolomite and chert.	
Estimated Depth to First Occurrence of Groundwater	Estimated to occur within approximately 20 feet below ground surface (bgs).	Terracon's working knowledge of the site area.
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the west south west).	

\* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

### 3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in **Appendix C**.

#### 3.1 Historical Topographic Maps, Aerial Photographs, Sanborn Maps

Readily available historical USGS topographic maps, selected historical aerial photographs (at approximately 10 to 15 year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs and Sanborn maps are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. EDR provided Sanborn maps as summarized below.

- Topographic map: Tipton West, Iowa, published in **1965** and **2013** (1: 24,000)
- Topographic map: Tipton East, Iowa, published in **2013** (1: 24,000)
- Topographic map: Clarence, Iowa, published in **2013** (1: 24,000)
- Topographic map: Stanwood, Iowa, published in **1965** and **2013** (1: 24,000)
- Topographic map: Stanwood, Iowa, published in **1901** (1: 125,000)
- Topographic map: Tipton, Iowa, published in **1889** and **1890** (1: 62,500)
- Aerial photograph: EDR, **1936, 1950, 1956, 1963, 1975, 1984, 1994, 2005, 2008, 2011, 2014, and 2017** (1" = 500')
- Sanborn map: EDR, **1915**

### Historical Maps and Aerial Photographs

Direction	Description
Site	The 1915 Sanborn map depicts that the site was utilized as an office, City Hall/Fire Department, and Confectionary (candy store). The 1936 aerial photo indicates that the site is occupied by apparent commercial structures. No significant changes were noted between 1915 and 2017.
North	The 1915 Sanborn map depicts the north properties with a general store, hardware store, and barber. The 1936 aerial photograph depicts apparent commercial properties to the north. No significant changes to the north properties were noted between 1936 and 2017.
East	The 1915 Sanborn map depicts the east properties consisted of a post office followed by a billiards hall (game hall). The 1936 aerial photo indicates the east properties are occupied by apparent commercial structures. The 1984 aerial indicates the east property appears to be vacant land with no significant changes through 1994. By 2005 the east property appears to be occupied by a commercial structure. No significant differences were noted between the 2005 and 2017 aerial photos.
South	The 1915 Sanborn map depicts the properties to the south with an oil and coal containment system followed by railroad tracks. The 1936 aerial photo depicts apparent vacant land followed by apparent railroad tracks and ASTs. No significant differences were noted between the 1936 and 1980 aerial photos. The ASTs are not long depicted after the 1980 aerial photos through 2017.
West	The 1915 Sanborn map depicts the west properties with an office and meat(butcher?) shop. The 1936 aerial photo indicates an apparent vacant land followed by commercial structures with no apparent significant changes through 1975. By 1984 the west property has been developed into an apparent commercial structure. No significant differences were noted between the 1984 and 2017 aerial photos.

The historical review did identify an oil containment system (observed ASTs in aerial photos) located on the adjoining property to south of the site in the 1915 Sanborn map and the aerial photos through 1980. Based on our review of available property records, aerial photographs and the Sanborn map, it is unclear where the southern property boundary of the subject site is located. Consequently, based on the topographic gradient and uncertainty of property boundaries the oil containment system does represent a REC to the site.

### 3.2 Historical City Directories

The City Directory Comp city directories used in this study were made available through City Directory Source (selected years reviewed: 1992-2017) and were reviewed at approximate five-year intervals, if readily available. Street listings not available prior to 1992. The current street address for the site was identified as 211 & 213 East Broadway Street.

### Historical City Directories

Direction	Description
Site	<u>211 E Broadway Street</u> : Residential (1995-2014) <u>213 E Broadway Street</u> : Residential (2000-2017); Noeller Insurance (2014)
North	<u>216 E Broadway Street</u> : Community State Bank (2014-2017)
East	No Listings
South	No Listings
West	<u>209 E Broadway Street</u> : Stanwood City (1995-2017)

### 3.3 Site Ownership

Based on a review of information obtained from the Cedar County assessor’s records, the current site owner is the City of Stanwood.

### 3.4 Title Search

A title search for activity use limitations and environmental liens from was not requested by the client; therefore, a title search was not added to the scope of services of the Phase I ESA. Based on conversation with the client, Terracon assumes that a title search will be conducted by a future bone fide prospective purchaser of the property.

### 3.5 Environmental Liens and Activity and Use Limitations

The EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

### 3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were interviewed regarding the current and historical use of the site.

#### Interviews

Interviewer	Name / Phone #	Title	Date/Time
Joshua F. Cox	Stephanie VonBehren 563-942-3340	Site Manager City of Stanwood	3-18-2021

Terracon interviewed Ms. Stephanie VonBehren, who is the owner for the site. Ms. Stephanie VonBehren stated the following:

- She has been familiar with the site for approximately one (1) plus years.
- She informed Terracon that the site was owned by Jerad Brown from 2016 to 2020.
- The site had been occupied by an insurance office and apartments.
- She knows that site is currently vacant.
- She is not aware of historic or current USTs or ASTs containing hazardous materials or petroleum products located on site.
- She was not aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

### **3.7 Prior Report Review**

Terracon requested the client provide any previous environmental reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

## **4.0 RECORDS REVIEW**

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

### **4.1 Federal and State/Tribal Databases**

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in **Appendix D**.

### Federal Databases

Database	Description	Distance (miles)	Listings
CERCLIS	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	0
CERCLIS / NFRAP	Comprehensive Environmental Response, Compensation, & Liability Information System/No Further Remedial Action Planned	0.5	0
ERNS	Emergency Response Notification System	Site	0
IC / EC	Institutional Control/Engineering Control	Site	0
NPL	National Priorities List	1	0
NPL (Delisted)	National Priorities Delisted List	0.5	0
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act	Site and adjoining properties	1
RCRA Non-CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	1

### State/Tribal Databases

Database	Description	Distance (miles)	Listings
Brownfields	Brownfields Sites	0.5	0
IC	Institutional Control Sites	Site	0
LUST	Leaking Underground Storage Tanks	0.5	6
SHWS	State Hazardous Waste Site	0.5	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
UST	Underground Storage Tanks	Site and adjoining properties	1
VCP	Voluntary Response Program	0.5	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in **Appendix D**.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

### Listed Facilities

Facility Name And Location	Estimated Distance / Direction/Gradient	Database Listings	Is a REC, CREC, or HREC to the Site
City of Stanwood 209 E. Broadway	Approximately 16 feet / west / cross-gradient	UST	REC
Jacks Feed & Grain Inc 201 E. Broadway	Approximately 138 feet / west / cross-gradient	RCRA NON-GEN, FINDS, ECHO	No, see discussion below

#### The City Stanwood (209 E. Broadway)

This facility was identified approximately 16 feet west and cross-gradient of the site. The facility is listed in the UST databases. The facility had a 500-gallon gasoline UST installed on 4/1/1965 and removed on 9/1/1987. In April of 1988 two soil samples were taken in the approximate location of the removed tank. The samples did not report contamination above a method reporting limit. Based on distance, and review of IDNR documents, it appears a water sample was not collected; therefore, a potential release to the groundwater from the former UST could have adversely impacted the site and is considered a REC to the site.

#### Jacks Feed & Grain Inc (201 E. Broadway)

This facility was identified approximately 138 feet west and cross-gradient of the subject site. The facility is listed in the RCRA NonGen, FINDS, and ECHO databases. Historically the facility was registered as a generator of ignitable waste and phorate. RCRA violations were not identified for the property. Based on the distance and regulatory status, the facility is not considered a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report did not list facilities in the unmapped section.

## 4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Cedar County Health Department/ via online public records request portal	The Cedar County Health Department was contacted regarding environmental records for the site. To date, a response has not yet been received. If the Cedar County Health Department responds with information that alters the findings and opinions of this Phase I ESA, Terracon will provide an addendum that amends this report.

Agency Contacted/ Contact Method	Response
Stanwood Fire Department / via the online public records request portal	The Stanwood Fire Department was contacted regarding environmental records for the site via the online public records request portal. The Stanwood Fire Department responded stating that they have no records of hazardous materials, incidents, or underground/above storage tanks for the site.
Stanwood Building Department / via the online public records request portal	The Stanwood Building Department was contacted regarding environmental records for the site via the online public records request portal. The Stanwood Building Department responded with a building assessment report which stated the site structures were in poor conditions and not habitable.

## 5.0 SITE RECONNAISSANCE

### 5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in **Exhibit 2 of Appendix A**. Photo documentation of the site at the time of the visual reconnaissance is provided in **Appendix B**. Credentials of the individuals planning and conducting the site visit are included in **Appendix E**.

#### General Site Information

Site Reconnaissance				
Field Personnel	Mr. Joshua F. Cox			
Reconnaissance Date	March 18, 2021			
Weather Conditions	Overcast 43°F			
Site Contact/Title	Stephanie VonBehren / Site Manager			
Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (ft <sup>2</sup> )
Building 211	Residential	1900	2	2,080
Building 213	Residential /commercial	1900	2	3,780
Site Utilities				
Drinking Water	Municipal			

<b>Building Description</b>				
<b>Building Identification</b>	<b>Building Use</b>	<b>Approx. Construction Date</b>	<b>Number of Stories</b>	<b>Approx. Size (ft<sup>2</sup>)</b>
Wastewater	Municipal			
Electric	Alliant Energy			
Natural Gas	Alliant Energy			

During the site visit, Terracon noted painted surfaces that could potentially be lead based. Terracon also noted several building materials that could be asbestos containing.

## 5.2 Overview of Current Site Occupants

The site is currently owned by the City of Stanwood. The site consists of two parcels of land totaling approximately 0.12 acres and is located at 211 & 213 Broadway Street in Stanwood, Cedar County, Iowa. There are no occupants at the site.

## 5.3 Overview of Current Site Operations

The site is developed with two (2) two-story buildings that are currently unoccupied.

## 5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an “X”) are discussed in more detail following the table.

### Site Characteristics

<b>Category</b>	<b>Item or Feature</b>	<b>Observed or Identified</b>
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	X
	Paint booths	
	Sub-grade mechanic pits	

**Phase I Environmental Site Assessment**

ECIA Brownfields Assessment Services ■ Stanwood , IA

March 30, 2021 ■ Terracon Project No. 07207086



Category	Item or Feature	Observed or Identified
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (e.g., electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels and/or containers ≥ 5 gallons	
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
Electrical Transformers/ PCBs	Transformers and/or capacitors	X
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	X
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
Exterior pipe discharges and/or other effluent discharges		
Other Notable Site Features	Surface water bodies	
	Quarries or pits	
	Wastewater lagoons	

Category	Item or Feature	Observed or Identified
	Wells	

## Site Operations, Processes, and Equipment

### Heating and/or cooling systems

The building is heated by a natural gas furnace and is cooled with an electric air conditioning system.

### **Electrical Transformers/PCBs**

#### Transformers and/or capacitors

During the site reconnaissance, three (3) pole-mounted transformers, owned and serviced by Alliant Energy, were observed along the south side of the site building; however, information with regard to PCB content of the transformer fluids was not observed. Some transformers contain mineral oil which may contain PCBs.

Alliant Energy maintains responsibility for the transformers, and if the transformers were “PCB contaminated,” Alliant Energy is not required to replace the transformer fluids until a release is identified. However, evidence of current or prior releases was not observed in the vicinity of the electrical equipment during the site reconnaissance. The presence of the pole-mounted transformer at the site is not considered a REC to the site at this time.

## Releases or Potential Releases

### Trash, debris and/or other waste materials

Trash and debris were observed in throughout the site buildings during the site reconnaissance. Based on visual observation (only of surface materials), the trash consisted of household trash, such as furniture, appliances and building materials. Leakage of hazardous liquids, spills, or other releases from these materials were not observed during the visual reconnaissance. The debris materials did not appear to be hazardous in nature.

## 6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

### Adjoining Properties

Direction	Description
North	210 Broadway Street (Fidelity Bank & Trust) and vacant land
East	215 Broadway Street (Masonic Lodge)
South	Vacant land followed by railroad tracks
West	209 Broadway Street (City of Stanwood Municipal Building)

RECs were not observed with the adjoining properties.

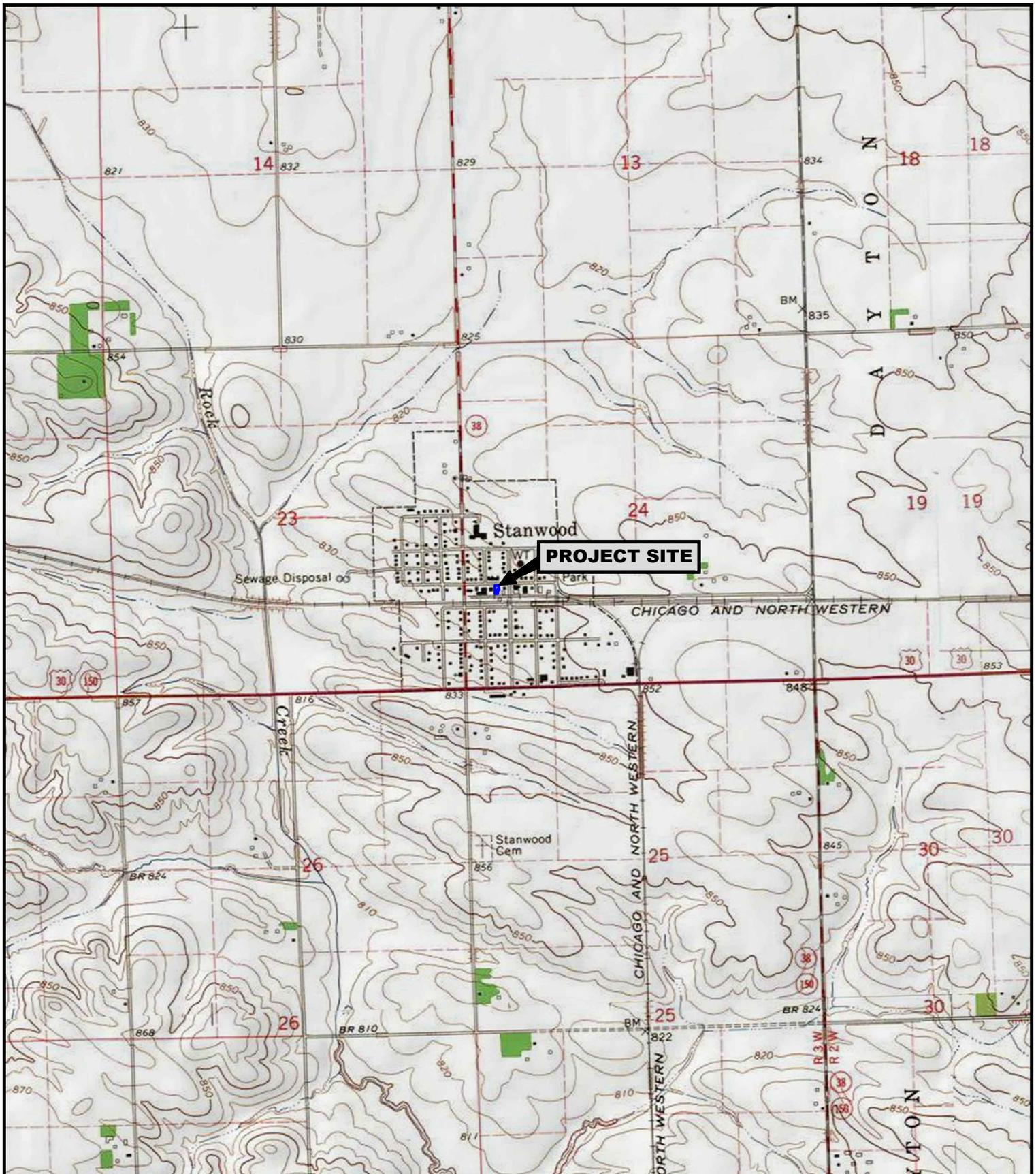
## 7.0 DECLARATION

I, Dennis R. Sensenbrenner, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

---

Dennis R. Sensenbrenner, PG  
Senior Associate

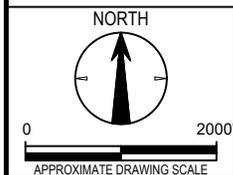
**APPENDIX A**  
**EXHIBIT 1 – TOPOGRAPHIC MAP**  
**EXHIBIT 2 – SITE DIAGRAM**



TOPO IMAGE FROM ARCGIS MAP SERVER  
<http://services.arcgisonline.com/ArcGIS/services>

**LEGEND**

- - - - - BOUNDARY OF ASSESSED AREA



Project No: 07207086	Date: 3/24/2021
Project Mngr: JFC	Drawn By: JAL
File Name: 07207086-01.dwg	
Layout Name: E1	

**Terracon**  
 Consulting Engineers and Scientists

870 40TH AVENUE BETTENDORF, IOWA 52722  
 PH. (563) 355-0702 FAX. (563) 355-4789

TOPOGRAPHIC SITE MAP  
 PHASE I ENVIRONMENTAL SITE ASSESSMENT  
 ECIA BROWNFIELDS  
 211 & 213 EAST BROADWAY STREET  
 STANWOOD, CEDAR COUNTY, IOWA

EXHIBIT  
 1



AERIAL PHOTO FROM GOOGLE EARTH

**LEGEND**

**- - - - -** BOUNDARY OF ASSESSED AREA

NORTH

0 200'

APPROXIMATE DRAWING SCALE

Project No. 07207086	Date: 3/24/2021
Project Mngr: JFC	Drawn By: JAL
File Name: 07207086-01.dwg	
Layout Name: E2	



870 40TH AVENUE BETTENDORF, IOWA 52722  
PH. (563) 355-0702 FAX. (563) 355-4789

SITE DIAGRAM	EXHIBIT
PHASE I ENVIRONMENTAL SITE ASSESSMENT ECIA BROWNFIELDS 211 & 213 EAST BROADWAY STREET STANWOOD, CEDAR COUNTY, IOWA	2

**APPENDIX B**  
**SITE PHOTOGRAPHS**



**Photo #1** View of the site looking south.



**Photo #2** View of the site looking north.



**Photo #3** View of commercial properties adjoining to the west of the site.



**Photo #4** View of the vacant property adjoining to the south.



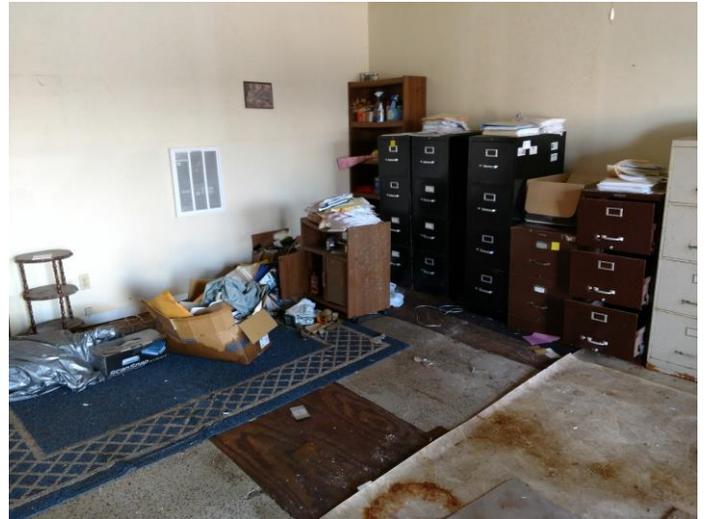
**Photo #5** View of commercial property adjoining to the east of the site.



**Photo #6** View of commercial property adjacent to the north of the site.



**Photo #7** View of pole mounted transformers along the south side of the site.



**Photo #8** View of first floor file cabinets in office area (building 213).



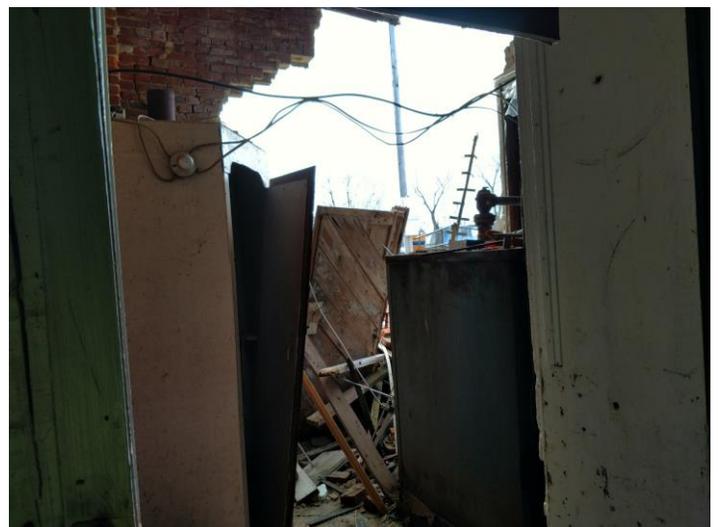
**Photo #9** View of first floor heating system (building 213).



**Photo #10** View of first floor water damaged ceilings (building 213).



**Photo #11** View of first floor work/storage area (building 213).



**Photo #12** View of first floor structural damage (building 213).



**Photo #13** View of second story storage area (building 213).



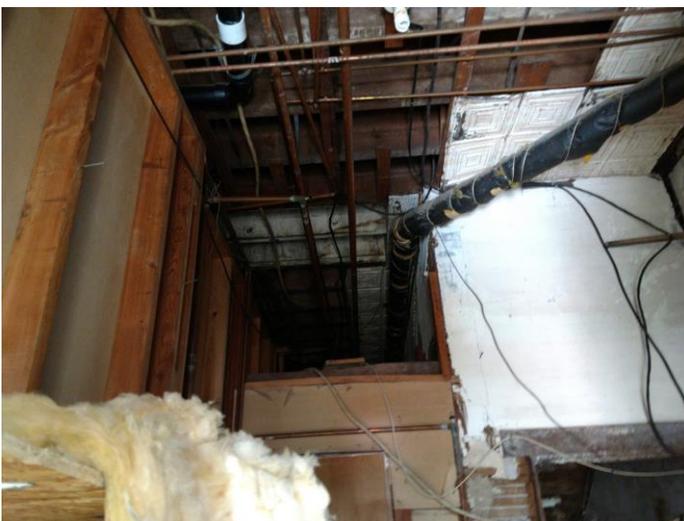
**Photo #14** View of apartment on second story (building 213).



**Photo #15** View of apartment on second story (building 211).



**Photo #16** View of hot water heaters (building 211).



**Photo #17** View of first floor water damaged ceilings (building 211).



**Photo #18** View of apartment first floor (building 211).

**APPENDIX C**  
**HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE**



Stanwood

211 Broadway Street

Stanwood, IA 52337

Inquiry Number: 6406033.4

March 15, 2021

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

03/15/21

**Site Name:**

Stanwood  
211 Broadway Street  
Stanwood, IA 52337  
EDR Inquiry # 6406033.4

**Client Name:**

Terracon  
870 40th Avenue  
Bettendorf, IA 52722  
Contact: Josh Cox



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	07207086	<b>Latitude:</b>	41.892616 41° 53' 33" North
<b>Project:</b>	Standwood	<b>Longitude:</b>	-91.150034 -91° 9' 0" West
		<b>UTM Zone:</b>	Zone 15 North
		<b>UTM X Meters:</b>	653470.04
		<b>UTM Y Meters:</b>	4639508.32
		<b>Elevation:</b>	841.16' above sea level

**Maps Provided:**

2013  
1965  
1901  
1890  
1889

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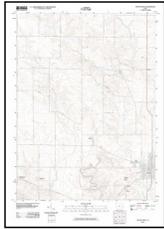
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## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

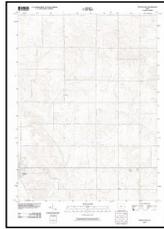
### 2013 Source Sheets



Tipton West  
2013  
7.5-minute, 24000



Clarence  
2013  
7.5-minute, 24000



Tipton East  
2013  
7.5-minute, 24000



Stanwood  
2013  
7.5-minute, 24000

### 1965 Source Sheets



Stanwood  
1965  
7.5-minute, 24000  
Aerial Photo Revised 1963



Tipton West  
1965  
7.5-minute, 24000  
Aerial Photo Revised 1963

### 1901 Source Sheets



Stanwood  
1901  
30-minute, 125000

### 1890 Source Sheets



Tipton  
1890  
15-minute, 62500

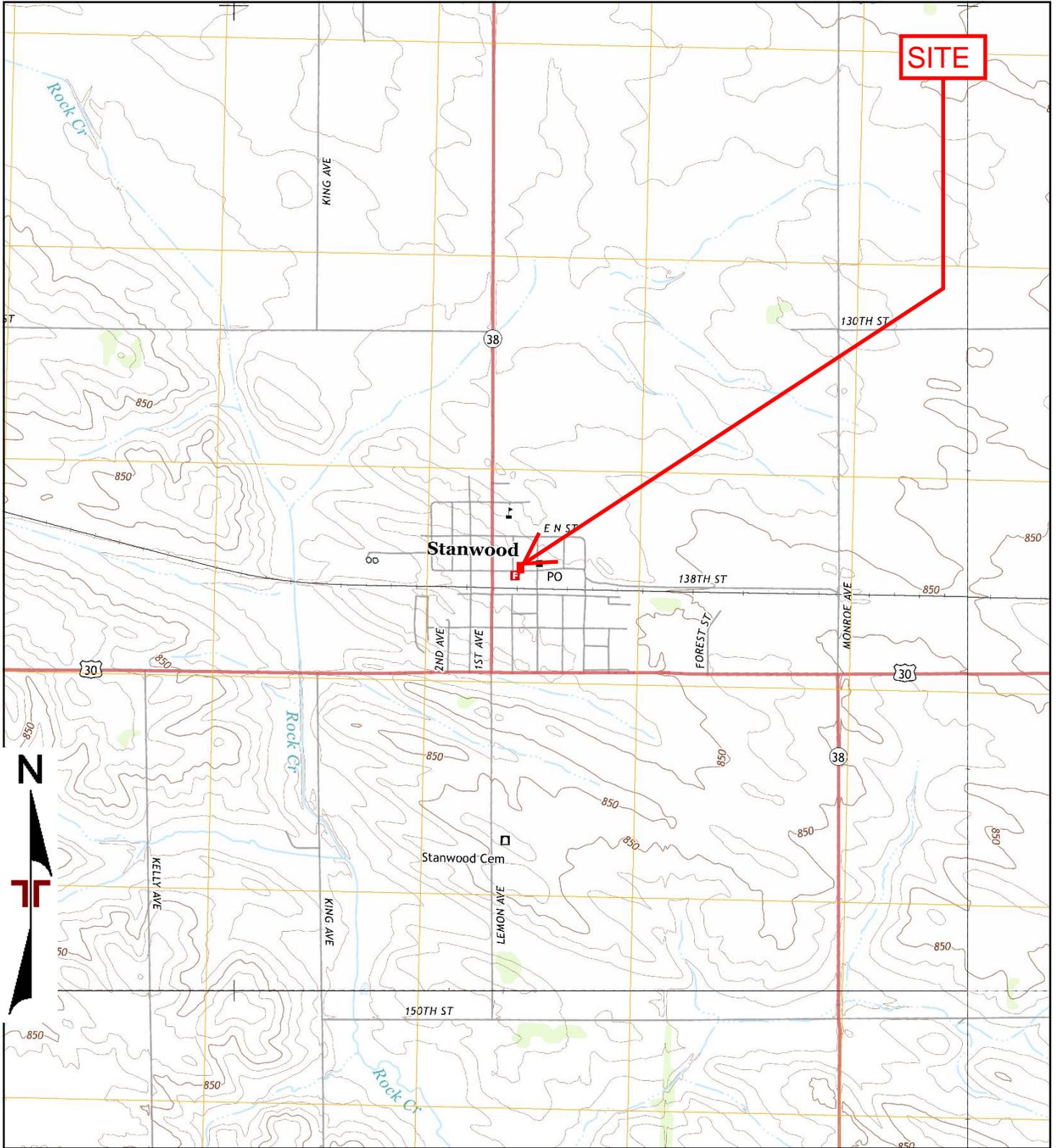
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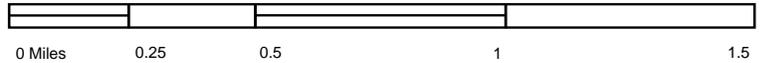
### **1889 Source Sheets**



Tipton  
1889  
15-minute, 62500



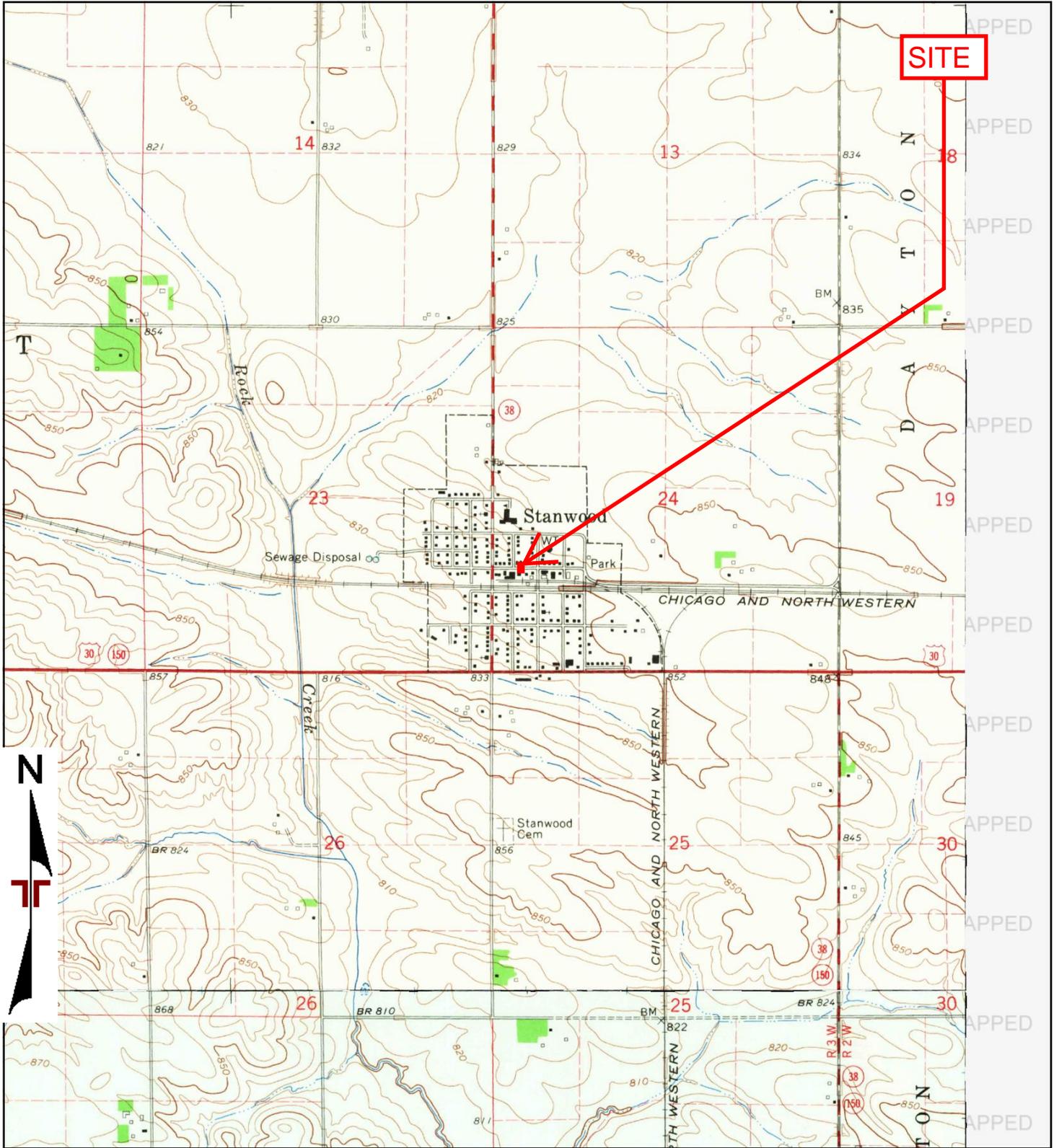
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 NE, Clarence, 2013, 7.5-minute  
 SE, Tipton East, 2013, 7.5-minute  
 S, Tipton West, 2013, 7.5-minute



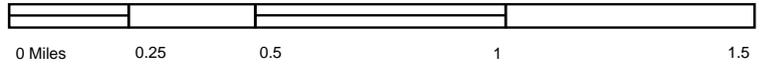
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Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 2013



2013 TOPOGRAPHIC MAP	



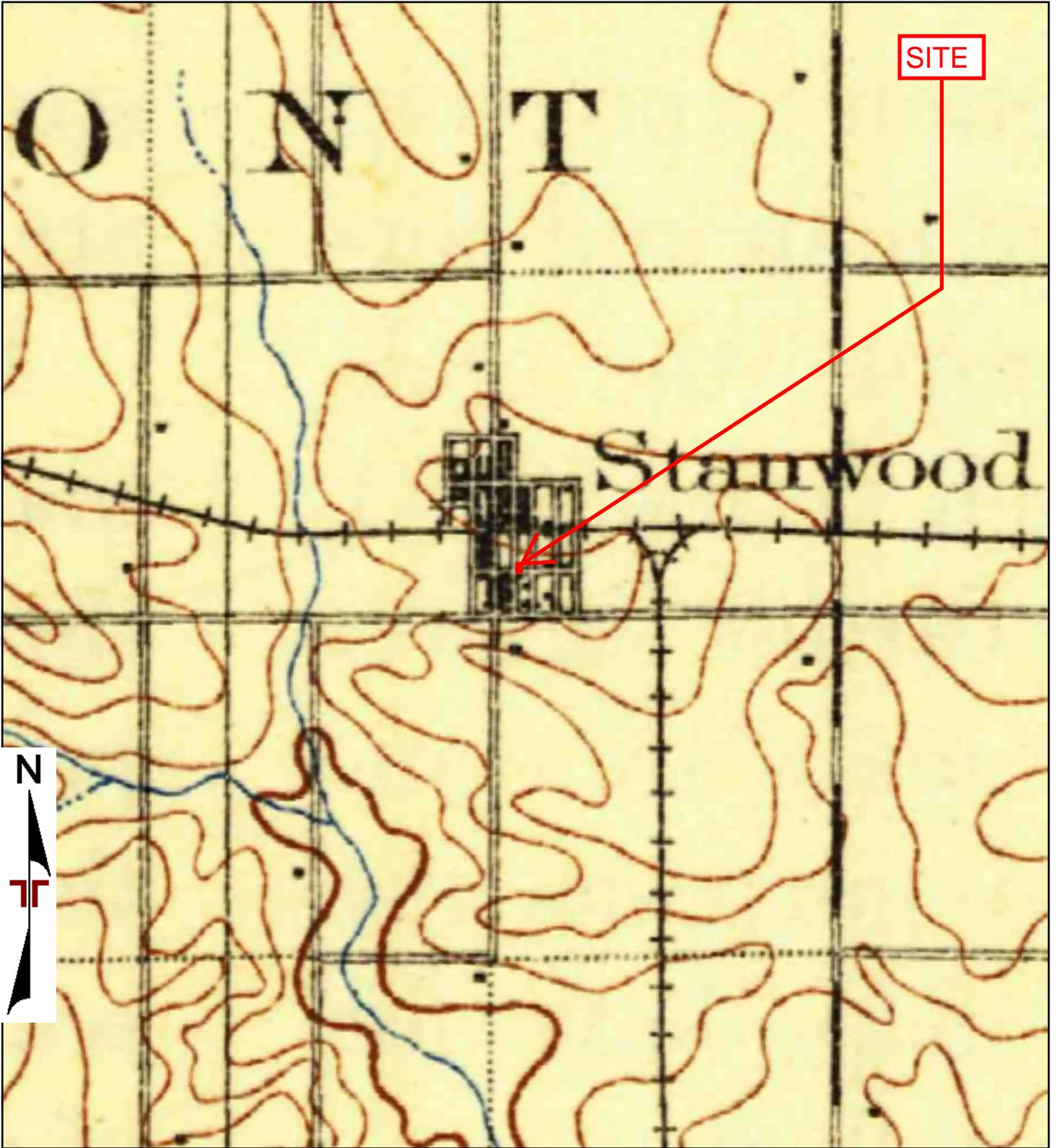
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 S, Tipton West, 1965, 7.5-minute



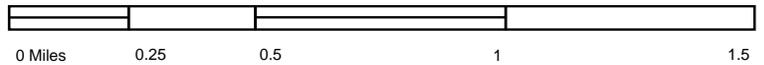
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Approved by:	Date: 1965



1965 TOPOGRAPHIC MAP	



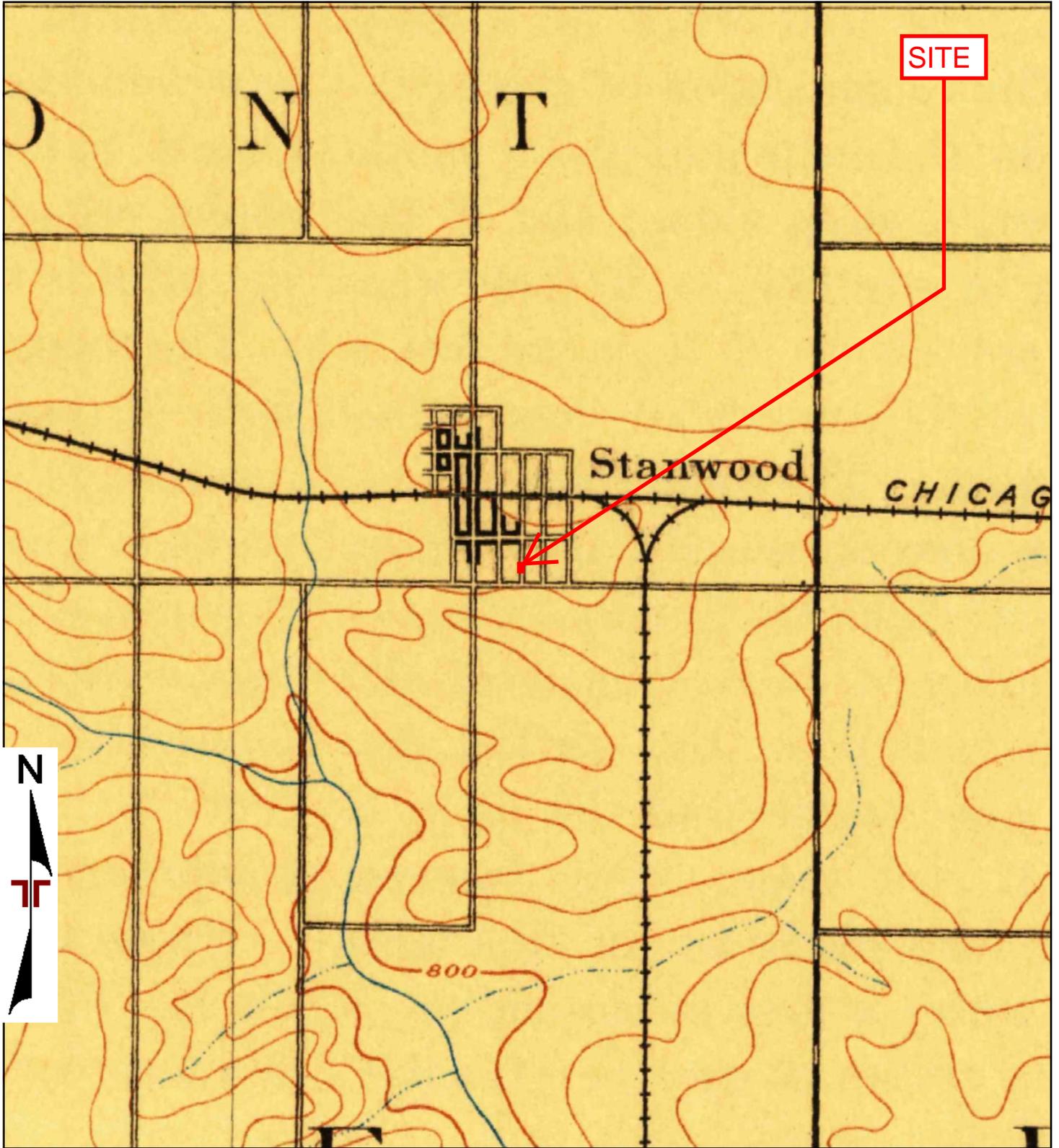
TP, Stanwood, 1901, 30-minute



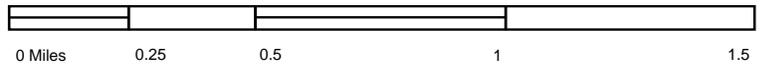
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Checked by:	File Name:
Approved by:	Date: 1901

**Terracon**

1901 TOPOGRAPHIC MAP



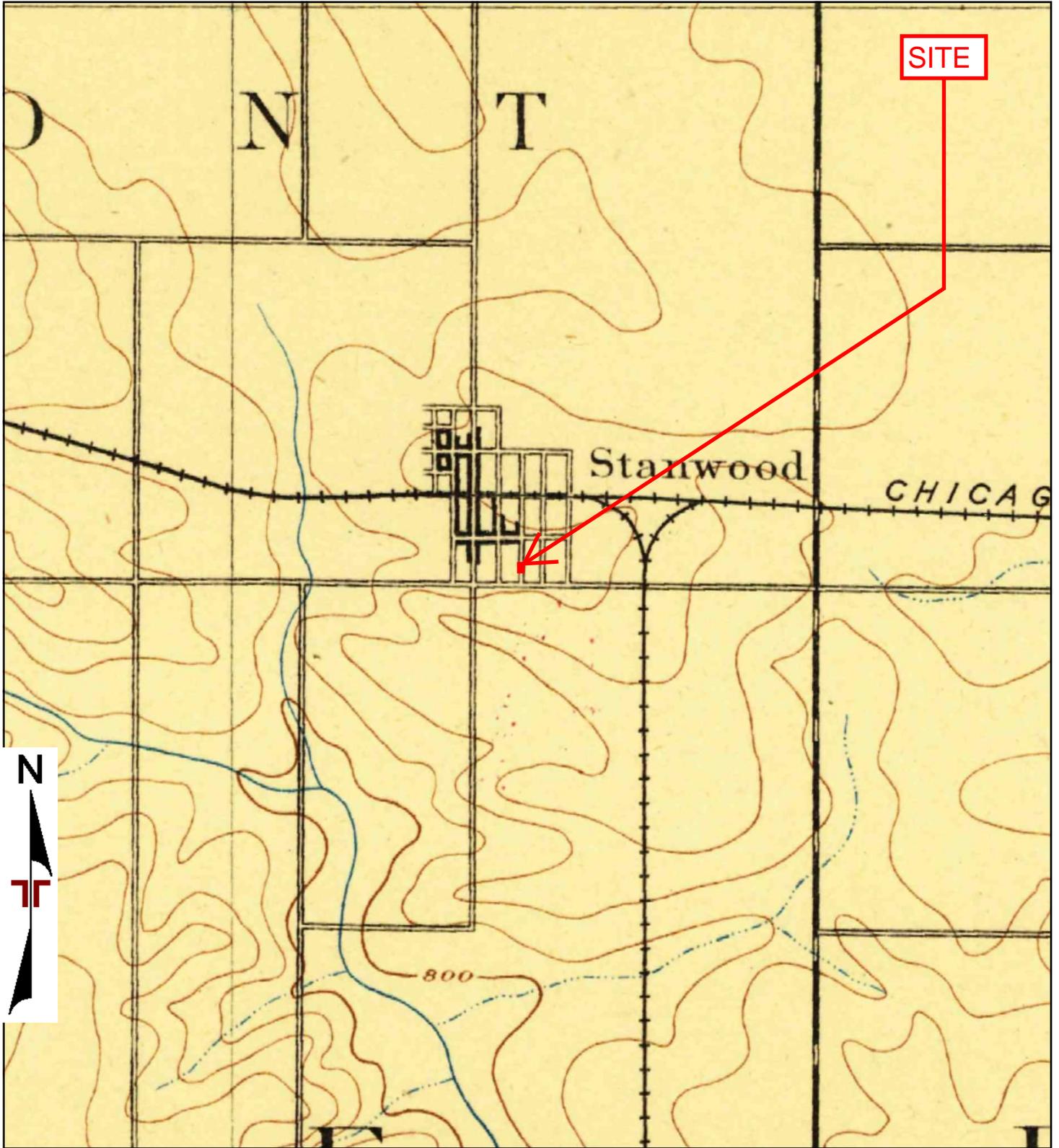
TP, Tipton, 1890, 15-minute



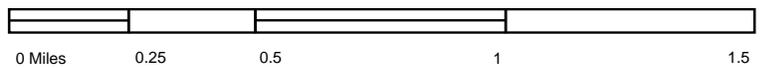
Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1890



1890 TOPOGRAPHIC MAP	



TP, Tipton, 1889, 15-minute



Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date: 1889



1889 TOPOGRAPHIC MAP	



**Stanwood**

211 Broadway Street

Stanwood, IA 52337

Inquiry Number: 6406033.8

March 18, 2021

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

03/18/21

**Site Name:**

Stanwood  
211 Broadway Street  
Stanwood, IA 52337  
EDR Inquiry # 6406033.8

**Client Name:**

Terracon  
870 40th Avenue  
Bettendorf, IA 52722  
Contact: Josh Cox



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## Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: May 17, 1994	USGS/DOQQ
1984	1"=500'	Flight Date: January 01, 1984	USDA
1975	1"=500'	Flight Date: September 26, 1975	USGS
1963	1"=500'	Flight Date: January 01, 1963	USDA
1956	1"=500'	Flight Date: February 06, 1956	USGS
1950	1"=500'	Flight Date: October 18, 1950	USGS
1936	1"=500'	Flight Date: January 01, 1936	USDA

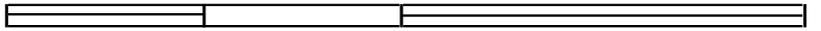
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0 Feet

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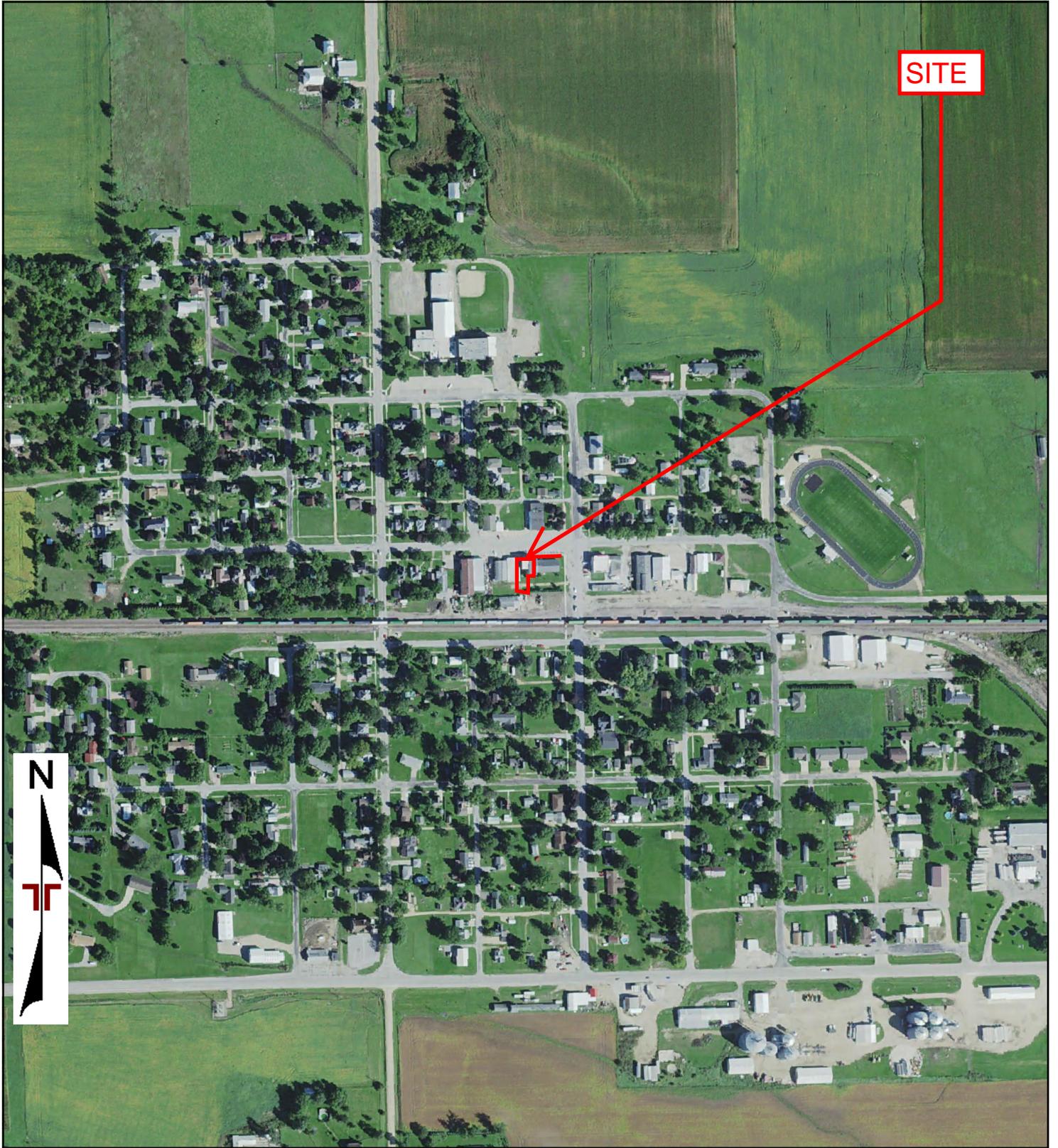
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Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2017



2017 AERIAL PHOTOGRAPH	



0 Feet

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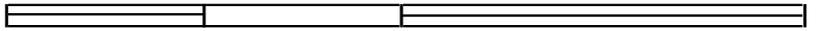
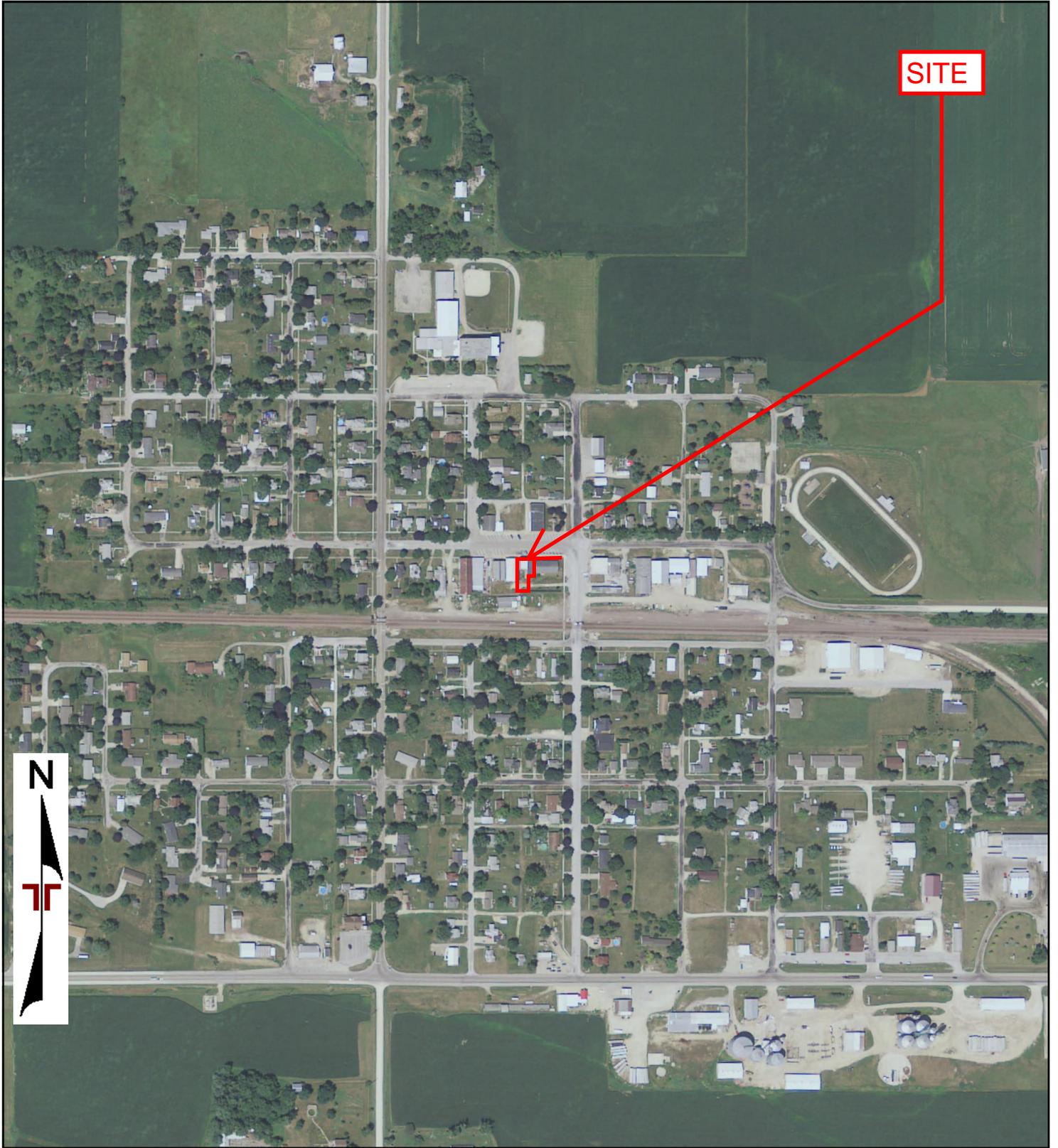
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Checked By:	File Name:
Approved By:	Date: 2014



2014 AERIAL PHOTOGRAPH	



0 Feet

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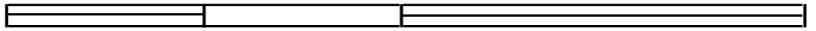
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Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2011



2011 AERIAL PHOTOGRAPH	



0 Feet

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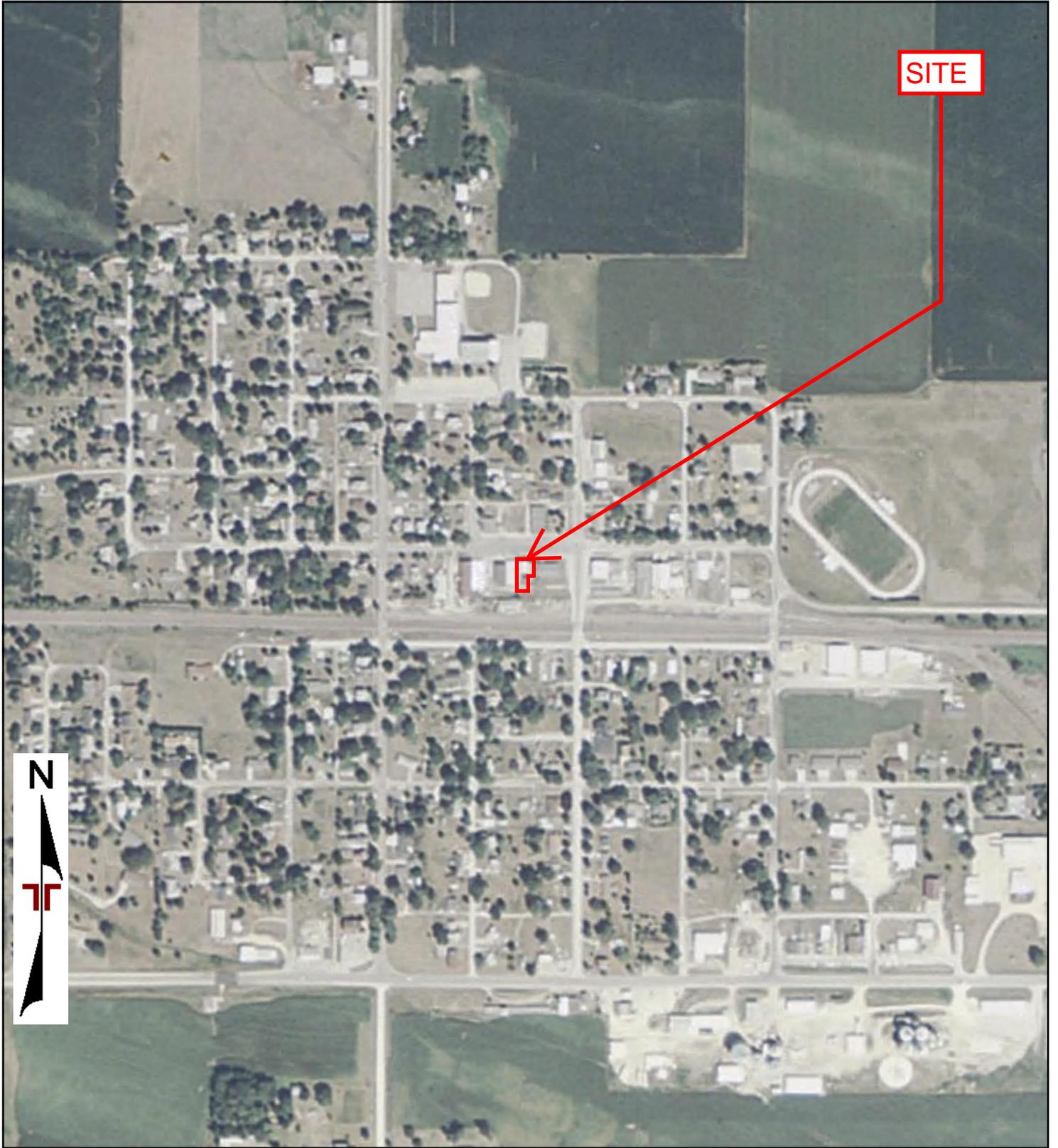
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Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2008



2008 AERIAL PHOTOGRAPH

0 Feet

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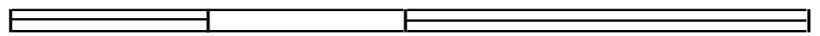
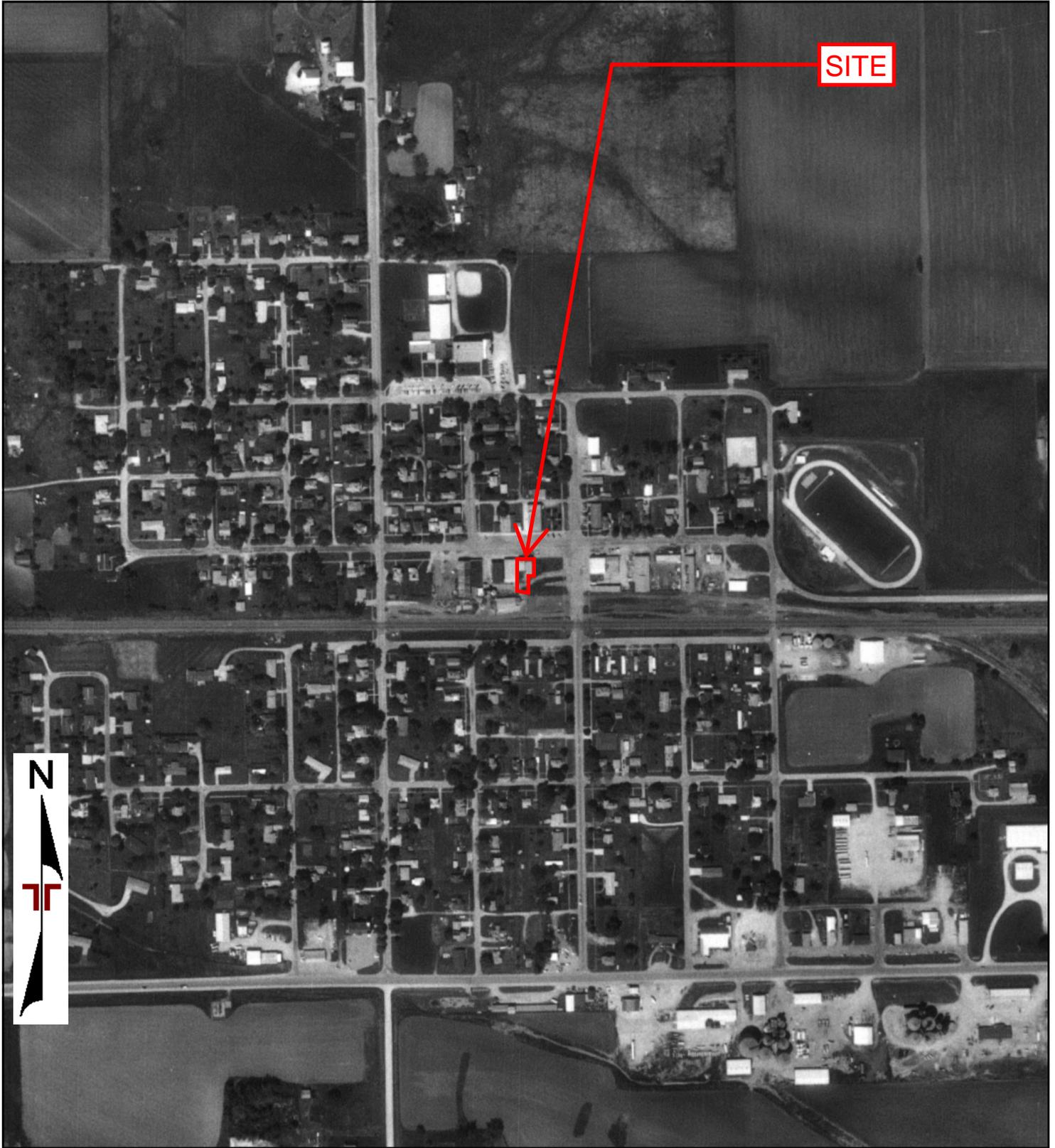
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2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 2005



2005 AERIAL PHOTOGRAPH	



0 Feet

500

1000

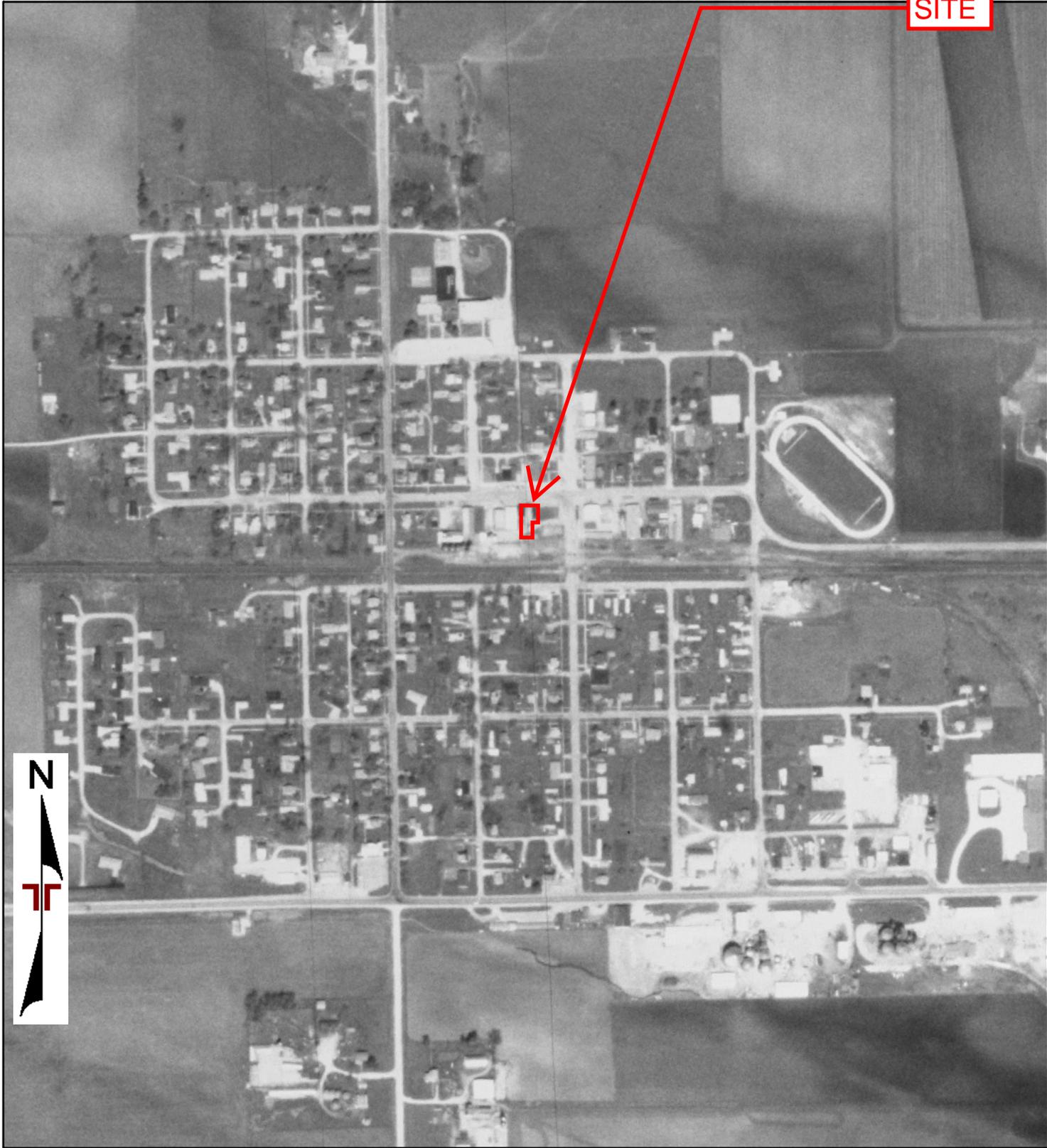
2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1994



1994 AERIAL PHOTOGRAPH	

SITE

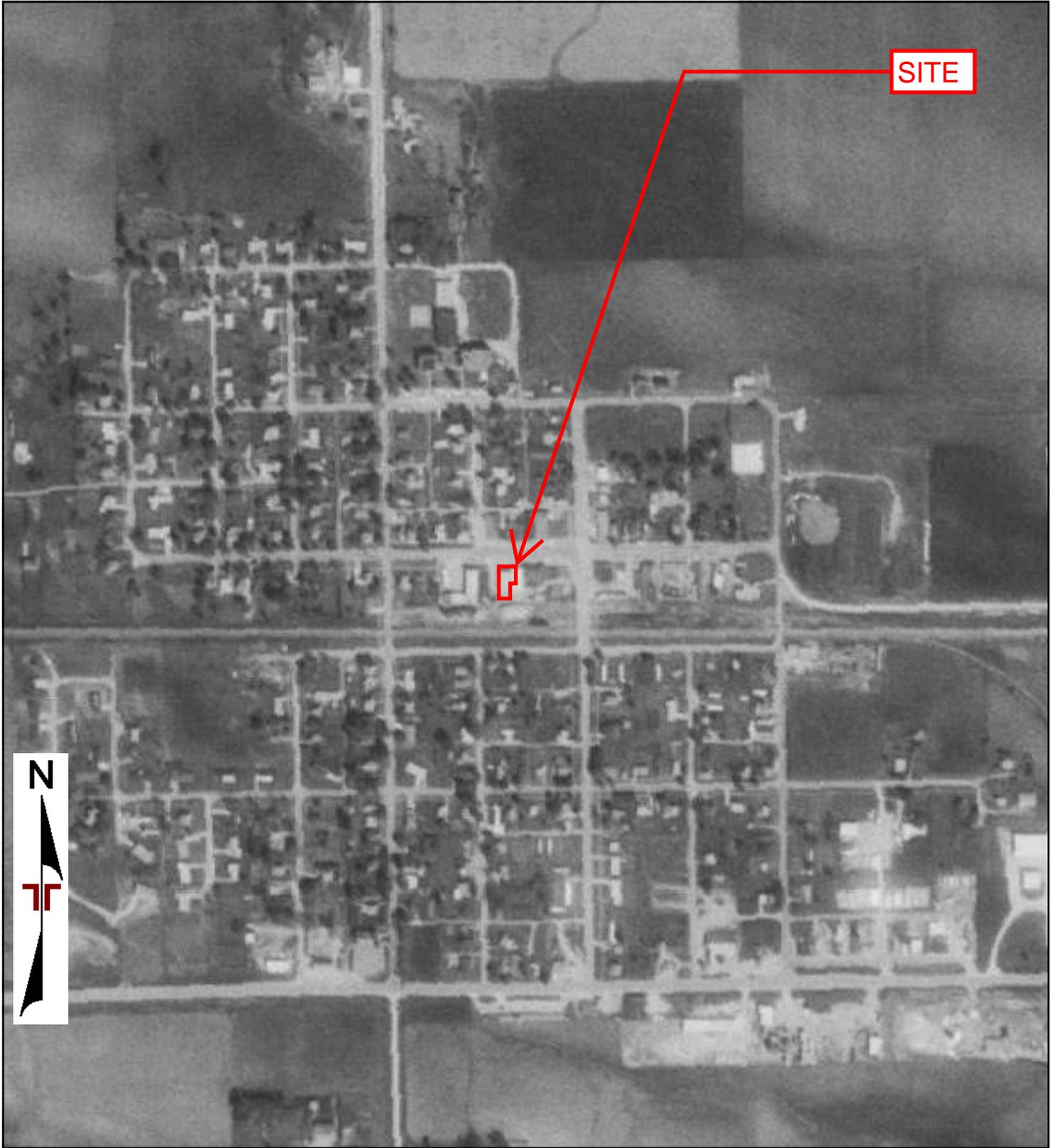


0 Feet                      500                      1000                      2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1984



1984 AERIAL PHOTOGRAPH

0 Feet

500

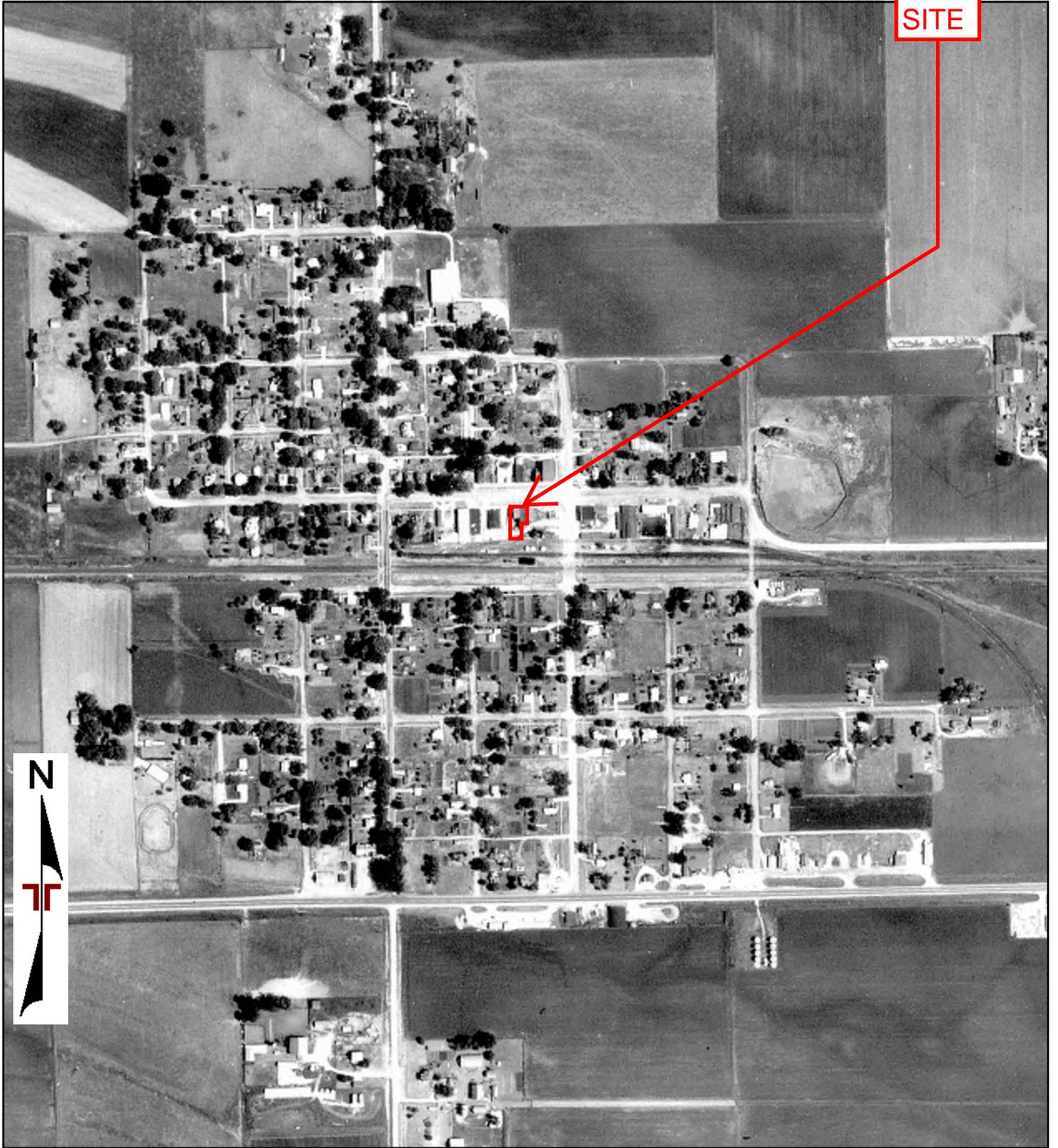
1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1975



1975 AERIAL PHOTOGRAPH	



0 Feet

500

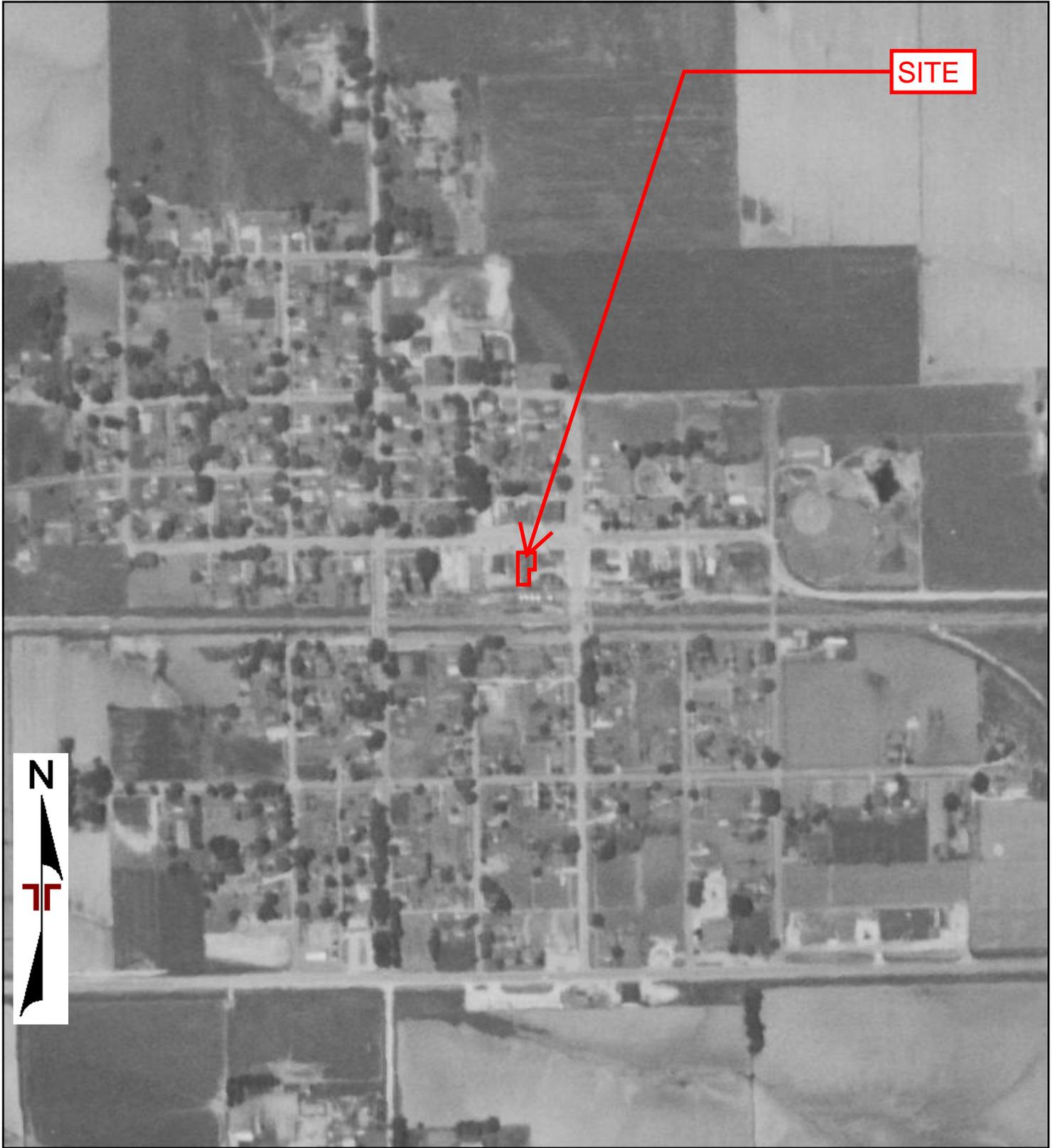
1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1963



1963 AERIAL PHOTOGRAPH	



0 Feet

500

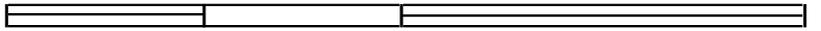
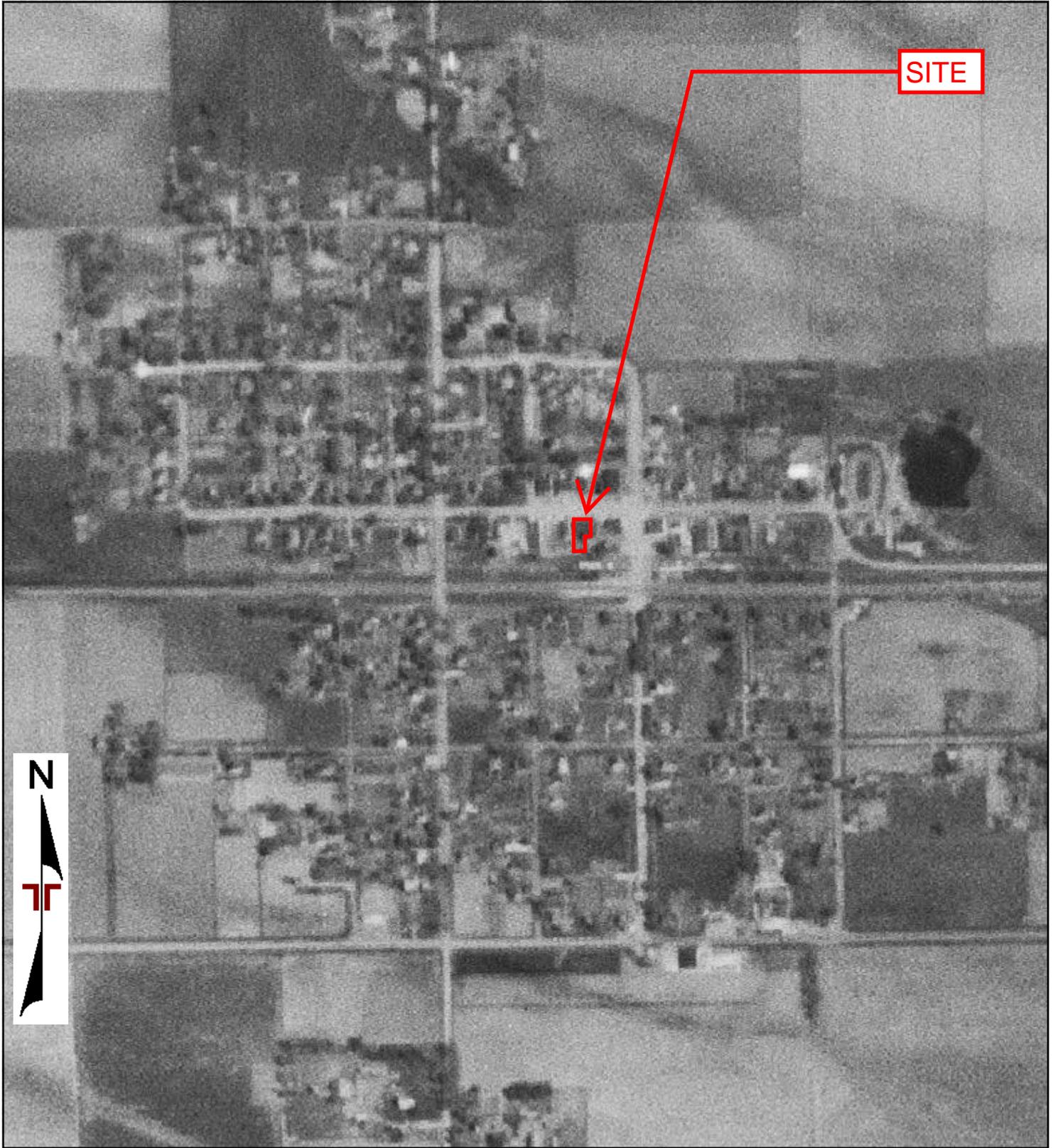
1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1956



1956 AERIAL PHOTOGRAPH

0 Feet

500

1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1950



1950 AERIAL PHOTOGRAPH




0 Feet

500

1000

2000

Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1936



1936 AERIAL PHOTOGRAPH




Stanwood  
211 Broadway Street  
Stanwood, IA 52337

Inquiry Number: 6406033.3

March 16, 2021

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

03/16/21

**Site Name:**

Stanwood  
211 Broadway Street  
Stanwood, IA 52337  
EDR Inquiry # 6406033.3

**Client Name:**

Terracon  
870 40th Avenue  
Bettendorf, IA 52722  
Contact: Josh Cox



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**Certified Sanborn Results:**

**Certification #** E7CE-4722-817F  
**PO #** 07207086  
**Project** Standwood  
**Maps Provided:**  
1915



Sanborn® Library search results

Certification #: E7CE-4722-817F

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

*The Sanborn Library LLC Since 1866™*

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**Sanborn Sheet Key**

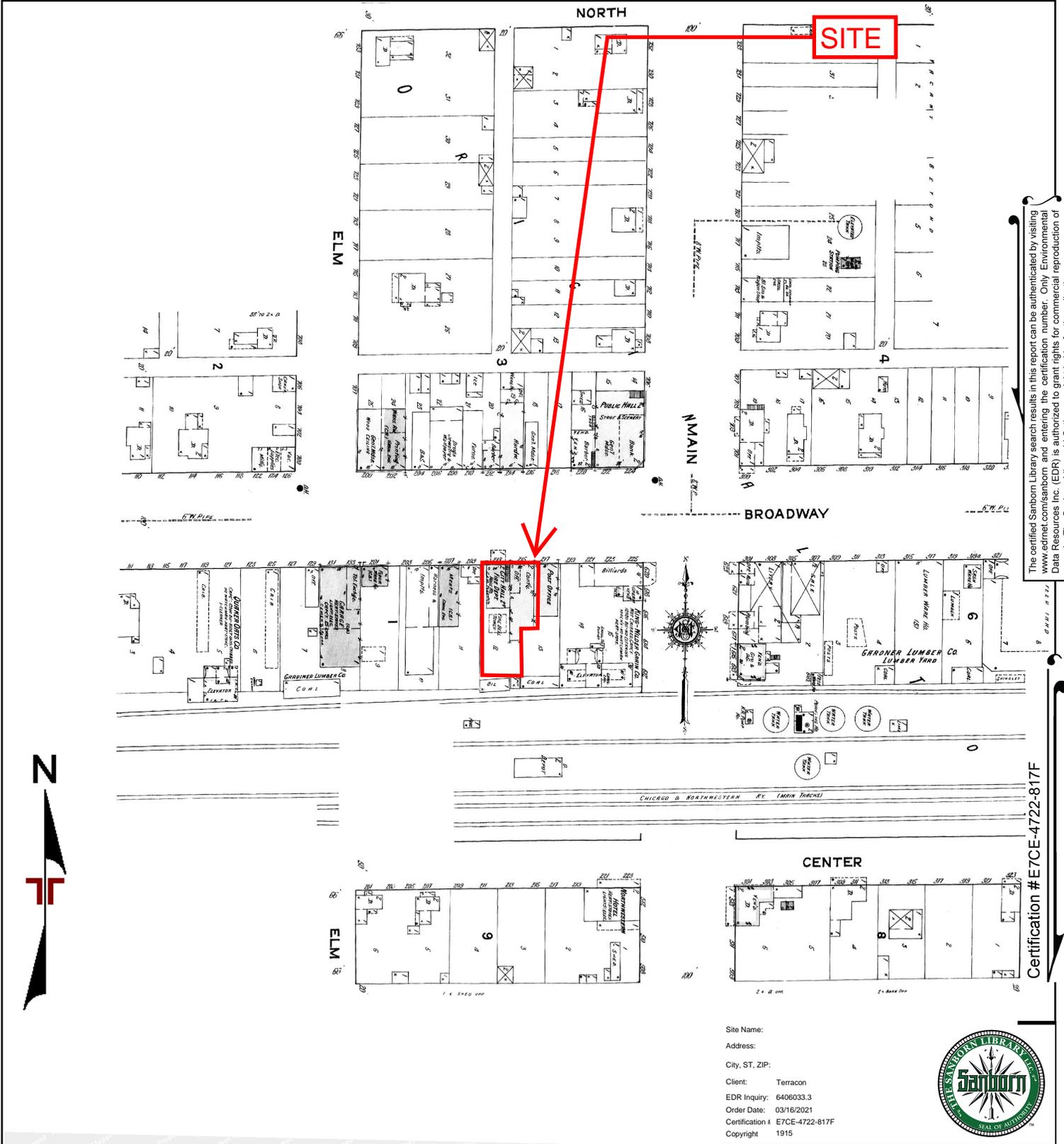
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



**1915 Source Sheets**



Volume 1, Sheet 1  
1915



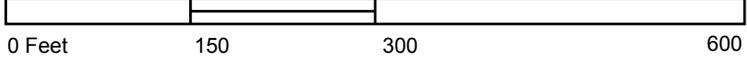
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Certification # E7CE-4722-817F

Site Name:  
 Address:  
 City, ST, ZIP:  
 Client: Terracon  
 EDR Inquiry: 6406033.3  
 Order Date: 03/16/2021  
 Certification #: E7CE-4722-817F  
 Copyright: 1915



Volume 1, Sheet 1



Project Manager:	Project No:
Drawn By:	Scale:
Checked By:	File Name:
Approved By:	Date: 1915



1915 SANBORN MAP	

**Stanwood**

211 Broadway Street  
Stanwood, IA 52337

Inquiry Number: 6406033.5  
March 18, 2021

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

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

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report 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 Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive

# FINDINGS

## TARGET PROPERTY STREET

211 Broadway Street  
Stanwood, IA 52337

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

## E BROADWAY

1995	pg A12	EDR Digital Archive
1992	pg A15	EDR Digital Archive

## E BROADWAY ST

2017	pg A1	EDR Digital Archive
2014	pg A3	EDR Digital Archive
2010	pg A6	EDR Digital Archive
2005	pg A8	EDR Digital Archive
2000	pg A10	EDR Digital Archive
1995	pg A13	EDR Digital Archive
1992	pg A16	EDR Digital Archive

# FINDINGS

## CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
2014	pg. A4	EDR Digital Archive
1995	pg. A14	EDR Digital Archive
1992	pg. A17	EDR Digital Archive

## N MAIN

## N MAIN ST

2017	pg. A2	EDR Digital Archive
2014	pg. A5	EDR Digital Archive
2010	pg. A7	EDR Digital Archive
2005	pg. A9	EDR Digital Archive
2000	pg. A11	EDR Digital Archive

## **City Directory Images**

**E BROADWAY ST 2017**

103	MEYER, HARLAN L
105	BILLICK, BRANDI M
202	STANWOOD CITY LIBRARY
206	UNITED STATES POSTAL SERVICEUSPS
209	CITY MAINTENANCE SHOP CITY OF STANWOOD STANWOOD FIRE DEPARTMENT
213	ADAMS, PAUL S SEEHUSEN INSURANCE AGENCY
216	COMMUNITY STATE BANK
309	OBERBRECKLING CONSTRUCTION LUKE
312	FONNER, ROBERT

**N MAIN ST      2017**

101      REED, PAUL

**E BROADWAY ST 2014**

101	KNOLL, PAUL
102	MEYER, JASON J
103	GIBB, SHIRLEY J
	MEYER, HARLAN L
104	FISHER, MARIE M
105	GLICK, RICK
106	WULF, LYDIA
108	BURCUM, MICHAEL J
202	ADAMS, PAUL S
	STANWOOD CITY LIBRARY
206	OCCUPANT UNKNOWN,
	UNITED STATES POSTAL SERVICEUSPS
209	CITY MAINTENANCE SHOP
	CITY OF STANWOOD
211	NOELLER, STEVEN G
	RASMUSSEN, JEAN
	WAGNER, STEFFANIE
213	NOELLER INSURANCE
216	COMMUNITY STATE BANK
301	SHOOK, HEATHER J
304	KILKER, TIM A
308	HUFFMAN, MEGAN
404	WAGNER, WESLEY A

**N MAIN 2014**

109 HUSMANN, EVERETT

**N MAIN ST      2014**

- 101    COUNTRYMAN, MITCH
- 102    HACHMANN, MARK A  
      LYON, MARILYN  
      WENDT, PHYLLIS
- 103    EGGERS, WILL
- 105    POWERS, JODI
- 109    ROTTMAN, STEPHANIE

**E BROADWAY ST 2010**

101	KNISS, BRETT A
102	STOLTE, DENNIS J
103	GIBB, SHIRLEY J
104	FISHER, MARIE M
105	GLICK, RICK
106	WULF, LYDIA
108	BURCUM, MICHAEL J
202	ADAMS, PAUL S
	STANWOOD PUBLIC LIBRARY
209	STANWOOD CITY MAINTENANCE
211	MERTKA, LOUIS
	MILLER, THOMAS
	NOELLER, STEVEN G
	WAGNER, STEFFANIE
404	WAGNER, WESLEY A

**N MAIN ST      2010**

102    BAILS, RICHARD A  
109    STOLTE, MICHAEL C

**E BROADWAY ST 2005**

101	GLICK, RICK
102	STOLTE, DENNIS J
103	HANSEN, JUANITA B
104	FISHER, MARIE M
105	BILLICK, MIKE R
106	LATHROP, ELMER J
108	BURCUM, MICHAEL J
211	HACHMANN, MARK
	MILLER, THOMAS
	WAGNER, STEFFANIE
213	ADAMS, PAUL S
231	NOELLER INSURANCE AGENCY
301	MORTENSEN, JIM L
304	WHITMAN, TERRA
306	BIRELY, GEORGE A
308	FLOCKHART, DONNIE
312	MERTKA, SHARON L
319	OBERBRECKLING, LESTER W
404	WAGNER, WES

**N MAIN ST      2005**

- 101      SCHNEIDER, KERWIN C
- 102      BACHMAN, BRAD
- BAILS, RICHARD A
- KROEMER, HEROLD
- LYON, MARILYN
- WALTER, ELISE E
- 103      MOSELEY, CHRIS L
- 104      CRABTREE, MONIQUE R
- 105      CARROLL, GWEN L
- 109      STOLTE, MICHAEL C

**E BROADWAY ST 2000**

101	DILTZ, PAMELA
102	MEYER, MARK W STOLTE, DENNIS
103	HANSEN, J B MEYER, HARLAN
104	FISHER, TERRY
105	BILLICK, MIKE
202	STANWOOD PUBLIC LIBRARY
209	STANWOOD AMBULANCE SERVICE STANWOOD CITY OF CITY CLERK STANWOOD CITY OF CITY SHOP WATER & SEWER DEPARTMENT STANWOOD CITY OF POLICE STANWOOD VOL FIRE DEPARTMENT
211	MCLEES, JANELLE MOSER, ALAN
213	ADAMS, PAUL
304	BAILEY, RICHARD
319	RYAN PRECISION MACHINE
404	WAGNER, RICHARD

**N MAIN ST      2000**

- 101    SCHNEIDER, KERWIN
- 102    BAILS, RICHARD
- KROEMER, HEROLD
- MONEYPENNY, JAMES
- TOERBER, ERWIN G
- 103    MOSELEY, C
- 105    CARROLL, G
- 111    STE SANDY

**E BROADWAY 1995**

101	DILTZ, ROGER
102	STOLTE, DENNIS
103	MEYER, HARLAN
108	FERRIS, H V
209	JOHNSON, ESTHER
211	HAGEN, DEANA
	STJOHN, DARLA
301	MORTENSEN, JIM
304	BAILEY, RICHARD
308	STUDER, BELVA
404	WAGNER, RICHARD

**E BROADWAY ST 1995**

110	STANWOOD PUBLIC LIBRARY
209	STANWOOD CITY CLERK
211	HAGEN, DEANA
301	SIGNS & DESIGNS

**N MAIN 1995**

101	SCHNEIDER, KERWIN
102	DAEHLER, WALTER
	KROEMER, HEROLD
	STOCK, W V
103	HARDMAN, CHRISTY
105	HARDMAN, J J
111	HUTSON, THOMAS
201	TOERBER, ERWIN

**E BROADWAY 1992**

101	MEYER, SHERRY
102	STOLTE, DENNIS
103	TENLEY, DIANE
108	FERRIS, H V
301	KLEMME, ROBERT SLOAN, DAREL
404	WAGNER, RICHARD
20912	JOHNSON, ESTHER

**E BROADWAY ST 1992**

304 FREDERICK, MARK

**N MAIN 1992**

- 102 HOLDEN, P E  
STOCK, W V
- 103 CURRENT, DAVID  
STOLTE, JO
- 105 KOCH, ROBERT E
- 110 KRUSE, RANDY
- 1021 KROEMER, HEROLD

## Client/User Required Questionnaire



<b>Person Completing Questionnaire</b>	Name: <u>Stephanie VanBoven</u> Company: <u>City of Stanwood</u>	Phone: <u>503 942 3340</u> Email: <u>stanwood@netins.net</u>
<b>Site Name</b>	<u>Broadway Property</u>	
<b>Site Address</b>	<u>211 &amp; 213 E. Broadway Street, Stanwood, IA 52337</u>	
<b>Point of Contact for Access</b>	Name: <u>Stephanie VanBoven</u> Company: <u>City of Stanwood</u>	Phone: <u>503 942 3340</u> Email: <u>stanwood@netins.net</u>
<b>Access Restrictions or Special Site Requirements?</b>	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If yes, please explain)	
<b>Confidentiality Requirements?</b>	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If yes, please explain)	
<b>Current Site Owner</b>	Name: <u>City of Stanwood</u> Company:	Phone: <u>503 942 3340</u> Email: <u>stanwood@netins.net</u>
<b>Current Site Operator</b>	Name: Company:	Phone: Email:
<b>Reasons for ESA</b> (e.g., financing, acquisition, lease, etc.)		
<b>Anticipated Future Site Use</b>	<u>Open space &amp; utility space - extension of Emergency building</u>	
<b>Relevant Documents?</b>	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.	

### ASTM User Questionnaire

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must respond to the following questions. Failure to provide this information to the environmental professional may result in significant data gaps, which may limit our ability to identify recognized environmental conditions resulting in a determination that "all appropriate inquiry" is not complete. This form represents a type of interview and as such, the user has an obligation to answer all questions in good faith, to the extent of their actual knowledge.

- 1) Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.25)?  
 No  Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)
- 2) Did a search of recorded land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law (40 CFR 312.26)?  
 No  Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)
- 3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?  
 No  Yes (If yes, explain below)
- 4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?  
 No  Yes  Not applicable (If yes or Not applicable, explain below)
- 5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)?  
 No  Yes (If yes, explain below)
- 6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of contamination at the site (40 CFR 312.31)?  
 No  Yes (If yes, explain below)

Comments or explanations:

Please return this form with the signed authorization to proceed.

Responsive ■ Resourceful ■ Reliable

**APPENDIX D**  
**ENVIRONMENTAL DATABASE INFORMATION**

**Stanwood**

211 Broadway Street  
Stanwood, IA 52337

Inquiry Number: 6406033.2s  
March 15, 2021

**The EDR Radius Map™ Report with GeoCheck®**



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	40
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-12
Physical Setting Source Map Findings .....	A-14
Physical Setting Source Records Searched .....	PSGR-1

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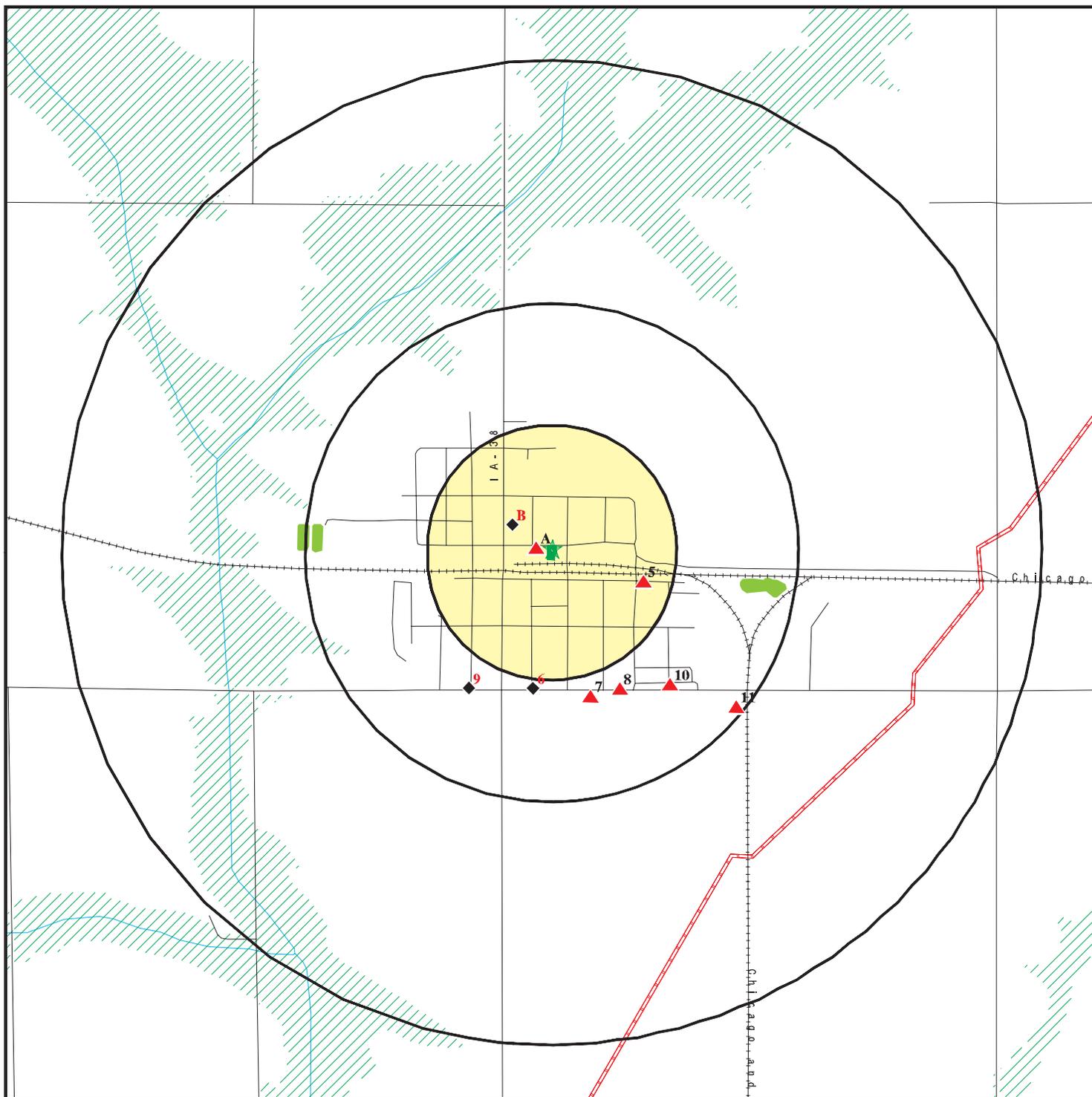
MAPPED SITES SUMMARY

Target Property Address:  
211 BROADWAY STREET  
STANWOOD, IA 52337

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	CITY OF STANWOOD	209 E BROADWAY	UST	Higher	16, 0.003, WSW
<a href="#">A2</a>	JACKS FEED & GRAIN I	201 E BROADWAY	RCRA NonGen / NLR, FINDS, ECHO	Higher	138, 0.026, WNW
<a href="#">B3</a>	HIGH SCHOOL	102 E NORTH	UST	Lower	465, 0.088, WNW
<a href="#">B4</a>	NORTH CEDAR HIGH SCH	102 E NORTH ST	RCRA-VSQG	Lower	465, 0.088, WNW
<a href="#">5</a>	PETRO GAS STATION	202 SOUTH MAPLE	LUST, UST	Higher	1008, 0.191, ESE
<a href="#">6</a>	FORMER MEESE DX SERV	203 E HWY 30	LUST, UST, Financial Assurance	Lower	1421, 0.269, South
<a href="#">7</a>	STANWOOD FOOD MART	1118 HIGHWAY 30	LUST, UST, SPILLS, Financial Assurance	Higher	1548, 0.293, SSE
<a href="#">8</a>	HOME OIL CO	404 EAST HWY 30	LUST, UST	Higher	1586, 0.300, SSE
<a href="#">9</a>	IOWA DEPT OF TRANSP	387 1ST AVE	LUST, UST, FINDS	Lower	1653, 0.313, SSW
<a href="#">10</a>	SMITHWAY MOTOR EXPRE	601 E FRONT ST	LUST, UST	Higher	1860, 0.352, SE
<a href="#">11</a>	FERRELLGAS	1148 HIGHWAY 30	LAST, ALLSITES	Higher	2554, 0.484, SE

# OVERVIEW MAP - 6406033.2S



 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

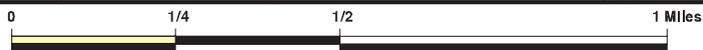
 Pipelines

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

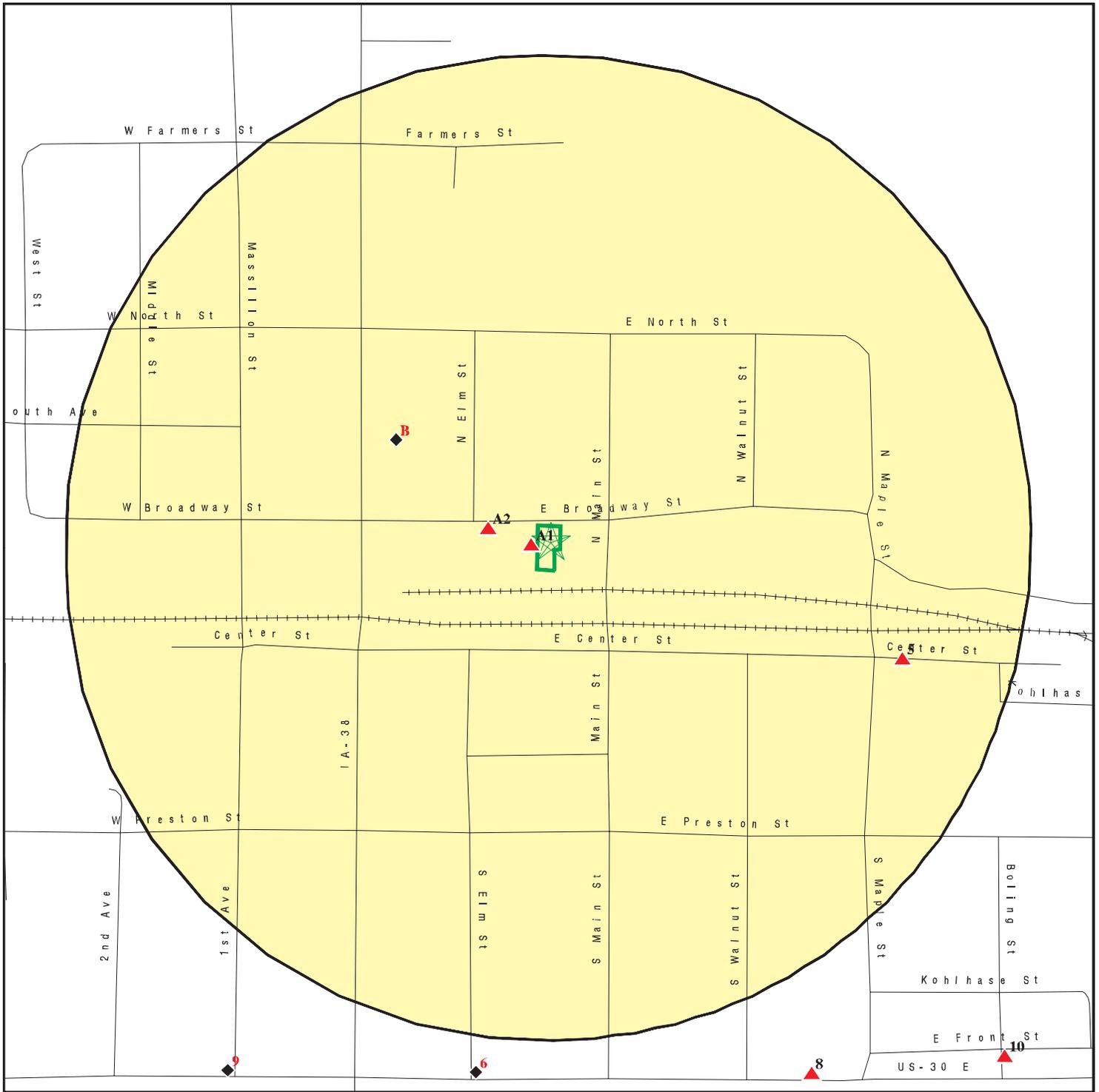


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Stanwood  
 ADDRESS: 211 Broadway Street  
 Stanwood IA 52337  
 LAT/LONG: 41.892616 / 91.150034

CLIENT: Terracon  
 CONTACT: Josh Cox  
 INQUIRY #: 6406033.2s  
 DATE: March 15, 2021 3:23 pm

# DETAIL MAP - 6406033.2S



-  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
  -  Special Flood Hazard Area (1%)
  -  0.2% Annual Chance Flood Hazard
- 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: Stanwood  
 ADDRESS: 211 Broadway Street  
 Stanwood IA 52337  
 LAT/LONG: 41.892616 / 91.150034

CLIENT: Terracon  
 CONTACT: Josh Cox  
 INQUIRY #: 6406033.2s  
 DATE: March 15, 2021 3:25 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		1	0	NR	NR	NR	1
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	1	5	NR	NR	6
LAST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		2	1	NR	NR	NR	3
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	0	1	NR	NR	1
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA HWS	TP		NR	NR	NR	NR	NR	0
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## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	4	2	7	0	0	13

**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

**A1**  
**WSW**  
 < 1/8  
 0.003 mi.  
 16 ft.

**CITY OF STANWOOD**  
**209 E BROADWAY**  
**STANWOOD, IA 52337**

**Site 1 of 2 in cluster A**

**UST** **U003212332**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**842 ft.**

UST:  
 Facility Id: 2348  
 Loc Id: 2348  
 Registration: 198601809  
 Owner Type: Municipal  
 Registration Sign Date: 01/27/1986  
 Created By: migration  
 Created Date: 01/08/2007  
 Changed By: migration  
 Last Changed: 01/08/2007  
 Latitude: 41.89303  
 Longitude: -91.15031  
 Otype ID Decode: Municipal

Tank Info:  
 Tank Num: 4830  
 In Use: False  
 Tank Type: 4  
 Material Construction: Double Wall Steel

**A2**  
**WNW**  
 < 1/8  
 0.026 mi.  
 138 ft.

**JACKS FEED & GRAIN INC-FORMER SITE OF**  
**201 E BROADWAY**  
**STANWOOD, IA 52337**

**Site 2 of 2 in cluster A**

**RCRA NonGen / NLR** **1000267532**  
**FINDS** **IAD022340137**  
**ECHO**

**Relative:**  
**Higher**  
**Actual:**  
**842 ft.**

RCRA NonGen / NLR:  
 Date Form Received by Agency: 1994-10-26 00:00:00.0  
 Handler Name: JACKS FEED & GRAIN INC-FORMER SITE OF  
 Handler Address: 201 E BROADWAY  
 Handler City,State,Zip: STANWOOD, IA 52337  
 EPA ID: IAD022340137  
 EPA Region: 07  
 Land Type: Private  
 Federal Waste Generator Description: Not a generator, verified  
 Mailing Address: E BROADWAY  
 Mailing City,State,Zip: STANWOOD, IA 52337  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site State-Reg Handler: ---  
 Hazardous Secondary Material Indicator: NN  
 Commercial TSD Indicator: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JACKS FEED & GRAIN INC-FORMER SITE OF (Continued)**

**1000267532**

2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	2015-04-14 00:00:00.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

**Hazardous Waste Summary:**

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	NONE
Waste Description:	Not Defined
Waste Code:	P094
Waste Description:	PHORATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(ETHYLTHIO)METHYL] ESTER

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	X
Legal Status:	Private
Owner/Operator Address:	X
Owner/Operator City,State,Zip:	X

**Historic Generators:**

Receive Date:	1994-10-26 00:00:00.0
Handler Name:	JACKS FEED & GRAIN INC-FORMER SITE OF
Federal Waste Generator Description:	Not a generator, verified
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACKS FEED & GRAIN INC-FORMER SITE OF (Continued)**

**1000267532**

Receive Date: 1980-08-18 00:00:00.0  
Handler Name: JACKS FEED & GRAIN INC-FORMER SITE OF  
Federal Waste Generator Description: Not a generator, verified  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No

List of NAICS Codes and Descriptions:

NAICS Code: 42291  
NAICS Description: FARM SUPPLIES WHOLESALERS

Facility Has Received Notices of Violation:

Found Violation: No

Evaluation Action Summary:

Evaluation Date: 1994-10-26 00:00:00.0  
Evaluation Responsible Agency: EPA Contractor/Grantee  
Found Violation: No  
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION  
Evaluation Responsible Person Identifier: R7PRC

FINDS:

Registry ID: 110005741572

Click Here:

Environmental Interest/Information System:

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000267532  
Registry ID: 110005741572  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110005741572>  
Name: JACKS FEED & GRAIN INC-FORMER SITE OF  
Address: 201 E BROADWAY  
City,State,Zip: STANWOOD, IA 52337

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>B3</b> <b>WNW</b> <b>&lt; 1/8</b> <b>0.088 mi.</b> <b>465 ft.</b>	<b>HIGH SCHOOL</b> <b>102 E NORTH</b> <b>STANWOOD, IA 52337</b>  <b>Site 1 of 2 in cluster B</b>	<b>UST</b>	<b>U003934681</b> <b>N/A</b>
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<b>Relative:</b> <b>Lower</b>  <b>Actual:</b> <b>840 ft.</b>	<table border="0" style="width: 100%;"> <tr> <td colspan="2">UST:</td> </tr> <tr> <td style="padding-right: 20px;">Facility Id:</td> <td>1438</td> </tr> <tr> <td>Loc Id:</td> <td>1438</td> </tr> <tr> <td>Registration:</td> <td>198600863</td> </tr> <tr> <td>Owner Type:</td> <td>School</td> </tr> <tr> <td>Registration Sign Date:</td> <td>12/20/1985</td> </tr> <tr> <td>Created By:</td> <td>migration</td> </tr> <tr> <td>Created Date:</td> <td>01/08/2007</td> </tr> <tr> <td>Changed By:</td> <td>migration</td> </tr> <tr> <td>Last Changed:</td> <td>01/08/2007</td> </tr> <tr> <td>Latitude:</td> <td>41.89465</td> </tr> <tr> <td>Longitude:</td> <td>-91.15103</td> </tr> <tr> <td>Otype ID Decode:</td> <td>School</td> </tr> <tr> <td colspan="2">Tank Info:</td> </tr> <tr> <td style="padding-right: 20px;">Tank Num:</td> <td>2114</td> </tr> <tr> <td>In Use:</td> <td>False</td> </tr> <tr> <td>Tank Type:</td> <td>4</td> </tr> <tr> <td>Material Construction:</td> <td>Double Wall Steel</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td style="padding-right: 20px;">Tank Num:</td> <td>2115</td> </tr> <tr> <td>In Use:</td> <td>False</td> </tr> <tr> <td>Tank Type:</td> <td>4</td> </tr> <tr> <td>Material Construction:</td> <td>Double Wall Steel</td> </tr> </table>	UST:		Facility Id:	1438	Loc Id:	1438	Registration:	198600863	Owner Type:	School	Registration Sign Date:	12/20/1985	Created By:	migration	Created Date:	01/08/2007	Changed By:	migration	Last Changed:	01/08/2007	Latitude:	41.89465	Longitude:	-91.15103	Otype ID Decode:	School	Tank Info:		Tank Num:	2114	In Use:	False	Tank Type:	4	Material Construction:	Double Wall Steel			Tank Num:	2115	In Use:	False	Tank Type:	4	Material Construction:	Double Wall Steel
UST:																																															
Facility Id:	1438																																														
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Registration:	198600863																																														
Owner Type:	School																																														
Registration Sign Date:	12/20/1985																																														
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Tank Info:																																															
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Material Construction:	Double Wall Steel																																														

<b>B4</b> <b>WNW</b> <b>&lt; 1/8</b> <b>0.088 mi.</b> <b>465 ft.</b>	<b>NORTH CEDAR HIGH SCHOOL</b> <b>102 E NORTH ST</b> <b>STANWOOD, IA 52337</b>  <b>Site 2 of 2 in cluster B</b>	<b>RCRA-VSQG</b>	<b>1012178382</b> <b>IAR000513085</b>
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<b>Relative:</b> <b>Lower</b>  <b>Actual:</b> <b>840 ft.</b>	<table border="0" style="width: 100%;"> <tr> <td colspan="2">RCRA-VSQG:</td> </tr> <tr> <td style="padding-right: 20px;">Date Form Received by Agency:</td> <td>2009-07-21 00:00:00.0</td> </tr> <tr> <td>Handler Name:</td> <td>NORTH CEDAR HIGH SCHOOL</td> </tr> <tr> <td>Handler Address:</td> <td>102 E NORTH ST</td> </tr> <tr> <td>Handler City,State,Zip:</td> <td>STANWOOD, IA 52337</td> </tr> <tr> <td>EPA ID:</td> <td>IAR000513085</td> </tr> <tr> <td>Contact Name:</td> <td>MARK GLOVER</td> </tr> <tr> <td>Contact Address:</td> <td>E NORTH ST</td> </tr> <tr> <td>Contact City,State,Zip:</td> <td>STANWOOD, IA 52337</td> </tr> <tr> <td>Contact Telephone:</td> <td>563-452-3179</td> </tr> <tr> <td>Contact Email:</td> <td>MGLOVER@NORTH-CEDAR.K12.IA.US</td> </tr> <tr> <td>EPA Region:</td> <td>07</td> </tr> <tr> <td>Land Type:</td> <td>District</td> </tr> <tr> <td>Federal Waste Generator Description:</td> <td>Conditionally Exempt Small Quantity Generator</td> </tr> <tr> <td>Active Site Indicator:</td> <td>Handler Activities</td> </tr> <tr> <td>Mailing Address:</td> <td>E NORTH ST</td> </tr> <tr> <td>Mailing City,State,Zip:</td> <td>STANWOOD, IA 52337</td> </tr> <tr> <td>Owner Name:</td> <td>NORTH CEDAR COMMUNITY SCHOOL DISTRICT</td> </tr> <tr> <td>Owner Type:</td> <td>District</td> </tr> <tr> <td>Operator Name:</td> <td>NORTH CEDAR COMMUNITY SCHOOL DISTRICT</td> </tr> <tr> <td>Operator Type:</td> <td>District</td> </tr> <tr> <td>Short-Term Generator Activity:</td> <td>No</td> </tr> </table>	RCRA-VSQG:		Date Form Received by Agency:	2009-07-21 00:00:00.0	Handler Name:	NORTH CEDAR HIGH SCHOOL	Handler Address:	102 E NORTH ST	Handler City,State,Zip:	STANWOOD, IA 52337	EPA ID:	IAR000513085	Contact Name:	MARK GLOVER	Contact Address:	E NORTH ST	Contact City,State,Zip:	STANWOOD, IA 52337	Contact Telephone:	563-452-3179	Contact Email:	MGLOVER@NORTH-CEDAR.K12.IA.US	EPA Region:	07	Land Type:	District	Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator	Active Site Indicator:	Handler Activities	Mailing Address:	E NORTH ST	Mailing City,State,Zip:	STANWOOD, IA 52337	Owner Name:	NORTH CEDAR COMMUNITY SCHOOL DISTRICT	Owner Type:	District	Operator Name:	NORTH CEDAR COMMUNITY SCHOOL DISTRICT	Operator Type:	District	Short-Term Generator Activity:	No
RCRA-VSQG:																																													
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Operator Type:	District																																												
Short-Term Generator Activity:	No																																												

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTH CEDAR HIGH SCHOOL (Continued)**

**1012178382**

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	NN
Commercial TSD Indicator:	No
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	2015-04-14 00:00:00.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH CEDAR HIGH SCHOOL (Continued)**

**1012178382**

Waste Code: D009  
Waste Description: MERCURY

Waste Code: D011  
Waste Description: SILVER

Waste Code: D022  
Waste Description: CHLOROFORM

Waste Code: P108  
Waste Description: STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: NORTH CEDAR COMMUNITY SCHOOL DISTRICT  
Legal Status: District  
Date Became Current: 2009-06-22 00:00:00.  
Owner/Operator Address: 102 E NORTH ST  
Owner/Operator City,State,Zip: STANWOOD, IA 52337

Owner/Operator Indicator: Operator  
Owner/Operator Name: NORTH CEDAR COMMUNITY SCHOOL DISTRICT  
Legal Status: District  
Date Became Current: 2009-06-22 00:00:00.  
Owner/Operator Address: 102 E NORTH ST  
Owner/Operator City,State,Zip: STANWOOD, IA 52337

Owner/Operator Indicator: Operator  
Owner/Operator Name: NORTH CEDAR COMMUNITY SCHOOL DISTRICT  
Legal Status: District  
Date Became Current: 2009-06-22 00:00:00.  
Owner/Operator Address: 102 E NORTH ST  
Owner/Operator City,State,Zip: STANWOOD, IA 52337

Owner/Operator Indicator: Owner  
Owner/Operator Name: NORTH CEDAR SCHOOL DISTRICT  
Legal Status: District  
Date Became Current: 2007-09-27 00:00:00.  
Owner/Operator Address: 102 E NORTH ST  
Owner/Operator City,State,Zip: STANWOOD, IA 52337-9775

Owner/Operator Indicator: Owner  
Owner/Operator Name: NORTH CEDAR COMMUNITY SCHOOL DISTRICT  
Legal Status: District  
Date Became Current: 2009-06-22 00:00:00.  
Owner/Operator Address: 102 E NORTH ST  
Owner/Operator City,State,Zip: STANWOOD, IA 52337

Owner/Operator Indicator: Operator  
Owner/Operator Name: NORTH CEDAR COMMUNITY SCHOOL DISTRICT  
Legal Status: District  
Date Became Current: 2009-06-22 00:00:00.  
Owner/Operator Address: 102 E NORTH ST  
Owner/Operator City,State,Zip: STANWOOD, IA 52337

Owner/Operator Indicator: Owner  
Owner/Operator Name: NORTH CEDAR COMMUNITY SCHOOL DISTRICT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH CEDAR HIGH SCHOOL (Continued)**

**1012178382**

Legal Status:	District
Date Became Current:	2009-06-22 00:00:00.
Owner/Operator Address:	102 E NORTH ST
Owner/Operator City,State,Zip:	STANWOOD, IA 52337
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NORTH CEDAR SCHOOL DISTRICT
Legal Status:	District
Date Became Current:	2007-09-27 00:00:00.
Owner/Operator Address:	102 E NORTH ST
Owner/Operator City,State,Zip:	STANWOOD, IA 52337-9775
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NORTH CEDAR COMMUNITY SCHOOL DISTRICT
Legal Status:	District
Date Became Current:	2009-06-22 00:00:00.
Owner/Operator Address:	102 E NORTH ST
Owner/Operator City,State,Zip:	STANWOOD, IA 52337
Owner/Operator Indicator:	Owner
Owner/Operator Name:	NORTH CEDAR COMMUNITY SCHOOL DISTRICT
Legal Status:	District
Date Became Current:	2009-06-22 00:00:00.
Owner/Operator Address:	102 E NORTH ST
Owner/Operator City,State,Zip:	STANWOOD, IA 52337

Historic Generators:

Receive Date:	2007-09-27 00:00:00.0
Handler Name:	NORTH CEDAR HIGH SCHOOL
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	2009-07-21 00:00:00.0
Handler Name:	NORTH CEDAR HIGH SCHOOL
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

Receive Date:	2009-06-30 00:00:00.0
Handler Name:	NORTH CEDAR HIGH SCHOOL
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH CEDAR HIGH SCHOOL (Continued)**

**1012178382**

Receive Date: 2009-06-22 00:00:00.0  
Handler Name: NORTH CEDAR HIGH SCHOOL  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No

Receive Date: 2009-09-04 00:00:00.0  
Handler Name: NORTH CEDAR HIGH SCHOOL  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No

List of NAICS Codes and Descriptions:

NAICS Code: 61111  
NAICS Description: ELEMENTARY AND SECONDARY SCHOOLS

Facility Has Received Notices of Violation:

Found Violation: No

Found Violation: No

Evaluation Action Summary:

Evaluation Date: 2009-07-21 00:00:00.0  
Evaluation Responsible Agency: EPA Contractor/Grantee  
Found Violation: No  
Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT  
Evaluation Responsible Person Identifier: R7JLL

Evaluation Date: 2007-09-04 00:00:00.0  
Evaluation Responsible Agency: EPA Contractor/Grantee  
Found Violation: No  
Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT  
Evaluation Responsible Person Identifier: R7TTE

5  
ESE  
1/8-1/4  
0.191 mi.  
1008 ft.

**PETRO GAS STATION  
202 SOUTH MAPLE  
STANWOOD, IA 52337**

**LUST U003169830  
UST N/A**

**Relative:  
Higher  
Actual:  
850 ft.**

LUST:  
Name: PETRO GAS STATION  
Address: 202 SOUTH MAPLE  
City: STANWOOD  
Facility ID: 2227  
Discover Date: 09/25/1990  
Record Date: 11/01/1990

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PETRO GAS STATION (Continued)**

**U003169830**

Leak Number: 8LTE52  
Loc ID: 64549  
Ust ID: 5104  
Latitude: 41.89185  
Longitude: -91.14642  
Start Date: 11/08/1990  
Lead ID: 5  
Coordinator ID: 11  
Staff ID: 11  
Discover Method ID: 5  
Leak Status: Unknown  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

Lust Status:

ID: 2227  
Site Leak Number: 8LTE52  
Discovered During: Other  
Tanks Removed: 0  
Leak Cause: UNK  
Gas: Yes  
Gallons Released: 000000000000  
Leak Status: Unknown  
Loc Soil: Yes  
Officials Onsite None: Yes  
Delete: False

Lust Cause:

Release Cause: Unknown

Lust HICA:

Leak Number: 8LTE52  
Registration Number: 198604731  
Date CorrectiveActionDesign Report(CADR) Rec:07/12/2000  
Date CADR Due: 06/05/2000  
Date CADR Approved: 09/14/2001  
Staff CADR Reviewed By: VKS

Lust Misc:

Misc Due Date:	11/21/2001	Misc Rec Date:	09/28/2001
Misc Other:	Not reported	Misc Title:	CADR implementation report
Misc Due Date:	05/30/2002	Misc Rec Date:	03/10/2003
Misc Other:	NAR OK 06/02/2003	Misc Title:	Revsd CA Implmnt rpt

Lust Remediation:

Heat Treatment: False  
Land Application: False  
On Site: False  
Achieved Over-Excavation: False  
Soil Venting Passive: False  
Soil Venting Active: False  
BioRemediation Passive: False  
BioRemediation Active: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PETRO GAS STATION (Continued)**

**U003169830**

In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Lust Tier 2 Report:	
T2 Received:	05/29/1998
T2 Accepted:	07/06/1998
Lust Administration:	
ID:	2227
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	11/08/1990
Owner Broke:	Yes
CR Lien Named:	False
Delete:	False
Lust Track:	
ID:	2227
Site Assesment Start Date:	02/01/1991
Cleanup Start Date:	1993-11-17
Cleanup Complete Date:	2003-06-02
Cleanup Report Due Date:	1993-08-28
Cleanup Report Received Date:	1993-08-24
Cleanup Report Approved Date:	1993-11-17
Date Classified:	2003-06-02
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

PETRO GAS STATION (Continued)

U003169830

Tier 2 Consultant Recommends:	High Risk
T2 Actual GW Ingestion:	NFA
T2 Poten GW Ingestion from Protected GW:	NFA
T2 Poten GW Ingestion from Protected GW:	NFA
T2 GW Vapor to Enclosed Space:	NFA
T2 GW to Plastic Water Line:	NFA
T2 SW General Use:	NFA
T2 SW Designated Use:	NFA
T2 Soil Leaching to GW:	NFA
T2 Soil Vapor to Enclosed Space:	NFA
T2 Soil to Plastic Line:	NFA
Institutional Control Obtained:	False
<b>No Action Required:</b>	<b>False</b>
Delete:	False
Track Memo:	01/31/91: CONFIRMATION LETTER SENT. REC'D 2/1/91. RPT DUE 4/1/91.04/02/-91: REC'D LETTER SAYING WANT TO REMOVE TANKS VS CONFIRM SMPLNG.04/05/91: MODIFIED OPTIONS (3) LETTER SENT. REC'D 4/9/91. RPT DUE 6/9/91.04/29/91: REC'D LTR SAYING WILL OE. UNSURE AS TO WHEN RPT MAY BE SUMBIT.05/20/91: LTR NAMING CNSLT & CLOSURE NOTIF FORM REC'D.11/21/91: REV OF FO6 RPT. SOIL CONT REMAINING AT REMOVAL. HOLD LTR SENT. 05/27/92: SCR LTR SENT.05/29/92: CONS-TWIN CITY TESTING.08/16/93: OVERDUE SCR LTR SNT. REC'D 8/18. RSPNS DUE 8/28/93.11/17/93: REFV OF SCR, ACCEPT HIGH RISK.06/19/95: LTR FROM RP - WAIT FOR NEW RULE ADOPTION. CADR DUE = 3/1/96.07/25/96: REC'D INT. SMR.01/28/97: REC'D INT. SMR.05/29/98: REC'D UNSOLIC T2 (HI RISK).07/06/98: T2 REV LTR SNT. REC'D 7/9. HI OK. CADR = 11/9/98.12/23/98: RECD SMR.02/11/99: CADR budget approved by GAB. AESI is the consultant.11/10/99: Spoke with GWP who said CADR will be submitted soon. PVC Replacement has been done. JJ05/24/00: First OD letter sent with due date for CADR of 6/5/00--- received 5/26/00.05/31/00: Telcon w/Searcy. Fund difficulties w/AESI. AESI has agreed to submit the CADR/SMR in 2 wks. The submittal will reportedly reclassify the site to NFA. JH07/12/00: REC'D CADR.09/14/01: CADR accepted without review. Recd 9/17. Action to be replacement of plastic water line Implement rpt = 11/21/01.09/24/01: Phone call from RP. PWL was replaced. Details were in the CADR. Will send ltr tho.09/28/01: Recd ltr saying CA was implemented. See CADR.02/05/02: Implmt report rev ltr snt. Rej. Rec'd 2/12/02. Revsn = 4/12/02.04/03/02: Rec'd ltr from RP saying no PWL to N Kolhasse Street & alley. Contracting for GW vapor work. Due date = 5/30/02.03/10/03: REC'D CA IMPLMNT RPT SUPPLEMENT (GW VAPOR SMPLNG & PWL EXPLANATION.06/02/03: CA Implemnt Supplmnt rev ltr snt. Rec'd 6/6. OK NAR.10/31/03: REC'D ABANDONED WATER WELL PLUGGING RECORDS. Legal descript NOT submitted.

UST:

Facility Id:	5104
Loc Id:	5104
Registration:	198604731
Owner Type:	Private/Corporate
Registration Sign Date:	04/17/1986

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PETRO GAS STATION (Continued)**

**U003169830**

Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 41.89185  
Longitude: -91.14642  
Otype ID Decode: Private/Corporate

**Tank Info:**

Tank Num: 13379  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

Tank Num: 13380  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

Tank Num: 13381  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

**6**  
**South**  
**1/4-1/2**  
**0.269 mi.**  
**1421 ft.**

**FORMER MEESE DX SERVICE**  
**203 E HWY 30**  
**STANWOOD, IA 52337**

**LUST** **U003169200**  
**UST** **N/A**  
**Financial Assurance**

**Relative:**  
**Lower**  
**Actual:**  
**840 ft.**

**LUST:**  
Name: FORMER MEESE DX SERVICE  
Address: 203 E HWY 30  
City: STANWOOD  
Facility ID: 1468  
Discover Date: 03/09/1990  
Discover Time: 11:45AM  
Record Date: 03/09/1990  
Leak Number: 7LTK32  
Loc ID: 63752  
Ust ID: 3334  
Latitude: 41.88869  
Longitude: -91.14967  
Start Date: 03/14/1990  
Date Occurred Time: UNK  
Lead ID: 5  
Coordinator ID: 11  
Staff ID: 27  
Discover Method ID: 3  
Leak Status: Stopped  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

**Lust Status:**  
ID: 1468  
Site Leak Number: 7LTK32

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MEESE DX SERVICE (Continued)**

**U003169200**

Discovered During: Removal  
Tanks Removed: 2  
Gas: Yes  
Gallons Released: 000000000000  
Leak Status: Stopped  
Loc Soil: Yes  
Officials Onsite None: Yes  
Delete: False

Lust HICA:  
Leak Number: 7LTK32  
Registration Number: 198602825

Lust GW:  
Groundwater Professional Applicant#: 1468  
GWP Applicant Last Name: ALIZADEH  
GWP Applicant First Name: ED  
GWP Firm: GEOTECHNOLOGY INC  
GWP Address: 2258 GRISSOM DRIVE  
GWP City/State/Zip: ST LOUIS, MO 63146  
GWP Phone: 3149977440  
Is Gwp Certified?: False  
Is Gwp Cert. For CADR?: False  
GWP Business Phone Num: 3145371136  
GWP Delete: False  
Date Received: 05/23/1994  
GWP Business Address: 1402 SYCAMORE MANOR DR  
GWP City: CHESTERFIELD  
GWP State: MO  
GWP Zip: 63017  
Qualify Number: 6,,,  
Fee Received: Y  
Renewal Date: 12/07/1995  
Renewal New: N  
Revoke Date: 01/01/1997

Lust Misc:  
Misc Due Date: Not reported      Misc Rec Date: 12/05/2002  
Misc Other: Not reported      Misc Title: MTBE WORKSHEET & DISK  
  
Misc Due Date: Not reported      Misc Rec Date: 06/11/2001  
Misc Other: Not reported      Misc Title: MTBE WORKSHEET & DISK

Lust Remediation:  
Heat Treatment: False  
Land Application: False  
On Site: False  
Achieved Over-Excavation: False  
Soil Venting Passive: False  
Soil Venting Active: False  
BioRemediation Passive: False  
BioRemediation Active: False  
In Situ GW Treatment - Air Sparging: False  
Ground Water: False  
Fresh Water: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MEESE DX SERVICE (Continued)**

**U003169200**

IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Lust Tier 2 Report:	
T2 Assesment Due:	06/30/2001
T2 Received:	06/11/2001
T2 Rejected:	11/19/2001
T2 Reviewed:	KDW
T2 Assesment Due:	06/20/2002
T2 Received:	06/13/2002
T2 Accepted:	07/16/2002
T2 Reviewed:	KDW
Lust Administration:	
ID:	1468
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	03/14/1990
Owner Broke:	No
CR Lien Named:	False
Delete:	False
Lust Track:	
ID:	1468
Site Assesment Start Date:	03/23/1990
Cleanup Start Date:	1990-03-21
Cleanup Complete Date:	2006-09-07
Date Classified:	2006-09-07
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MEESE DX SERVICE (Continued)**

**U003169200**

T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	NFA
T2 Actual GW Ingestion:	NFA
T2 Poten GW Ingestion from Protected GW:	NFA
T2 Poten GW Ingestion from Protected GW:	NFA
T2 GW Vapor to Enclosed Space:	NFA
T2 GW to Plastic Water Line:	NFA
T2 SW General Use:	NFA
T2 SW Designated Use:	NFA
T2 Soil Leaching to GW:	NFA
T2 Soil Vapor to Enclosed Space:	NFA
T2 Soil to Plastic Line:	NFA
Institutional Control Obtained:	False
<b>No Action Required:</b>	<b>False</b>
Priority Ranking:	1
Delete:	False
Track Memo:	03/21/90: OPTIONS LETTER SENT. REC'D 3/23/90. ASSUME OE CHOSEN, REPORT DUE 5/11/90.03/28/90: PHONE CALL FROM LAWYER ROGER FREEZE. CLIENT BELIEVES OTHERS ALSO RESPONSIBLE OR TOTALLY RESPONSIBLE. FEELS DEPT, UNDER 133 MUST PROVE WHO IS RESPONSIBLE.04/03/90: LETTER FROM LAWYER REQUESTING ADDITIONAL 60 DAYS SO CAN PURSUE OTHER PARTIES.04/16/90: LETTER TO RP ACCEPTING 60 DAY DELAY. CONSULTANT DUE DATE 6/23/90. ASSUME OE CHOSEN.OE REPORT DUE 7/30/90.04/15/92: SCR LTR SNT. REC'D 4/17/92. CNSLT DUE 5/17/92. SCR DUE 10/17/92. 05/29/94: OVD LTR SNT. REC'D 5/4. RSPNS DUE 5/14/94.05/12/94: LTR FROM RP. SCR TO DNR BY 7/30/94.08/18/99: Letter requiring T1/T2 sent, returned by post office as 'forwarding order expired.'11/16/99: T1 ltr snt. Rec'd 11/24. cnslt = 12/24/99. T1 = 2/24/2000.06/16/00: Sent first OD letter for T1 ----- due 6/29/00, letter returned.07/13/00: Resent first OD letter for T1, green card dated 7/17/00 ----- due 7/27/00.07/17/00: Telcon w/Roger Freese (319/452-3713), lawyer for Meese. Claims site has been sold. Liability xferred to new owner in sale. Requested documentation of liability xfer. JH09/25/00: Rec'd from GAB, copy of Remedial Benef. Transfer doc. New RP = Donald Hegarty of Stanwood, IA09/26/00: T1 ltr snt to new RP. Rec'd 9/28. Cnslt = 11/3. T1 = 12/29/2000.10/03/00: Copy of ltr from MPS to new RP re not eligible for Funding. Implementation of work on hold.08/28/00: Fund extension granted until 12/31/00 for T1.01/04/01: Letter to RP from UST Fund, agreement to establish definitive time for completion of all required reports, by 6/30/01.02/02/01: OD sent (fund letter) with due date for T1 of 2/14/01.02/21/01: Letter from RP and consultant stating T2 is required, and will be submitted by 6/30/01.06/08/01: REC'D UTILITY COMPANY NOTIFICATION.06/11/01: REC'D TIER 2 REPORT & DISK. MTBE WORKSHEET & DISK.11/19/01: Sent Tier 2 reject letter. GC dated 11/26/01. Revised Tier 2 due 02/26/02. --KW02/07/02: Rec'd GAB ltr approving revision to Tier 2 report by MPS for \$2350. --KW04/03/02: Letter sent scheduling revised T2 for 4/15/02.05/16/02: REC'D UTILITY COMPANY NOTIFICATION & SANITARY SEWER NOTIFICATION.06/05/02: Final OD letter sent with due date for revised T2 of 6/20/02.06/13/02: REC'D REVISED TIER 2

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MEESE DX SERVICE (Continued)**

**U003169200**

REPORT & DISK.06/28/02: REC'D TIER 2 DISK.07/16/02: Sent T2accept ltr HR 4 correct w/ CADR. GC date 7/22. PWL due 8/22. CGWP due 9/22. CADR due 11/20. --kw07/16/02: Sent APO letter. --kw08/01/02: Rec'd GAB Letter approving SMR budget by MPS for \$2040. --kw10/04/02: REC'D RESULTS OF PLASTIC WATER LINE SAMPLING. Both samples non-detect. --kw11/26/02: REC'D SMR. SMR TIER 2 DISK. SITE RECLASSIFICATION RECOMMENDED FROM HR INTERIM MONITORING TO NAR. MTBE WORKSHEET. (E-MAILED U. SHETYE & REQUESTED MTBE E-MAILED TO ME). Bsg12/05/02: REC'D MTBE PER E-MAIL. Bsg12/20/02: Gave file to PEI for review. --kw08/17/04: Sent Reclash SMR reject letter. Data indicates site is NFA. However, PWL sample from residence at 316 South Main detected 2,400 ppb teh as gasoline. Lab indicated the chromatogram matches the high end of gasoline. Requiring additional assessment to confirm extent of contamination. New soil & GW data in SMR due 10/30/04. GC returned unclaimed. --kw09/01/04: GAB letter approving SMR budget by MPS for \$3410 to \$4660. --kw10/18/04: Resent SMR reject letter to new address for Donald Hegarty. 8/17 letter was returned. SMR still due 10/30/04. --kw10/20/04: Rec'd call from attorney Brad Norton (563-452-3713). Now representing Donald Hegarty. Mr. Freese has passed away. Referred Mr. Norton to Neil Searcy to verify funding eligibility. Appears Mr. Hegarty should be in global settlement. --kw01/13/05: TC sent work request to FO6 to investigate 500 gallon unregulated heating oil tank & 550 gallon waste oil tank noted in our database as being installed in 1954 and currently in use. May be the source of our problems. --kw01/18/05: Call to/from CGWP. Will submit OD SMR within 2 weeks. --kw01/20/05: Call from Terry Jones w/ FO6. Vent pipes at site. Appears USTs may still be there. Ground too frozen to tell for sure. Will revisit site when temps are warmer. Also indicated USTs were pulled on east side of street just north of house with contamination in PWL. May have to request additional investigation in that area. --kw02/10/05: Telecon with Brad Norton, attorney for Don Hegarty. Don planning to sell property & transfer liability and benefits. Asked for letter informing us of new RP and mailing address. Referred to Neil to transfer UST Fund benefits properly. --kw10/20/05: REC'D LETTER FROM BRADLEY NORTON, ATTORNEY FOR DON HEGARTY RE: PROPERTY SOLD TO MATTHEW & MICHELLE WAGNER. NEED TO TRANSFER THE RESPONSIBLE PARTY TO WAGNERS. --kw12/09/05: Called Bradley Norton. Told Brad to call Lacy Skalicky or Neil Searcy to obtain transfer of benefits form. Informed Brad that Donald Hegarty is still our RP. Brad will do. --kw06/20/06: REC'D TRANSFER OF BENEFITS FORM FROM GAB. DONALD HEGARTY TRANSFERRED BENEFITS TO MATHEW AND MICHELLE WAGNER OF MECHANICSVILLE, IA. --kw07/20/06: Sent letter to Mathew Wagner, new RP. Scheduled 10/30/06 as SMR submittal date. Noted all 6 comments/concerns in DNR letter dated 8/17/04 must be addressed. GC signed by Anthony Wagner and dated 7/24. --kw07/20/06: Sent work request to FO6 to check site for presence of 550 gallon waste oil and 550 gallon heating oil tank. If present, waste oil tank must be removed. No FR. Heating oil tank is unregulated. --kw07/27/06:

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FORMER MEESE DX SERVICE (Continued)**

**U003169200**

Telephone conversation w/ CGWP. CGWP completed and sent SMR to former RP in 2004 requesting reclassification. DNR did not receive. CGWP will communicate w/ new RP and send SMR to DNR. --kw07/27/06: REC'D SMR. SITE RECLASSIFICATION RECOMMENDED FROM HR: INTERIM TO NAR. (DISK ERROR) E-MAILED AMIT PRADHAN & REQUESTED TIER 2 SOFTWARE & TIER 2 SMR SOFTWARE E-MAILED TO ME. Bsg07/31/06: REC'D TIER 2 SMR SOFTWARE & TIER 2 SOFTWARE PER E-MAIL. Bsg08/07/06: Telephone conversation with Tony (Matthew) Wagner. Phone # for Tony is 319-521-0013. Tony has assumed responsibility for LUST issues and confirmed receipt of remedial benefits. Informed Tony that ball is back in my court since I just rec'd a SMR that needs reviewed. Tony also met Terry Jones last Thursday while Terry was inspecting site. Tony seemed very reasonable and easy to work with. He will await my review letter. --kw08/09/06: E-mail from FO6. Did not see any evidence of existing USTs on site. --kw09/07/06: Sent NAR letter. Installed additional MWs in search of source of contamination. Nothing found on site or on property east of site. Collected more samples from PWLs. Non-detect for everything. No choice but to NFA. --kw09/20/06: GAB letter approving well abandonment budget by MPS for \$1,395. --kw11/28/06: REC'D ABANDONED WATER WELL PLUGGING RECORDS & LEGAL DESCRIPTION. Bsg

UST:

Facility Id:	3334
Loc Id:	3334
Registration:	198602825
Owner Type:	Private/Corporate
Financial Code:	16
Registration Sign Date:	12/28/1985
Created By:	migration
Created Date:	01/08/2007
Changed By:	migration
Last Changed:	01/08/2007
Latitude:	41.88869
Longitude:	-91.14967
Otype ID Decode:	Private/Corporate

Tank Info:

Tank Num:	7714
In Use:	False
Tank Type:	1
Material Construction:	Double Wall Steel
Tank Num:	7715
In Use:	False
Tank Type:	1
Material Construction:	Double Wall Steel
Tank Num:	7716
In Use:	True
Tank Type:	1
Material Construction:	Double Wall Steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MEESE DX SERVICE (Continued)**

**U003169200**

Tank Num: 7717  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

IA Financial Assurance 1:

Name: FORMER MEESE DX SERVICE  
Address: 203 E HWY 30  
City,State,Zip: STANWOOD, IA 523370000  
Facility ID: 198602825  
Financial Code: 16

7  
SSE  
1/4-1/2  
0.293 mi.  
1548 ft.

**STANWOOD FOOD MART**  
**1118 HIGHWAY 30**  
**STANWOOD, IA 52337**

**LUST** **U003640551**  
**UST** **N/A**  
**SPILLS**  
**Financial Assurance**

**Relative:**  
**Higher**  
**Actual:**  
**841 ft.**

LUST:  
Name: STANWOOD FOOD MART  
Address: 1118 HIGHWAY 30  
City: STANWOOD  
Facility ID: 5472  
Discover Date: 10/01/1990  
Leak Number: 8LTP36  
Loc ID: 68012  
Ust ID: 16785  
Latitude: 41.88828  
Longitude: -91.14857  
Start Date: 08/02/1991  
Lead ID: 5  
Coordinator ID: 11  
Staff ID: 11  
Discover Method ID: 5  
Leak Status: Unknown  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

Lust Status:  
ID: 5474  
Site Leak Number: 8LTP36  
Discovered During: Other  
Tanks Removed: 00  
Leak Cause: UNK  
Diesel: Yes  
Leak Status: Unknown  
Loc Soil: Yes  
Officials Onsite None: Yes  
Delete: False

Lust Cause:  
Release Cause: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANWOOD FOOD MART (Continued)**

**U003640551**

Lust Misc:

Misc Due Date: 10/13/1991  
Misc Other: Not reported

Misc Rec Date: 09/23/1991  
Misc Title: Not reported

Lust Remediation:

Heat Treatment: False  
Land Application: False  
On Site: False  
Achieved Over-Excavation: False  
Soil Venting Passive: False  
Soil Venting Active: False  
BioRemediation Passive: False  
BioRemediation Active: False  
In Situ GW Treatment - Air Sparging: False  
Ground Water: False  
Fresh Water: False  
IGT - pH Adjustment: False  
Nutrient: False  
Oxygen: False  
Biological: False  
Other: False  
Surface Treatment - Carbon Absorption: False  
Biological: False  
ST Other: False  
TDT Sanitary Sewer: False  
TDT Storm Sewer: False  
Stream: False  
TDT Other: False  
Reduced Risk Plugged Well: False  
RR Replace: False  
RR Relocate: False  
RR Other: False  
Delete: False

Lust Free Product Recovery:

Lust Administration:

ID: 5474  
Owner Identified: Yes  
Responsible Party Found: Yes  
RP Date: 08/02/1991  
Owner Broke: Yes  
CR Lien Named: False  
Delete: False

Lust Track:

ID: 5474  
Site Assesment Start Date: 08/13/1991  
Release Not Verified Date: 1991-09-30  
Date Classified: 1991-09-30  
Risk Classification -NFA: True  
Class - Low Risk: False  
Class - High Risk: False  
Lust Current: No Action Required  
T1 Actual GW Ingestion: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANWOOD FOOD MART (Continued)**

**U003640551**

T1 Poten GW Ingestion from Protected GW: False  
T1 Poten GW Ingestion from Protected GW: False  
T1 GW Vapor to Enclosed Space: False  
T1 GW to Plastic Water Line: False  
T1 Surface Water: False  
T1 Soil Leaching to GW: False  
T1 Soil Vapor to Enclosed Space: False  
T1 Soil to Plastic Line: False  
Institutional Control Obtained: False  
**No Action Required: False**  
Delete: False  
Track Memo: 08/09/91: CONFIRMAT LTR SNT. REC'D 8/13/91. RPT DUE  
10/13/91.09/24/91: RPT RE GW & SOIL SMPL REC'D.09/30/91:  
REV OF RPT. NO FURTHER ACTION LTR SENT.

Name: STANWOOD FOOD MART  
Address: 1118 HIGHWAY 30  
City: STANWOOD  
Facility ID: 6291  
Discover Date: 09/25/2008  
Record Date: 10/06/2008  
Leak Number: 9LTN78  
Loc ID: 68665  
Ust ID: 16785  
Latitude: 41.88828  
Longitude: -91.14857  
Start Date: 10/07/2008  
Lead ID: 4  
Coordinator ID: 7182  
Staff ID: 25  
Tanks Removed: 0  
Created Date: 10/07/2008  
Created By: sherry.blaisdell  
Last Changed: 11/09/2015  
Changed By: Vander Bloemen.Tammy

UST:  
Facility Id: 16785  
Loc Id: 16785  
Registration: 199017206  
Owner Type: Private/Corporate  
Financial Code: 15  
Insurer's Name: PMMIC  
Policy Number: 9017206  
Policy Start Date: 10/30/2019  
Policy End Date: 10/29/2020  
Registration Sign Date: 12/15/1990  
Created By: migration  
Created Date: 01/08/2007  
Changed By: Ingle.Cara  
Last Changed: 06/19/2020  
Latitude: 41.88827  
Longitude: -91.14857  
Otype ID Decode: Private/Corporate

Tank Info:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANWOOD FOOD MART (Continued)**

**U003640551**

Tank Num: 41480  
In Use: True  
Tank Type: 6  
Filled In Place: False  
Material Construction: Double Wall Steel  
Emergency Power Gen: False

Tank Num: 41481  
In Use: True  
Tank Type: 6  
Filled In Place: False  
Material Construction: Double Wall Steel  
Emergency Power Gen: False

Tank Num: 41482  
In Use: True  
Tank Type: 6  
Filled In Place: False  
Material Construction: Double Wall Steel  
Emergency Power Gen: False

Tank Num: 41483

Tank Num: 41484  
In Use: True  
Tank Type: 6  
Filled In Place: False  
Material Construction: Double Wall Steel  
Emergency Power Gen: False

**SPILL:**

Name: PETRO MART  
Address: 1118 HWY 30  
City,State,Zip: STANWOOD, IA 52337  
Facility ID: 081612-B1L-1030  
Reported Date: 08/16/2012  
Reported Time: 10:30:00  
Field Office: 6  
Company Name: Petro Mart  
Company Address1: 1118 Hwy 30  
Company City/State/Zip: Stanwood, IA 52337  
Company Phone: (563)9423332  
Company Fax No: ()  
Company Start Date: 08/16/2012  
Company Contact Name: Balwinder Boyal  
Contact Address1: 1118 Hwy 30  
Company Contact City/State/Zip: Stanwood, IA 52337  
Company Contact Phone: (563)9423332  
Company Contact Fax No: ()  
Company Contact Start Date: 08/16/2012

**IA Financial Assurance 1:**

Name: STANWOOD FOOD MART  
Address: 1118 HIGHWAY 30  
City,State,Zip: STANWOOD, IA 52337

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STANWOOD FOOD MART (Continued)**

**U003640551**

Facility ID: 199017206  
Insurers Name: PMMIC  
Policy End Date: 10/29/2020  
Financial Code: 15  
Policy Number: 9017206  
Policy Start Date: 10/30/2019

**8**  
**SSE**  
**1/4-1/2**  
**0.300 mi.**  
**1586 ft.**

**HOME OIL CO**  
**404 EAST HWY 30**  
**STANWOOD, IA 52337**

**LUST** **U003170357**  
**UST** **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**842 ft.**

**LUST:**  
Name: HOME OIL CO  
Address: 404 EAST HWY 30  
City: STANWOOD  
Facility ID: 2889  
Spill Number: 11027-JHG-  
Discover Date: 11/02/1987  
Discover Time: 8:00 AM  
Record Date: 02/15/1989  
Leak Number: 7LTX72  
Loc ID: 65251  
Ust ID: 6636  
Latitude: 41.88871  
Longitude: -91.14695  
Start Date: 02/15/1989  
Date Occurred Time: 8:00 AM  
Lead ID: 5  
Coordinator ID: 11  
Staff ID: 11  
Tanks Removed: 0  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 11/19/2010  
Changed By: verne.schrunk@dnr.iowa.gov

**Lust Status:**  
ID: 2890  
Site Leak Number: 7LTX72  
Discovered During: Other  
Tanks Removed: 0  
Gas: Yes  
Diesel: Yes  
Gallons Released: 000000000000  
Leak Status: Stopped  
Loc Soil: Yes  
Loc Ground Water: Yes  
Res Other: Yes  
Delete: False

**Lust Misc:**  
Misc Due Date: Not reported  
Misc Other: Not reported  
Misc Rec Date: 02/19/2004  
Misc Title: MTBE WORKSHEET & DISK  
Misc Due Date: Not reported  
Misc Other: Not reported  
Misc Rec Date: 10/18/1999  
Misc Title: MTBE WORKSHEET & DISK

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HOME OIL CO (Continued)**

**U003170357**

Misc Due Date:	Not reported	Misc Rec Date:	03/02/2005
Misc Other:	Not reported	Misc Title:	MTBE WORKSHEET & DISK
Misc Due Date:	Not reported	Misc Rec Date:	03/31/2006
Misc Other:	Not reported	Misc Title:	MTBE WORKSHEET & DISK
Misc Due Date:	Not reported	Misc Rec Date:	10/25/2006
Misc Other:	Not reported	Misc Title:	MTBE WORKSHEET & DISK

Lust Remediation:

Heat Treatment:	False
Land Application:	False
On Site:	False
Achieved Over-Excavation:	False
Soil Venting Passive:	False
Soil Venting Active:	False
BioRemediation Passive:	False
BioRemediation Active:	False
In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False

Lust Tier 2 Report:

T2 Assesment Due:	03/10/2003
T2 Received:	03/05/2003
T2 Rejected:	05/08/2003
T2 Reviewed:	VKS

T2 Assesment Due:	07/13/2003
T2 Received:	07/18/2003
T2 Accepted:	02/02/2004
T2 Reviewed:	VKS

T2 Assesment Due:	09/30/1999
T2 Received:	10/18/1999
T2 Accepted:	11/18/1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HOME OIL CO (Continued)

U003170357

Lust Administration:

ID: 2890  
Owner Identified: Yes  
Responsible Party Found: Yes  
RP Date: 12/02/1987  
Owner Broke: No  
ER Date: 11/02/1987  
CR Lien Named: False  
Delete: False

Lust Track:

ID: 2890  
Site Assessment Start Date: 12/02/1987  
Cleanup Start Date: 1988-03-28  
Date Classified: 1999-11-18  
Risk Classification -NFA: False  
Class - Low Risk: False  
Class - High Risk: True  
Lust Current: High Risk  
T1 Actual GW Ingestion: False  
T1 Poten GW Ingestion from Protected GW: False  
T1 Poten GW Ingestion from Protected GW: False  
T1 GW Vapor to Enclosed Space: False  
T1 GW to Plastic Water Line: False  
T1 Surface Water: False  
T1 Soil Leaching to GW: False  
T1 Soil Vapor to Enclosed Space: False  
T1 Soil to Plastic Line: False  
Tier 2 Consultant Recommends: High Risk  
T2 Actual GW Ingestion: NFA  
T2 Poten GW Ingestion from Protected GW: Low Risk  
T2 Poten GW Ingestion from Protected GW: NFA  
T2 GW Vapor to Enclosed Space: NFA  
T2 GW to Plastic Water Line: High Risk  
T2 SW General Use: NFA  
T2 SW Designated Use: NFA  
T2 Soil Leaching to GW: High Risk  
T2 Soil Vapor to Enclosed Space: High Risk  
T2 Soil to Plastic Line: NFA  
Institutional Control Obtained: False  
**No Action Required: False**  
Priority Ranking: 1  
Delete: False  
Track Memo: ASSESSMENT PLAN APPROVED BY FO 6, AL GOLDBERG. HOME OIL WAS TO SEND COPY OF REMEDIATION PLAN TO CENTRAL OFFICE FOR REVIEW AND APPROVAL. CLEANUP NOW IN PROGRESS. STARTED PUMPING IN JULY, 1988.01/12/98: OVD SMR/T1 LTR SNT. RECD 1/14. SMR RPT = 2/14. IF DO RBCA, T1 = 4/14.05/15/98: T1 SAR TE LTR SNT. T1 = 11/6/98.06/03/98: RECD SMR.11/24/98: RECD SMR.05/10/99: T1 ovd ltr snt. Rec'd 5/11. T1 = 7/11/99.05/14/99: Ltr from cnslt. Will do T2. Also asked for 'indefinite' TE since have access problems. DW involved.06/17/99: T2 due date 9/16/99 per Seneca schedule.09/16/99: Schedule submitted by Seneca with due date for T2 of 9/30/99.10/18/99: REC'D TIER 2 REPORT & DISK & MTBE WORKSHEET & DISK.11/18/99: ACC T2 HI. DEF W/CADR.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

HOME OIL CO (Continued)

U003170357

REC'D 11/19. CGWP = 01/19/00; CADR = 03/20/00.  
--ras.11/18/99: SENT NOTICE OF SCR APPROVAL TO ADJ PROP OWNERS. --ras.06/07/00: CWGP is Cruikshank 1701 per Seneca letter.04/17/01: Budget approval for SMR to reclassify the site. JH10/12/01: Letter sent scheduling SMR for 10/30/01.12/14/01: Schedule changes received from Seneca. Will submit an SMR in lieu of a CADR to reclassify the site. SMR will be submitted by 5/30/02.11/01/02: First OD letter sent with due date for SMR to reclassify of 11/13/02. Green card dated 11/4.12/02/02: REC'D TIER 3 WORK PLAN. Includes re-done T2 (new gw source via 2002 SMR smpng).12/12/02: REC'D TIER 2 SOFTWARE DISK. Bsg01/16/03: Revsns to T2 in T3 Wrkpln ltr snt. Rej. T2 revsns = 3/10/03. T3 wrkpln review 'on hold' till T2 okd.03/05/03: REC'D REVISED TIER 2 REPORT (No disk).05/08/03: Revsd T2 rev ltr snt. Rej. Recd 5-15. Next rvsn = 6/23.06/30/03: Final OD letter sent for revised T2. Due 7/13/03 Green card dated 7/3/03.07/18/03: REC'D TIER 2 REVISIONS. Bsg02/02/04: July 03 T2 revsns rev ltr snt. Ok. Rec'd 2/9. Will begin T3 Wrk pln rev.02/03/04: T3 Wrk pln rev ltr snt. Ok. Rec'd 2/9. Will monitor gw re gw to PWL & SL to gw to PWL.02/19/04: REC'D SMR & SMR DISK. Reqst for re-classif NOT made. (HR: INTERIM) MTBE WORKSHEET & DISK. Bsg01/05/05: REC'D FROM SENECA EXTENSION REQUEST FOR SMR/RT2 UNTIL 2/28/05. Bsg03/02/05: REC'D REVISED TIER 2 REPORT. HR. TIER 2 SOFTWARE DISK. MTBE WORKSHEET & DISK. bsg06/17/05: Feb 05 T2 comment ltr snt. Should not have been submitted. Used wrong format (need SMR). T3 SMR = 11/30/05.01/10/06: Per phone convers w/City clerk (Karen Stolte) re potential City DWW install, sent various maps (cause Engineering firm on City retainer somehow couldn't [or wouldn't] get them from Records).03/31/06: REC'D SMR. HR: INTERIM. TIER 2 SMR SOFTWARE DISK. MTBE WORKSHEET & DISK. bsg10/25/06: REC'D SMR. TIER 3 MONITORING. TIER 2 SMR SOFTWARE DISK. MTBE WORKSHEET & DISK. bsg

UST:

Facility Id: 6636  
Loc Id: 6636  
Registration: 198606318  
Owner Type: Private/Corporate  
Registration Sign Date: 03/08/1989  
Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 41.88871  
Longitude: -91.14695  
Type ID Decode: Private/Corporate

Tank Info:

Tank Num: 18444  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOME OIL CO (Continued)**

**U003170357**

Tank Num: 18445  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

Tank Num: 18446  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

Tank Num: 18447  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

Tank Num: 18448  
In Use: False  
Tank Type: 1  
Material Construction: Composite (steel with FRP)

Tank Num: 18449  
In Use: False  
Tank Type: 1  
Material Construction: Composite (steel with FRP)

**9**  
**SSW**  
**1/4-1/2**  
**0.313 mi.**  
**1653 ft.**

**IOWA DEPT OF TRANSPORTATION**  
**387 1ST AVE**  
**STANWOOD, IA 52337**

**LUST** **1011285061**  
**UST** **N/A**  
**FINDS**

**Relative:**  
**Lower**  
**Actual:**  
**831 ft.**

**LUST:**  
Name: IOWA DEPT OF TRANSPORTATION  
Address: HWY 30  
City: STANWOOD  
Facility ID: 4273  
Discover Date: 07/14/1992  
Record Date: 07/29/1992  
Leak Number: 8LTU01  
Loc ID: 66716  
Ust ID: 9373  
Latitude: 41.88874  
Longitude: -91.15296  
Start Date: 08/03/1992  
Lead ID: 4  
Coordinator ID: 11  
Staff ID: 25  
Discover Method ID: 3  
Leak Status: Stopped  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

Lust Status:  
ID: 4275  
Site Leak Number: 8LTU01

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA DEPT OF TRANSPORTATION (Continued)

1011285061

Discovered During: Removal  
Tanks Removed: 01  
Gas: Yes  
Gallons Released: 000000000000  
Leak Status: Stopped  
Loc Ground Water: Yes  
Officials Onsite None: Yes  
Delete: False

Lust HICA:

Leak Number: 8LTU01  
Registration Number: 198609257  
Date CorrectiveActionDesign Report(CADR) Rec:06/09/2000  
Date CADR Due: 08/21/2000  
Date CADR Approved: 08/22/2000  
Staff CADR Reviewed By: TMV

Lust Misc:

Misc Due Date: Not reported  
Misc Other: Not reported  
Misc Rec Date: 03/03/2000  
Misc Title: MTBE WORKSHEET & DISK

Lust Remediation:

Heat Treatment: False  
Land Application: False  
On Site: False  
Achieved Over-Excavation: False  
Soil Venting Passive: False  
Soil Venting Active: False  
BioRemediation Passive: False  
BioRemediation Active: False  
In Situ GW Treatment - Air Sparging: False  
Ground Water: False  
Fresh Water: False  
IGT - pH Adjustment: False  
Nutrient: False  
Oxygen: False  
Biological: False  
Other: False  
Surface Treatment - Carbon Absorption: False  
Biological: False  
ST Other: False  
TDT Sanitary Sewer: False  
TDT Storm Sewer: False  
Stream: False  
TDT Other: False  
Reduced Risk Plugged Well: False  
RR Replace: False  
RR Relocate: False  
RR Other: False  
Delete: False

Lust Tier 2 Report:

T2 Assesment Due: 11/20/1999  
T2 Received: 03/03/2000  
T2 Accepted: 04/17/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA DEPT OF TRANSPORTATION (Continued)

1011285061

T2 Reviewed:	TMV
Lust Administration:	
ID:	4275
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	08/04/1992
Owner Broke:	No
CR Lien Named:	False
Delete:	False
Lust Track:	
ID:	4275
Site Assesment Start Date:	08/21/1992
Cleanup Start Date:	1994-12-20
Cleanup Complete Date:	2000-08-22
Cleanup Report Due Date:	1994-03-16
Cleanup Report Received Date:	1994-06-28
Cleanup Report Approved Date:	1994-12-20
Date Classified:	2000-08-22
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	NFA
T2 Actual GW Ingestion:	NFA
T2 Poten GW Ingestion from Protected GW:	NFA
T2 Poten GW Ingestion from Protected GW:	NFA
T2 GW Vapor to Enclosed Space:	NFA
T2 GW to Plastic Water Line:	NFA
T2 SW General Use:	NFA
T2 SW Designated Use:	NFA
T2 Soil Leaching to GW:	NFA
T2 Soil Vapor to Enclosed Space:	NFA
T2 Soil to Plastic Line:	NFA
Institutional Control Obtained:	False
NFA Certificate Sent:	2000-10-24
<b>No Action Required:</b>	<b>False</b>
Priority Ranking:	5
Delete:	False
Track Memo:	08/20/92: SCR LTR SNT. REC'D 8/21/92. CNSLT DUE 9/21. SCR DUE 2/21/93.02/17/93: PROFS NOTE RE TE. SCR DUE 5/15/93.06/01/93: TE LTR SNT. SCR DUE 6/15.07/28/93: REC'D SCR.12/16/93: RP REC'D SCR REJECT LTR, REVSN DUE 3/15/94.06/28/94: REC'D SCR.12/20/94: SCR OK, HI-5, MON. SMR REC'D: 6/19/97, 6/17/98.05/19/99: T1 ltr snt. Rec'd 5/20. T1 = 8/20/99.09/02/99: Will do T2, due

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA DEPT OF TRANSPORTATION (Continued)

1011285061

11/20/99.03/03/00: REC'D TIER 2 REPORT & DISK. MTBE WORKSHEET & DISK.04/17/00: Sent T2 accept ltr High Risk CADR due 08/21/00 with corrections green card dated 04/19/00. tvb04/17/00: Sent neighbor notice ltr. tvb06/09/00: REC'D CADR & TIER 2 DISK.08/22/00: Sent nfa ltr. Tvb

UST:

Facility Id: 9373  
Loc Id: 9373  
Registration: 198609257  
Owner Type: State  
Registration Sign Date: 04/14/1986  
Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 41.88874  
Longitude: -91.15296  
Otype ID Decode: State

Tank Info:

Tank Num: 28075  
In Use: False  
Tank Type: 4  
Material Construction: 11

Tank Num: 28076  
In Use: False  
Tank Type: 4  
Material Construction: 11

FINDS:

Registry ID: 110036239870

Click Here:

Environmental Interest/Information System:

IDNR-EFD (Iowa Department Of Natural Resources - Emission Factor Documentation) provides information about existing emission factors

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

10  
SE  
1/4-1/2  
0.352 mi.  
1860 ft.

SMITHWAY MOTOR EXPRESS  
601 E FRONT ST  
STANWOOD, IA 52337

LUST U003170263  
UST N/A

Relative:  
Higher  
Actual:  
848 ft.

LUST:  
Name: SMITHWAY MOTOR EXPRESS  
Address: 601 E FRONT ST  
City: STANWOOD  
Facility ID: 2757  
Record Date: 06/14/1991  
Leak Number: 8LTO70

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SMITHWAY MOTOR EXPRESS (Continued)**

**U003170263**

Loc ID: 65113  
Ust ID: 6382  
Latitude: 41.88885  
Longitude: -91.14490  
Start Date: 07/03/1991  
Lead ID: 5  
Coordinator ID: 11  
Discover Method ID: 3  
Leak Status: Stopped  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

Lust Status:

ID: 2758  
Site Leak Number: 8LTO70  
Discovered During: Removal  
Tanks Removed: 01  
Leak Cause: UNK  
Diesel: Yes  
Leak Status: Stopped  
Loc Soil: Yes  
Officials Onsite None: Yes  
Delete: False

Lust Cause:

Release Cause: Unknown

Lust Misc:

Misc Due Date: 02/25/1993      Misc Rec Date: 02/19/1993  
Misc Other: Not reported      Misc Title: Not reported

Lust Remediation:

Heat Treatment: False  
Land Application: False  
On Site: False  
Achieved Over-Excavation: True  
Soil Venting Passive: False  
Soil Venting Active: False  
BioRemediation Passive: False  
BioRemediation Active: False  
In Situ GW Treatment - Air Sparging: False  
Ground Water: False  
Fresh Water: False  
IGT - pH Adjustment: False  
Nutrient: False  
Oxygen: False  
Biological: False  
Other: False  
Surface Treatment - Carbon Absorption: False  
Biological: False  
ST Other: False  
TDT Sanitary Sewer: False  
TDT Storm Sewer: False  
Stream: False

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SMITHWAY MOTOR EXPRESS (Continued)**

**U003170263**

TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Lust Administration:	
ID:	2758
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	07/03/1991
Owner Broke:	No
CR Lien Named:	False
Delete:	False
Lust Track:	
ID:	2758
Site Assesment Start Date:	11/12/1991
Achieved Over-Excavation:	Yes
Cleanup Start Date:	1991-06-14
Cleanup Complete Date:	1993-03-15
Date Classified:	1993-03-15
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Institutional Control Obtained:	False
<b>No Action Required:</b>	<b>False</b>
Delete:	False
Track Memo:	07/11/91: REC'D FROM LC - OE/CLOSURE RPT.09/27/91: REC'D GW SMPL RSLTS.11/07/91: LTR SNT REQUIRING UPDATED CLOSURE/OE RPT. REC'D 11/12/91. DUE 1/12/92.11/22/91: RSPNS TO 11/7/91 LTR. REQUESTED COPY OF SCR & CHAPT 135. SNT 135 & RSPNS THAT SCR WOULD BE SNT AROUND 1/1/92. ON 'HOLD'.07/16/92: LTR TO RP RE-AFFIRMING CHOICE OF 11/7/91 LTR OR SCR. REC'D 7/20/92. RSPNS DUE 9/21/92.09/14/92: LTR TO RP REQRNG SOIL SMPL. RPT DUE 12/16/92.11/23/92: LTR SAYING NEED SOIL SMPL FROM GREEN COLORED MATERIAL. DUE 2/25/93.03/15/93: NFA LTR SNT. REC'D 3/17/93.
UST:	
Facility Id:	6382
Loc Id:	6382
Registration:	198606053
Owner Type:	Private/Corporate

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SMITHWAY MOTOR EXPRESS (Continued)**

**U003170263**

Registration Sign Date: 04/21/1986  
Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 41.88885  
Longitude: -91.14490  
Otype ID Decode: Private/Corporate

Tank Info:

Tank Num: 17545  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

Tank Num: 17546  
In Use: False  
Tank Type: 1  
Material Construction: Double Wall Steel

11  
SE  
1/4-1/2  
0.484 mi.  
2554 ft.

**FERRELLGAS**  
**1148 HIGHWAY 30**  
**STANWOOD, IA**

**LAST S108649158**  
**ALLSITES N/A**

**Relative:**  
**Higher**  
**Actual:**  
**849 ft.**

LAST:  
Name: FERRELLGAS  
Address: 1148 HIGHWAY 30  
City: STANWOOD  
Site ID: 1057  
Site Status Description: Closed  
Type Description: AST  
Ownership Type Description: Private  
Project Manager: Matt Culp  
Program Type Description: Chapter 133

ALLSITES:

Name: FERRELLGAS  
Address: 1148 HIGHWAY 30  
City,State,Zip: STANWOOD, IA  
Site Id Number: 1057  
Project Manager: Matt Culp  
Ownership Type: Private  
Status: Closed  
Status Date: 8/9/2007  
Program: Chapter 133  
Site Type: AST  
Brownfield Eligible: False  
Registry: False  
Institutional Control: False  
Priority: 0  
Latitude: 41.8883  
Longitude: -91.14263  
XCoord: 654095  
YCoord: 4639043

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
IA	AIRS	Minor and Title V Sources Listing	Department of Natural Resources	12/07/2020	12/10/2020	02/26/2021
IA	ALLSITES	Contaminated Sites Tracking Database	Department of Natural Resources	10/12/2020	10/13/2020	01/04/2021
IA	AST	Aboveground Storage Tank Sites	Department of Public Safety	01/01/2021	01/05/2021	02/11/2021
IA	BROWNFIELDS	Brownfields Site Listing	Department of Natural Resources	10/12/2020	10/13/2020	01/04/2021
IA	COAL ASH	Coal Ash Disposal Site Listing	Department of Natural Resources	11/30/2020	12/01/2020	02/11/2021
IA	DEL SHWS	Delisted Contaminated Sites Listing	Department of Natural Resources	12/31/2017	01/24/2018	02/23/2018
IA	DRYCLEANERS	Iowa Drycleaner List	Department of Natural Resources	07/07/2020	07/10/2020	09/28/2020
IA	Financial Assurance 1	Financial Assurance Information Listing	Department of Natural Resources	12/07/2020	12/09/2020	02/24/2021
IA	Financial Assurance 2	Financial Assurance Information Listing	Department of Natural Resources	11/24/2020	11/30/2020	02/11/2021
IA	INST CONTROL	Sites with Institutional Controls	Department of Natural Resources	10/12/2020	10/13/2020	01/04/2021
IA	LAST	Leaking Aboveground Storage Tank Sites	Department of Natural Resources	10/12/2020	10/13/2020	01/04/2021
IA	LIENS	Liens Filed Listing	Department of Natural Resources	12/02/2020	01/20/2021	02/05/2021
IA	LUST	Leaking Underground Storage Tank Data	Department of Natural Resources	12/07/2020	12/09/2020	02/24/2021
IA	NPDES	List of NPDES Permittees	Department of Natural Resources	10/01/2020	11/10/2020	01/27/2021
IA	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Natural Resources		07/01/2013	01/03/2014
IA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Natural Resources		07/01/2013	12/26/2013
IA	SHWS	Registry of Hazardous Waste or Hazardous Substance Disposal	Department of Natural Resources	12/31/2019	01/24/2020	03/20/2020
IA	SPILLS	Spills Database	Department of Natural Resources	11/30/2020	12/01/2020	02/11/2021
IA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	10/17/2012	01/03/2013	03/05/2013
IA	SWF/LF	Permitted Solid Waste Management Facilities	Department of Natural Resources	11/30/2020	12/01/2020	02/11/2021
IA	TIER 2	Tier 2 Information Listing	Department of Natural Resources	12/31/2019	06/11/2020	09/04/2020
IA	UST	Underground Storage Tank Data	Department of Natural Resources	12/07/2020	12/09/2020	02/24/2021
IA	VCP	Land Recycling Program Sites	Department of Natural Resources	10/12/2020	10/13/2020	01/04/2021
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/11/2020	12/11/2020	03/02/2021
US	BRS	Biennial Reporting System	EPANTIS	12/31/2017	06/22/2020	11/20/2020
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2019	12/01/2020	02/09/2021
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2020	10/08/2020	01/04/2021
US	CORRACTS	Corrective Action Report	EPA	12/14/2020	12/17/2020	12/22/2020
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	11/03/2020	11/17/2020	02/09/2021
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	12/30/2020	01/14/2021	02/09/2021
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	10/03/2020	10/06/2020	01/04/2021
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/14/2020	12/15/2020	12/22/2020
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	04/03/2019	04/05/2019	05/14/2019
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	07/21/2020	09/03/2020	11/25/2020
US	FINDS	Facility Index System/Facility Registry System	EPA	11/04/2020	12/01/2020	01/25/2021
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	09/29/2020	11/17/2020	01/25/2021
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	11/13/2020	11/13/2020	01/25/2021
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/16/2020	12/17/2020	03/12/2021
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Services, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/07/2020	12/16/2020	03/12/2021
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/01/2020	12/16/2020	03/12/2021
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/07/2020	12/16/2020	03/12/2021
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/01/2020	12/16/2020	03/12/2021
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	12/30/2020	01/14/2021	02/09/2021
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	12/30/2020	01/14/2021	02/18/2021
US	LUCIS	Land Use Control Information System	Department of the Navy	11/11/2020	11/17/2020	02/09/2021
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	11/24/2020	11/30/2020	01/25/2021
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/05/2020	08/10/2020	10/08/2020
US	NPL	National Priority List	EPA	12/30/2020	01/14/2021	02/09/2021
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	10/09/2019	10/11/2019	12/20/2019
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PCS INACTIVE	Listing of Inactive PCS Permits	EPA	11/05/2014	01/06/2015	05/06/2015
US	PRP	Potentially Responsible Parties	EPA	12/30/2020	01/14/2021	03/05/2021
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/30/2020	01/14/2021	02/09/2021
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	12/14/2020	12/17/2020	12/22/2020
US	RMP	Risk Management Plans	Environmental Protection Agency	11/02/2020	11/12/2020	01/25/2021
US	ROD	Records Of Decision	EPA	12/30/2020	01/14/2021	02/18/2021
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	12/30/2020	01/14/2021	02/18/2021
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	12/30/2020	01/14/2021	02/18/2021
US	SSTS	Section 7 Tracking Systems	EPA	10/19/2020	10/19/2020	01/04/2021
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2018	08/14/2020	11/04/2020
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/17/2020	09/10/2020
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	12/11/2020	12/11/2020	03/02/2021
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	10/28/2020	11/05/2020	11/18/2020
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	12/14/2020	12/17/2020	03/12/2021
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	10/28/2020	11/05/2020	11/18/2020
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/03/2020	11/23/2020	01/25/2021
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2018	07/02/2020	09/17/2020
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	08/10/2020	10/20/2020	11/02/2020
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	04/29/2020	07/10/2020
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2019	02/11/2021	02/24/2021
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
IA	Daycare Centers	Sensitive Receptor: Child Care Facilities	Department of Human Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

<u>St</u>	<u>Acronym</u>	<u>Full Name</u>	<u>Government Agency</u>	<u>Gov Date</u>	<u>Arvl. Date</u>	<u>Active Date</u>
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
IA	State Wetlands	National Wetland Inventory of Iowa	Department of Natural Resources			
US	Topographic Map	Current USGS 7.5 Minute Topographic Map	U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

### STREET AND ADDRESS INFORMATION

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

STANWOOD  
211 BROADWAY STREET  
STANWOOD, IA 52337

### **TARGET PROPERTY COORDINATES**

Latitude (North):	41.892616 - 41° 53' 33.42"
Longitude (West):	91.150034 - 91° 9' 0.12"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	653474.2
UTM Y (Meters):	4639295.0
Elevation:	841 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	5944142 STANWOOD, IA
Version Date:	2013

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).

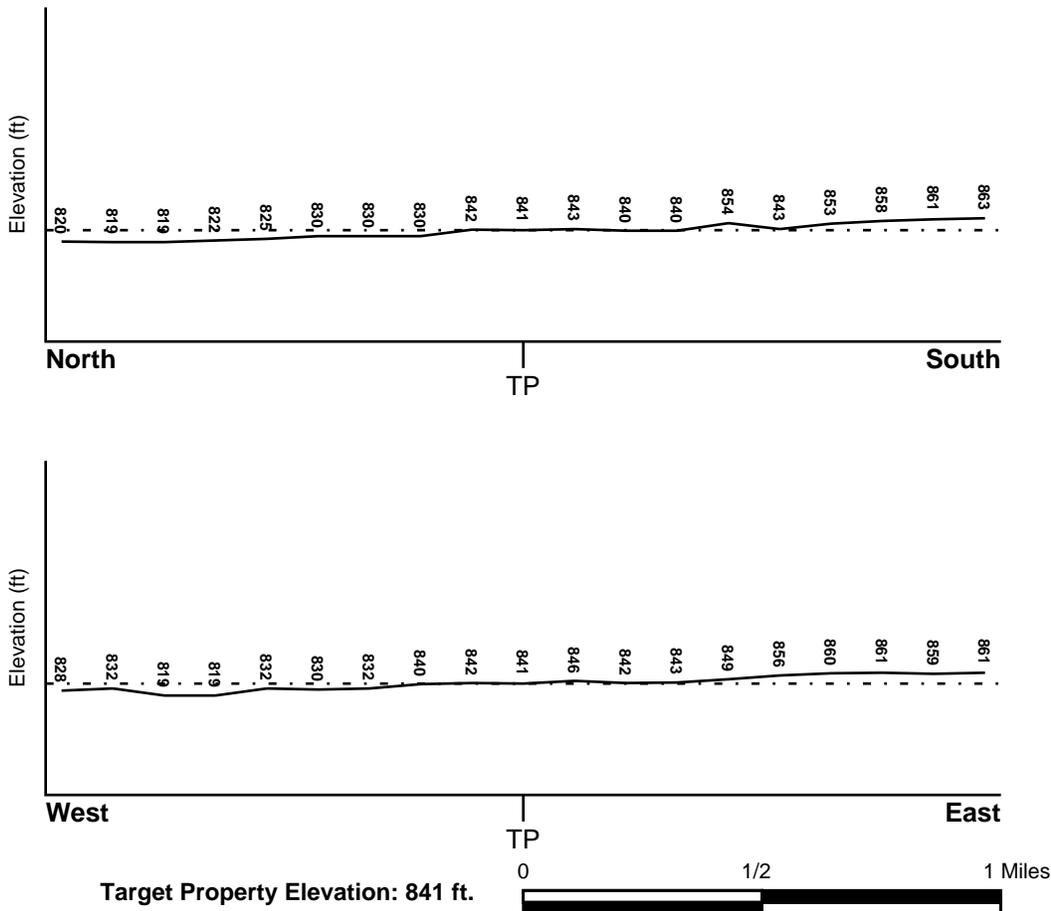
## TOPOGRAPHIC INFORMATION

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>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
19105C0350E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
STANWOOD	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**

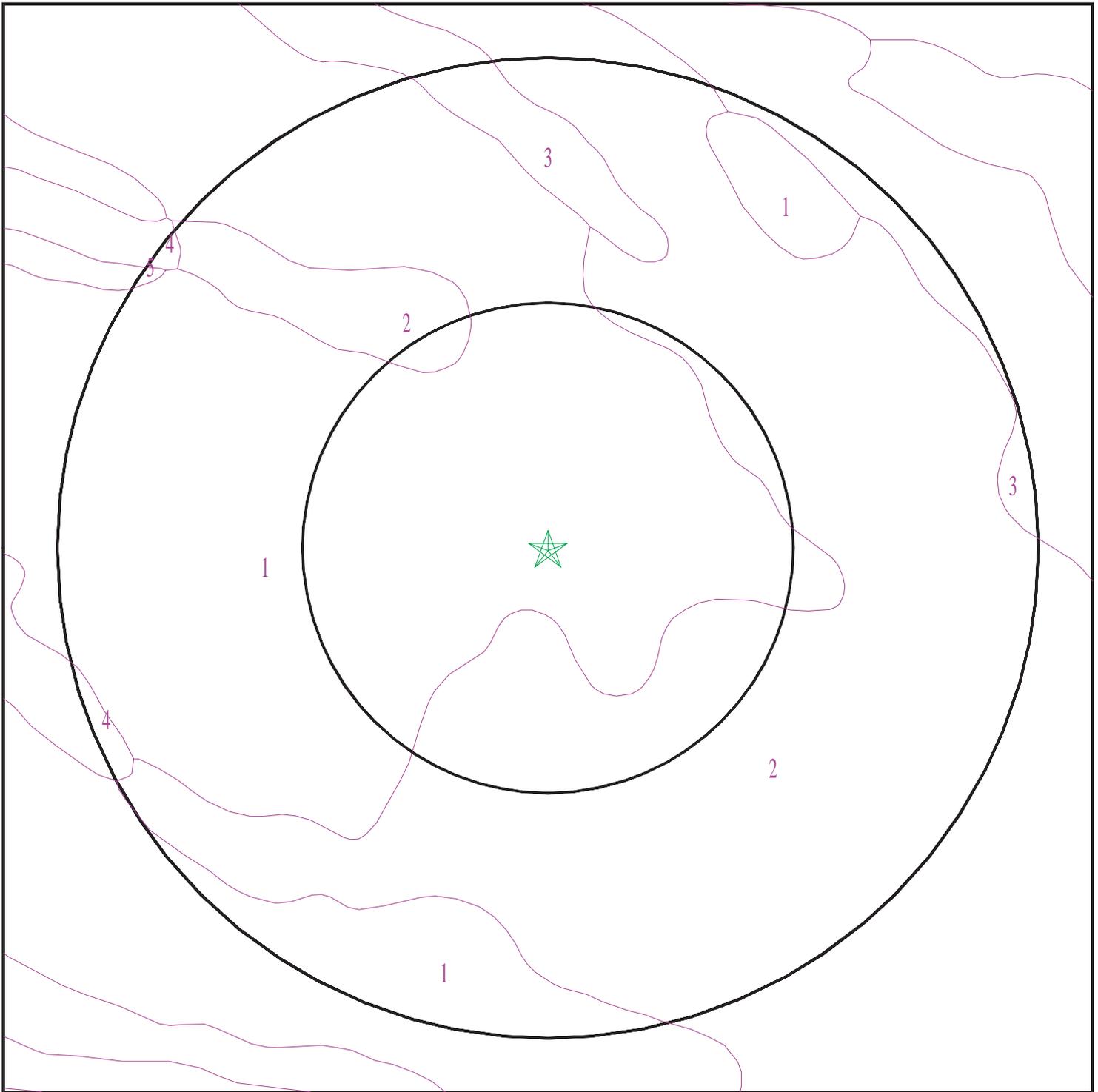
Era:	Paleozoic
System:	Silurian
Series:	Middle Silurian (Niagoaran)
Code:	S2 <i>(decoded above as Era, System &amp; Series)</i>

#### **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 - 6406033.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Stanwood  
ADDRESS: 211 Broadway Street  
Stanwood IA 52337  
LAT/LONG: 41.892616 / 91.150034

CLIENT: Terracon  
CONTACT: Josh Cox  
INQUIRY #: 6406033.2s  
DATE: March 15, 2021 3:26 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: Tama

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: Moderate

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	12 inches	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: 5.6
2	12 inches	44 inches	silty clay 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: 5.6
3	44 inches	59 inches	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: 5.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Muscatine

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: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 30 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	7 inches	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: 7.8 Min: 6.6
2	7 inches	48 inches	silty clay 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: 7.8 Min: 6.6
3	48 inches	59 inches	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: 7.8 Min: 6.6

### Soil Map ID: 3

Soil Component Name: Garwin

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

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	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.8 Min: 6.6
2	14 inches	38 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.8 Min: 6.6
3	38 inches	59 inches	silt 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: 6.6

### Soil Map ID: 4

Soil Component Name: Colo

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

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	33 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	33 inches	42 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
3	42 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1

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### Soil Map ID: 5

Soil Component Name: Tama

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: Moderate

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	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 Soils.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	7 inches	12 inches	silty clay 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 Soils.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	12 inches	44 inches	silty clay 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 Soils.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
4	44 inches	59 inches	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 Soils.	Max: 14 Min: 4	Max: 7.3 Min: 5.6

### 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
A6	USGS40000315863	0 - 1/8 Mile NE
B9	USGS40000315862	1/8 - 1/4 Mile ENE
D15	USGS40000315853	1/8 - 1/4 Mile SSW
D18	USGS40000315852	1/8 - 1/4 Mile SSW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	IA1681092	0 - 1/8 Mile NW

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

## STATE DATABASE WELL INFORMATION

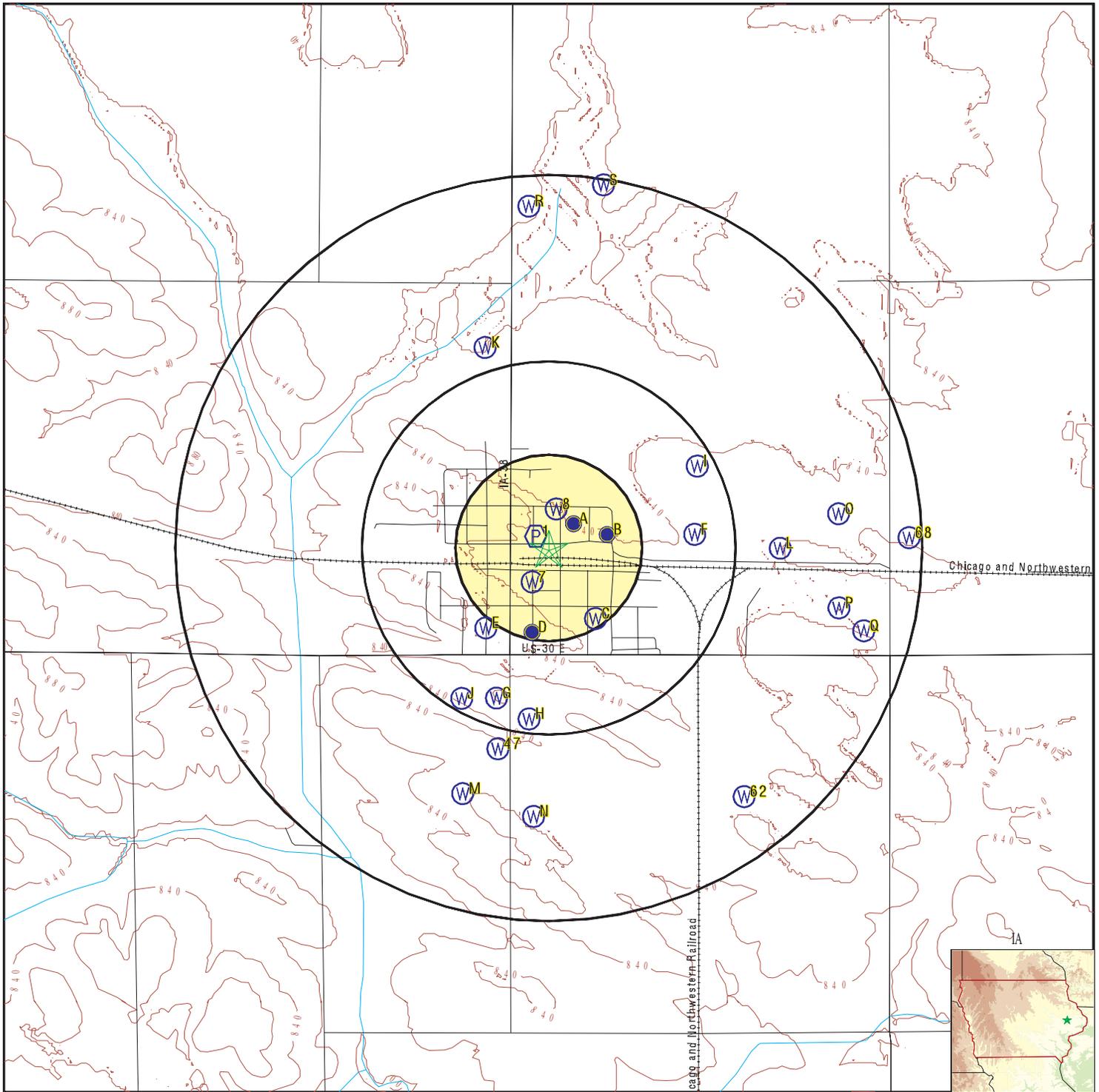
MAP ID	WELL ID	LOCATION FROM TP
A2	IAPU40000075789	0 - 1/8 Mile NE
A3	IAUS30000000268	0 - 1/8 Mile NE
A4	IAPU40000352680	0 - 1/8 Mile NE
A5	IAPU40000075787	0 - 1/8 Mile NE
7	IAPU40000075786	0 - 1/8 Mile SSW
8	IAUS30000001118	0 - 1/8 Mile North
B10	IAUS30000001075	1/8 - 1/4 Mile ENE
B11	IAPU40000075792	1/8 - 1/4 Mile ENE
B12	IAPU40000352682	1/8 - 1/4 Mile ENE
C13	IAPU40000075793	1/8 - 1/4 Mile SSE
C14	IAPU40000352683	1/8 - 1/4 Mile SSE
D16	IAPU40000189024	1/8 - 1/4 Mile South
D17	IAPW40000010993	1/8 - 1/4 Mile South
C19	IAPU40000189025	1/8 - 1/4 Mile SE
C20	IAPW40000022403	1/8 - 1/4 Mile SE
E21	IAPU40000344575	1/4 - 1/2 Mile SW
E22	IAPU40000344577	1/4 - 1/2 Mile SW
E23	IAPU40000344573	1/4 - 1/2 Mile SW
E24	IAPU40000344578	1/4 - 1/2 Mile SW
E25	IAPU40000344579	1/4 - 1/2 Mile SW
E26	IAPU40000344574	1/4 - 1/2 Mile SW
E27	IAPU40000344576	1/4 - 1/2 Mile SW
E28	IAPU40000344572	1/4 - 1/2 Mile SW
E29	IAPU40000344580	1/4 - 1/2 Mile SW
E30	IAPU40000344569	1/4 - 1/2 Mile SW
E31	IAPU40000344570	1/4 - 1/2 Mile SW
E32	IAPU40000344571	1/4 - 1/2 Mile SW
F33	IAPW40000080802	1/4 - 1/2 Mile East
F34	IAPU40000170608	1/4 - 1/2 Mile East
G35	IAPU40000075788	1/4 - 1/2 Mile SSW
G36	IAPW40000030745	1/4 - 1/2 Mile SSW
H37	IAPU40000075791	1/4 - 1/2 Mile South
I38	IAPU40000336866	1/4 - 1/2 Mile ENE

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I39	IAPU40000336865	1/4 - 1/2 Mile ENE
I40	IAPU40000336867	1/4 - 1/2 Mile ENE
J41	IAPU40000296720	1/4 - 1/2 Mile SSW
J42	IAPR40000003628	1/4 - 1/2 Mile SSW
J43	IAPR40000004475	1/4 - 1/2 Mile SSW
J44	IAPU40000296721	1/4 - 1/2 Mile SSW
H45	IAPU40000344582	1/4 - 1/2 Mile South
H46	IAPU40000344581	1/4 - 1/2 Mile South
47	IAPU40000170517	1/2 - 1 Mile SSW
K48	IAPU40000336770	1/2 - 1 Mile NNW
K49	IAPU40000336771	1/2 - 1 Mile NNW
L50	IAPW40000060349	1/2 - 1 Mile East
L51	IAPU40000170666	1/2 - 1 Mile East
M52	IAPR40000003632	1/2 - 1 Mile SSW
M53	IAPU40000285390	1/2 - 1 Mile SSW
N54	IAPU40000285434	1/2 - 1 Mile South
N55	IAPR40000041530	1/2 - 1 Mile South
O56	IAPU40000285489	1/2 - 1 Mile East
O57	IAPR40000015017	1/2 - 1 Mile East
P58	IAPU40000285501	1/2 - 1 Mile ESE
P59	IAPR40000004218	1/2 - 1 Mile ESE
P60	IAPR40000005643	1/2 - 1 Mile ESE
P61	IAPU40000285505	1/2 - 1 Mile ESE
62	IAPU40000208032	1/2 - 1 Mile SE
Q63	IAPU40000336937	1/2 - 1 Mile ESE
Q64	IAPU40000336940	1/2 - 1 Mile ESE
R65	IAPR40000064074	1/2 - 1 Mile North
R66	IAPU40000285317	1/2 - 1 Mile North
R67	IAPU40000058635	1/2 - 1 Mile North
68	IAPU40000058892	1/2 - 1 Mile East
S69	IAPU40000285337	1/2 - 1 Mile North
S70	IAPR40000032973	1/2 - 1 Mile North

# PHYSICAL SETTING SOURCE MAP - 6406033.2s



- 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
- Oil, gas or related wells

SITE NAME: Stanwood  
 ADDRESS: 211 Broadway Street  
 Stanwood IA 52337  
 LAT/LONG: 41.892616 / 91.150034

CLIENT: Terracon  
 CONTACT: Josh Cox  
 INQUIRY #: 6406033.2s  
 DATE: March 15, 2021 3:25 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**  
**NW**  
**0 - 1/8 Mile**  
**Higher**

**FRDS PWS      IA1681092**

Epa region:	07	State:	IA
Pwsid:	IA1681092	Pwsname:	STANWOOD WATER SUPPLY
Cityserved:	Not Reported	Stateserved:	IA
Ziperved:	Not Reported	Fipscounty:	19031
Status:	Active	Retpopsrvd:	684
Pwssvconn:	300	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	STANWOOD WATER SUPPLY	Contactorgname:	STANWOOD WATER SUPPLY
Contactphone:	563-212-8722	Contactaddress1:	ATTN STEVE IHNS PUBLIC WORKS DIR
Contactaddress2:	CITY HALL PO BOX 146	Contactcity:	STANWOOD
Contactstate:	IA	Contactzip:	52337
Pwsactivitycode:	A		
Pwsid:	IA1681092	Facid:	16825
Facname:	PLANT #1	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	corrosion control
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	16825
Facname:	PLANT #1	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	corrosion control
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	16825
Facname:	PLANT #1	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	16825
Facname:	PLANT #1	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	16825
Facname:	PLANT #1	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	16825
Facname:	PLANT #1	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	IA1681092	Facid:	30775
Facname:	PLANT #2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	30775
Facname:	PLANT #2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	30775
Facname:	PLANT #2	Factype:	Treatment_plant

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facactivitycode:	A	Trtobjective:	other
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	30775
Facname:	PLANT #2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	IA1681092	Facid:	30775
Facname:	PLANT #2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	corrosion control
Trtprocess:	innovative	Factypecode:	TP
Pwsid:	IA1681092	Facid:	30775
Facname:	PLANT #2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	corrosion control
Trtprocess:	innovative	Factypecode:	TP
PWS ID:	IA1681092	PWS name:	STANWOOD WATER SUPPLY
Address:	PO BOX 37, CITY HALL	Care of:	ATTN WATER SUPERINTENDENT
City:	STANWOOD	State:	IA
Zip:	52337	Owner:	STANWOOD WATER SUPPLY
Source code:	Ground water	Population:	646
PWS ID:	IA1681092	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	STANWOOD WATER SUPPLY
PWS type code:	C	Retail population served:	680
Contact:	STANWOOD WATER SUPPLY	Contact address:	ATTN STEVE IHNS PUBLIC WORKS DIR
Contact address:	CITY HALL PO BOX 146	Contact city:	STANWOOD
Contact state:	IA	Contact zip:	52337
Contact telephone:	563-942-3585		
PWS ID:	IA1681092	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000646	System name:	STANWOOD WATER SUPPLY
System address:	ATTN: WATER SUPERINTENDENT	System city:	STANWOOD
System address:	P.O. BOX 146, CITY HALL	System zip:	52337
System state:	IA		
Population served:	501 - 1,000 Persons	Treatment:	Treated
Latitude:	415335	Longitude:	0910902
Violation id:	69013	Orig code:	S
State:	IA	Violation Year:	2012
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2012
Cmp edt:	12/31/2012		
Violation id:	79409	Orig code:	S
State:	IA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	11/01/2008
Cmp edt:	11/30/2008		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9400360	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	GROSS ALPHA, EXCL. RADON & U
Violation type:	Monitoring, Regular	Violation start date:	100189
Violation end date:	093093	Violation period (months):	048
Violation awareness date:	Not Reported	Major violator:	Yes
Maximum contaminant level:	Not Reported	Number of required samples:	000
Number of samples taken:	000	Analysis method:	Not Reported
Analysis result:	Not Reported		
Violation ID:	69013	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	02/19/2013
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	69013	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	01/16/2013
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	69013	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	01/07/2013
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	69013	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	01/16/2013
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	79409	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	12/23/2008
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	79409	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	12/23/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	79409	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	12/15/2008
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	79409	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	01/09/2009
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
PWS name:	STANWOOD WATER SUPPLY	Population served:	680
PWS type code:	C	Violation ID:	79409
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	11/1/2008 0:00:00	Compliance end date:	11/30/2008 0:00:00
Enforcement date:	1/9/2009 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		
PWS name:	STANWOOD WATER SUPPLY	Population served:	680
PWS type code:	C	Violation ID:	79409
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	11/1/2008 0:00:00	Compliance end date:	11/30/2008 0:00:00
Enforcement date:	12/15/2008 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	STANWOOD WATER SUPPLY	Population served:	680
PWS type code:	C	Violation ID:	79409
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	11/1/2008 0:00:00	Compliance end date:	11/30/2008 0:00:00
Enforcement date:	12/23/2008 0:00:00	Enforcement action:	State Formal NOV Issued

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measurement:	Not Reported		
PWS name:	STANWOOD WATER SUPPLY	Population served:	680
PWS type code:	C	Violation ID:	79409
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	11/1/2008 0:00:00	Compliance end date:	11/30/2008 0:00:00
Enforcement date:	12/23/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

**A2  
NE  
0 - 1/8 Mile  
Higher**

**IA WELLS      IAPU40000075789**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	42588	Well Type:	IGS well database
Well Depth:	221	Construction/Permit Date:	1/1/1914
Notes:	Bedrock depth: 0; Well type: Municipal		

**A3  
NE  
0 - 1/8 Mile  
Lower**

**IA WELLS      I AUS3000000268**

Database:	Water Use Permits	IEFD Location ID:	20000316860
Facility ID:	310390599	Program ID:	5235
Facility Name:	Stanwood Water Supply	Operating Status:	Drilled
Well ID:	W285	Well Location ID:	8980
Well Name:	Not Reported	Well Depth:	375
Construction Date:	Not Reported	Aquifer Type:	Silurian
Aquifer Rank:	Primary	Field Office #:	6
Coordinate Method:	GPS CODE (PSEUDO RANGE) STANDARD POSITION (SA OFF)		
Coordinate Reference:	WELL	Coordinate Verification:	Not Reported
HUC #:	070802060401		
URL:	<a href="http://programs.iowadnr.gov/wateruse/">http://programs.iowadnr.gov/wateruse/</a>		

**A4  
NE  
0 - 1/8 Mile  
Lower**

**IA WELLS      IAPU40000352680**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2407979	Well Type:	Public Water Supply well
Well Depth:	303	Construction/Permit Date:	1/1/1946
Notes:	PWSID: 1681092; Permit Status: Acitve		

**A5  
NE  
0 - 1/8 Mile  
Lower**

**IA WELLS      IAPU40000075787**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2288	Well Type:	IGS well database
Well Depth:	303	Construction/Permit Date:	1/1/1946
Notes:	Bedrock depth: 250; Well type: Municipal, Public Supply		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A6**  
**NE**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS40000315863**

Organization ID:	USGS-IA	Organization Name:	USGS Iowa Water Science Center
Monitor Location:	0820W24CAB 02288 1946Stanwood 1		
Type:	Well	Description:	1681092-01
HUC:	07080206	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Niagaran Series	Aquifer Type:	Not Reported
Construction Date:	194604	Well Depth:	303
Well Depth Units:	ft	Well Hole Depth:	303
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1946-04
Feet below surface:	13.5	Feet to sea level:	Not Reported
Note:	Not Reported		

**7**  
**SSW**  
**0 - 1/8 Mile**  
**Higher**

**IA WELLS      IAPU40000075786**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	237	Well Type:	IGS well database
Well Depth:	121	Construction/Permit Date:	unkn
Notes:	Bedrock depth: 0; Well type: Commercial		

**8**  
**North**  
**0 - 1/8 Mile**  
**Higher**

**IA WELLS      IAUS30000001118**

Database:	Water Use Permits	IEFD Location ID:	20000316861
Facility ID:	310390599	Program ID:	5235
Facility Name:	Stanwood Water Supply	Operating Status:	Drilled
Well ID:	W602	Well Location ID:	8982
Well Name:	Not Reported	Well Depth:	375
Construction Date:	Not Reported	Aquifer Type:	Silurian
Aquifer Rank:	Primary	Field Office #:	6
Coordinate Method:	PUBLIC LAND SURVEY - SIXTEENTH SECTION		
Coordinate Reference:	CENTER OF FACILITY	Coordinate Verification:	Not Reported
HUC #:	070802060401		
URL:	<a href="http://programs.iowadnr.gov/wateruse/">http://programs.iowadnr.gov/wateruse/</a>		

**B9**  
**ENE**  
**1/8 - 1/4 Mile**  
**Higher**

**FED USGS      USGS40000315862**

Organization ID:	USGS-IA	Organization Name:	USGS Iowa Water Science Center
Monitor Location:	082N03W24CBDD 25522 1979Stanwood 2 New		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Type:	Well	Description:	1681092-02
HUC:	07080206	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Hopkinton Dolomite	Aquifer Type:	Not Reported
Construction Date:	197909	Well Depth:	465
Well Depth Units:	ft	Well Hole Depth:	465
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1979-09
Feet below surface:	42	Feet to sea level:	Not Reported
Note:	Not Reported		

**B10**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS      IAUS30000001075**

Database:	Water Use Permits	IEFD Location ID:	20000316859
Facility ID:	310390599	Program ID:	5235
Facility Name:	Stanwood Water Supply	Operating Status:	Drilled
Well ID:	W399	Well Location ID:	8981
Well Name:	Not Reported	Well Depth:	375
Construction Date:	Not Reported	Aquifer Type:	Silurian
Aquifer Rank:	Primary	Field Office #:	6
Coordinate Method:	GPS CODE (PSEUDO RANGE) STANDARD POSITION (SA OFF)		
Coordinate Reference:	WELL	Coordinate Verification:	Not Reported
HUC #:	070802060401		
URL:	<a href="http://programs.iowadnr.gov/wateruse/">http://programs.iowadnr.gov/wateruse/</a>		

**B11**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS      IAPU40000075792**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	25522	Well Type:	IGS well database
Well Depth:	465	Construction/Permit Date:	1/1/1979
Notes:	Bedrock depth: 0; Well type: Municipal, Public Supply		

**B12**  
**ENE**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS      IAPU40000352682**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2408646	Well Type:	Public Water Supply well
Well Depth:	465	Construction/Permit Date:	1/1/1979
Notes:	PWSID: 1681092; Permit Status: Acitve		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C13**  
**SSE**  
**1/8 - 1/4 Mile**  
**Higher**

**IA WELLS      IAPU40000075793**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	65181	Well Type:	IGS well database
Well Depth:	380	Construction/Permit Date:	7/1/2008
Notes:	Bedrock depth: 322; Well type: Public Supply		

**C14**  
**SSE**  
**1/8 - 1/4 Mile**  
**Higher**

**IA WELLS      IAPU40000352683**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2586741	Well Type:	Public Water Supply well
Well Depth:	380	Construction/Permit Date:	unkn
Notes:	PWSID: 1681092; Permit Status: Acitve		

**D15**  
**SSW**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000315853**

Organization ID:	USGS-IA	Organization Name:	USGS Iowa Water Science Center
Monitor Location:	082N03W24CCB 00237	Type:	Well
Description:	Not Reported	HUC:	07080206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Pleistocene Series
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	116	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**D16**  
**South**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS      IAPU40000189024**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2088525	Well Type:	Private well tracking system
Well Depth:	32	Construction/Permit Date:	5/12/1947
Notes:	Status: Plugged		

**D17**  
**South**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS      IAPW40000010993**

Database:	Private Well Tracking System Wells		
PWTS Well #:	2088525	Permit #:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Tier #:	82	Range #:	3
Elevation:	0	Elevation Accuracy:	Not Reported
Total Well Depth:	32	Bedrock Depth:	0
Depth to Water:	0	Well Finished:	12-MAY-47
Driller:	Not Reported	Construction Method:	Rotary Drill
Remarks:	Not Reported	Well Use:	Household
Well Status:	Plugged	Heat Pump Wells:	0
Permitted Private Well:	Not Reported	Abandoned Well:	X
Renovated Well:	Not Reported	Registered for Tests:	Not Reported

**D18**  
**SSW**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000315852**

Organization ID:	USGS-IA	Organization Name:	USGS Iowa Water Science Center
Monitor Location:	082N03W24CC      1914Stanwood 1 Old		
Type:	Well		
Description:	Reconditioned in 1939; filled in 1952.		
HUC:	07080206	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Not Reported
Formation Type:	Nebraskan Glacial Deposits		
Aquifer Type:	Not Reported	Construction Date:	1914
Well Depth:	221	Well Depth Units:	ft
Well Hole Depth:	221	Well Hole Depth Units:	ft
Ground water levels, Number of Measurements:	1	Level reading date:	1941
Feet below surface:	42	Feet to sea level:	Not Reported
Note:	Not Reported		

**C19**  
**SE**  
**1/8 - 1/4 Mile**  
**Higher**

**IA WELLS      IAPU40000189025**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2093644	Well Type:	Private well tracking system
Well Depth:	160	Construction/Permit Date:	5/28/1954
Notes:	Status: Plugged		

**C20**  
**SE**  
**1/8 - 1/4 Mile**  
**Higher**

**IA WELLS      IAPW40000022403**

Database:	Private Well Tracking System Wells		
PWTS Well #:	2093644	Permit #:	Not Reported
Tier #:	82	Range #:	3
Elevation:	0	Elevation Accuracy:	Not Reported
Total Well Depth:	160	Bedrock Depth:	0
Depth to Water:	0	Well Finished:	28-MAY-54
Driller:	Not Reported	Construction Method:	Cable Tool Drill -Driven
Remarks:	Not Reported	Well Use:	Household
Well Status:	Plugged	Heat Pump Wells:	0
Permitted Private Well:	Not Reported	Abandoned Well:	X

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Renovated Well: Not Reported      Registered for Tests: Not Reported

**E21  
SW  
1/4 - 1/2 Mile  
Lower**

**IA WELLS      IAPU40000344575**

Database: All Known Water Wells in the State of Iowa  
 Well ID: 43973      Well Type: Registered abandoned wells  
 Well Depth: 10      Construction/Permit Date: n.a.  
 Notes: Well plugged: 9/26/2000; Well type: < 18" dia.

**E22  
SW  
1/4 - 1/2 Mile  
Lower**

**IA WELLS      IAPU40000344577**

Database: All Known Water Wells in the State of Iowa  
 Well ID: 43978      Well Type: Registered abandoned wells  
 Well Depth: 10      Construction/Permit Date: n.a.  
 Notes: Well plugged: 9/26/2000; Well type: < 18" dia.

**E23  
SW  
1/4 - 1/2 Mile  
Lower**

**IA WELLS      IAPU40000344573**

Database: All Known Water Wells in the State of Iowa  
 Well ID: 43980      Well Type: Registered abandoned wells  
 Well Depth: 10      Construction/Permit Date: n.a.  
 Notes: Well plugged: 9/26/2000; Well type: < 18" dia.

**E24  
SW  
1/4 - 1/2 Mile  
Lower**

**IA WELLS      IAPU40000344578**

Database: All Known Water Wells in the State of Iowa  
 Well ID: 43975      Well Type: Registered abandoned wells  
 Well Depth: 10      Construction/Permit Date: n.a.  
 Notes: Well plugged: 9/26/2000; Well type: < 18" dia.

**E25  
SW  
1/4 - 1/2 Mile  
Lower**

**IA WELLS      IAPU40000344579**

Database: All Known Water Wells in the State of Iowa  
 Well ID: 43977      Well Type: Registered abandoned wells  
 Well Depth: 10      Construction/Permit Date: n.a.  
 Notes: Well plugged: 9/26/2000; Well type: < 18" dia.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E26**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**IA WELLS      IAPU40000344574**

Database:                      All Known Water Wells in the State of Iowa  
Well ID:                              43974                      Well Type:                      Registered abandoned wells  
Well Depth:                              10                      Construction/Permit Date:                      n.a.  
Notes:                      Well plugged: 9/26/2000; Well type: < 18" dia.

**E27**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**IA WELLS      IAPU40000344576**

Database:                      All Known Water Wells in the State of Iowa  
Well ID:                              43976                      Well Type:                      Registered abandoned wells  
Well Depth:                              10                      Construction/Permit Date:                      n.a.  
Notes:                      Well plugged: 9/26/2000; Well type: < 18" dia.

**E28**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**IA WELLS      IAPU40000344572**

Database:                      All Known Water Wells in the State of Iowa  
Well ID:                              43979                      Well Type:                      Registered abandoned wells  
Well Depth:                              15                      Construction/Permit Date:                      n.a.  
Notes:                      Well plugged: 9/26/2000; Well type: < 18" dia.

**E29**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**IA WELLS      IAPU40000344580**

Database:                      All Known Water Wells in the State of Iowa  
Well ID:                              43972                      Well Type:                      Registered abandoned wells  
Well Depth:                              10                      Construction/Permit Date:                      n.a.  
Notes:                      Well plugged: 9/26/2000; Well type: < 18" dia.

**E30**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**IA WELLS      IAPU40000344569**

Database:                      All Known Water Wells in the State of Iowa  
Well ID:                              43981                      Well Type:                      Registered abandoned wells  
Well Depth:                              16                      Construction/Permit Date:                      n.a.  
Notes:                      Well plugged: 9/26/2000; Well type: < 18" dia.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E31**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**IA WELLS      IAPU40000344570**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	43982	Well Type:	Registered abandoned wells
Well Depth:	14	Construction/Permit Date:	n.a.
Notes:	Well plugged: 9/26/2000; Well type: < 18" dia.		

**E32**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**IA WELLS      IAPU40000344571**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	43983	Well Type:	Registered abandoned wells
Well Depth:	15	Construction/Permit Date:	n.a.
Notes:	Well plugged: 9/26/2000; Well type: < 18" dia.		

**F33**  
**East**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPW40000080802**

Database:	Private Well Tracking System Wells		
PWTS Well #:	2139496	Permit #:	Not Reported
Tier #:	82	Range #:	3
Elevation:	0	Elevation Accuracy:	Not Reported
Total Well Depth:	250	Bedrock Depth:	0
Depth to Water:	0	Well Finished:	01-JAN-50
Driller:	Not Reported	Construction Method:	Rotary Drill
Remarks:	Not Reported	Well Use:	Household
Well Status:	Active	Heat Pump Wells:	0
Permitted Private Well:	Not Reported	Abandoned Well:	Not Reported
Renovated Well:	X	Registered for Tests:	X

**F34**  
**East**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000170608**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2139496	Well Type:	Private well tracking system
Well Depth:	250	Construction/Permit Date:	1/1/1950
Notes:	Status: Active		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**G35**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000075788**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	55674	Well Type:	IGS well database
Well Depth:	196	Construction/Permit Date:	10/16/2001
Notes:	Bedrock depth: 187; Well type: Private		

**G36**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPW40000030745**

Database:	Private Well Tracking System Wells		
PWTS Well #:	2105116	Permit #:	Not Reported
Tier #:	82	Range #:	3
Elevation:	0	Elevation Accuracy:	Not Reported
Total Well Depth:	196	Bedrock Depth:	0
Depth to Water:	0	Well Finished:	16-OCT-01
Driller:	Greiner Well Service, Inc.		
Construction Method:	Rotary Drill	Remarks:	Not Reported
Well Use:	Household	Well Status:	Active
Heat Pump Wells:	0	Permitted Private Well:	Not Reported
Abandoned Well:	Not Reported	Renovated Well:	Not Reported
Registered for Tests:	X		

**H37**  
**South**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000075791**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	22642	Well Type:	IGS well database
Well Depth:	314	Construction/Permit Date:	9/30/1969
Notes:	Bedrock depth: 234; Well type: Test (water only)		

**I38**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000336866**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	1217	Well Type:	Registered abandoned wells
Well Depth:	87	Construction/Permit Date:	n.a.
Notes:	Well plugged: 9/8/1989; Well type: unkn		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**I39**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000336865**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	996	Well Type:	Registered abandoned wells
Well Depth:	unkn	Construction/Permit Date:	n.a.
Notes:	Well plugged: nil; Well type: < 18" dia.		

**I40**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000336867**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	608	Well Type:	Registered abandoned wells
Well Depth:	unkn	Construction/Permit Date:	n.a.
Notes:	Well plugged: nil; Well type: < 18" dia.		

**J41**  
**SSW**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000296720**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	3629	Well Type:	Wells registered for testing
Well Depth:	unkn	Construction/Permit Date:	unkn
Notes:	Drilling method: Drilled; Well depth is uncertain		

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

**IA WELLS      IAPR40000003628**

Database:	Private Wells Tested	Well Depth:	0
Depth Reliability:	U	Private Permit #:	Not Reported
Sample Date:	28-SEP-92	Analysis Date:	29-SEP-92
Sampling Location:	HYDRANT NEAR WELL	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	2.2	Bacteria Remarks:	<
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	K	Casing Material:	STEEL
Material Accuracy:	K	Casing Diameter:	0
Diameter Accuracy:	U	Year Constructed:	0
Year Accuracy:	U	Agent:	PHIL LARUE

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

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

**IA WELLS      IAPR4000004475**

Database:	Private Wells Tested	Well Depth:	250
Depth Reliability:	K	Private Permit #:	Not Reported
Sample Date:	18-FEB-93	Analysis Date:	19-FEB-93
Sampling Location:	WELL PUMP	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	2.2	Bacteria Remarks:	<
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	K	Casing Material:	STEEL
Material Accuracy:	K	Casing Diameter:	5
Diameter Accuracy:	K	Year Constructed:	1955
Year Accuracy:	K	Agent:	PHIL LARUE

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

**IA WELLS      IAPU40000296721**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	4476	Well Type:	Wells registered for testing
Well Depth:	250	Construction/Permit Date:	1955
Notes:	Drilling method: Drilled; Known well depth		

**H45**  
**South**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000344582**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	5733	Well Type:	Registered abandoned wells
Well Depth:	78	Construction/Permit Date:	n.a.
Notes:	Well plugged: 5/12/1992; Well type: < 18" dia.		

**H46**  
**South**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS      IAPU40000344581**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	14554	Well Type:	Registered abandoned wells
Well Depth:	78	Construction/Permit Date:	n.a.
Notes:	Well plugged: 5/12/1992; Well type: < 18" dia.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**47**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000170517**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2105116	Well Type:	Private well tracking system
Well Depth:	196	Construction/Permit Date:	10/16/2001
Notes:	Status: Active		

**K48**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS      IAPU40000336770**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	5732	Well Type:	Registered abandoned wells
Well Depth:	92	Construction/Permit Date:	n.a.
Notes:	Well plugged: 5/11/1992; Well type: < 18" dia.		

**K49**  
**NNW**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS      IAPU40000336771**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	14555	Well Type:	Registered abandoned wells
Well Depth:	92	Construction/Permit Date:	n.a.
Notes:	Well plugged: 5/11/1992; Well type: < 18" dia.		

**L50**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPW40000060349**

Database:	Private Well Tracking System Wells		
PWTS Well #:	2145032	Permit #:	Not Reported
Tier #:	82	Range #:	3
Elevation:	0	Elevation Accuracy:	Not Reported
Total Well Depth:	100	Bedrock Depth:	0
Depth to Water:	0	Well Finished:	01-JAN-50
Driller:	Not Reported	Construction Method:	Rotary Drill
Remarks:	Not Reported	Well Use:	Household, Livestock
Well Status:	Active	Heat Pump Wells:	0
Permitted Private Well:	Not Reported	Abandoned Well:	Not Reported
Renovated Well:	Not Reported	Registered for Tests:	X

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**L51**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000170666**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2145032	Well Type:	Private well tracking system
Well Depth:	100	Construction/Permit Date:	1/1/1950
Notes:	Status: Active		

**M52**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPR40000003632**

Database:	Private Wells Tested	Well Depth:	40
Depth Reliability:	E	Private Permit #:	Not Reported
Sample Date:	31-AUG-92	Analysis Date:	01-SEP-92
Sampling Location:	SINK	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	2.2	Bacteria Remarks:	<
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	E	Casing Material:	STEEL
Material Accuracy:	K	Casing Diameter:	8
Diameter Accuracy:	E	Year Constructed:	0
Year Accuracy:	U	Agent:	PHIL LARUE

**M53**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000285390**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	3633	Well Type:	Wells registered for testing
Well Depth:	40	Construction/Permit Date:	unkn
Notes:	Drilling method: Drilled; Estimated well depth		

**N54**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000285434**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	41531	Well Type:	Wells registered for testing
Well Depth:	120	Construction/Permit Date:	1955
Notes:	Drilling method: Drilled; Known well depth		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**N55**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPR40000041530**

Database:	Private Wells Tested	Well Depth:	120
Depth Reliability:	K	Private Permit #:	Not Reported
Sample Date:	02-DEC-97	Analysis Date:	Not Reported
Sampling Location:	Not Reported	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	0	Bacteria Remarks:	Not Reported
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	Not Reported	Casing Material:	STEEL
Material Accuracy:	Not Reported	Casing Diameter:	6
Diameter Accuracy:	K	Year Constructed:	1955
Year Accuracy:	E	Agent:	Not Reported

**O56**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000285489**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	15018	Well Type:	Wells registered for testing
Well Depth:	unkn	Construction/Permit Date:	unkn
Notes:	Drilling method: Drilled; Well depth is uncertain		

**O57**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPR40000015017**

Database:	Private Wells Tested	Well Depth:	0
Depth Reliability:	U	Private Permit #:	Not Reported
Sample Date:	27-DEC-95	Analysis Date:	Not Reported
Sampling Location:	Not Reported	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	0	Bacteria Remarks:	ND
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	Drilled
Method Accuracy:	Not Reported	Casing Material:	Steel
Material Accuracy:	Not Reported	Casing Diameter:	5
Diameter Accuracy:	Not Reported	Year Constructed:	0
Year Accuracy:	U	Agent:	Not Reported

**P58**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000285501**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	4219	Well Type:	Wells registered for testing
Well Depth:	200	Construction/Permit Date:	1987
Notes:	Drilling method: Drilled; Known well depth		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**P59**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPR4000004218**

Database:	Private Wells Tested	Well Depth:	200
Depth Reliability:	K	Private Permit #:	Not Reported
Sample Date:	27-APR-93	Analysis Date:	28-APR-93
Sampling Location:	SINK	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	2.2	Bacteria Remarks:	<
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	K	Casing Material:	PLASTIC
Material Accuracy:	K	Casing Diameter:	5
Diameter Accuracy:	K	Year Constructed:	1987
Year Accuracy:	K	Agent:	PHIL LARUE

**P60**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPR40000005643**

Database:	Private Wells Tested	Well Depth:	420
Depth Reliability:	K	Private Permit #:	Not Reported
Sample Date:	14-JAN-91	Analysis Date:	Not Reported
Sampling Location:	FAUCET IN WELL HOUSE	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	0	Bacteria Remarks:	ND
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	K	Casing Material:	STEEL
Material Accuracy:	K	Casing Diameter:	8
Diameter Accuracy:	K	Year Constructed:	1990
Year Accuracy:	K	Agent:	MARC GREENLEE

**P61**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000285505**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	5644	Well Type:	Wells registered for testing
Well Depth:	420	Construction/Permit Date:	1990
Notes:	Drilling method: Drilled; Known well depth		

**62**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000208032**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	20250	Well Type:	Permitted private wells
Well Depth:	unkn	Construction/Permit Date:	4/16/1991
Notes:	Primary use: Domestic/household		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**Q63**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000336937**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	839	Well Type:	Registered abandoned wells
Well Depth:	88	Construction/Permit Date:	n.a.
Notes:	Well plugged: 4/19/1989; Well type: < 18" dia.		

**Q64**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000336940**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	1029	Well Type:	Registered abandoned wells
Well Depth:	88	Construction/Permit Date:	n.a.
Notes:	Well plugged: 4/19/1989; Well type: < 18" dia.		

**R65**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS      IAPR4000064074**

Database:	Private Wells Tested	Well Depth:	0
Depth Reliability:	U	Private Permit #:	Not Reported
Sample Date:	28-FEB-00	Analysis Date:	02-MAR-00
Sampling Location:	KITCHEN FAUCET	Safe/Unsafe Bacteria Level:	S
Bacteria Results:	0	Bacteria Remarks:	Not Reported
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	Not Reported	Casing Material:	STEEL
Material Accuracy:	Not Reported	Casing Diameter:	0
Diameter Accuracy:	U	Year Constructed:	0
Year Accuracy:	U	Agent:	BOB SUMMERS

**R66**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS      IAPU40000285317**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	64075	Well Type:	Wells registered for testing
Well Depth:	unkn	Construction/Permit Date:	unkn
Notes:	Drilling method: Drilled; Well depth is uncertain		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**R67**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS      IAPU40000058635**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2987	Well Type:	IGS well database
Well Depth:	169	Construction/Permit Date:	8/11/1947
Notes:	Bedrock depth: 156; Well type: Private		

**68**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000058892**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	26473	Well Type:	IGS well database
Well Depth:	365	Construction/Permit Date:	unkn
Notes:	Bedrock depth: 180; Well type: Commercial		

**S69**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS      IAPU40000285337**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	32974	Well Type:	Wells registered for testing
Well Depth:	115	Construction/Permit Date:	1945
Notes:	Drilling method: Drilled;		

**S70**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS      IAPR40000032973**

Database:	Private Wells Tested	Well Depth:	115
Depth Reliability:	Not Reported	Private Permit #:	Not Reported
Sample Date:	05-MAY-97	Analysis Date:	Not Reported
Sampling Location:	KITCHEN SINK	Safe/Unsafe Bacteria Level:	U
Bacteria Results:	0	Bacteria Remarks:	Not Reported
Safe/Unsafe Nitrate Level:	S	Nitrate Results:	1
Nitrate Remarks:	<	Construction Method:	DRILLED
Method Accuracy:	Not Reported	Casing Material:	STTEEL
Material Accuracy:	Not Reported	Casing Diameter:	5
Diameter Accuracy:	Not Reported	Year Constructed:	1945
Year Accuracy:	Not Reported	Agent:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: IA Radon

### Radon Test Results

Zipcode	Num Tests	Minimum	Maximum	Average
52337	2	1.2	6.9	4.1

Federal EPA Radon Zone for CEDAR 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.

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### Federal Area Radon Information for CEDAR COUNTY, IA

Number of sites tested: 6

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	7.933 pCi/L	17%	83%	0%

# 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.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: National Wetland Inventory of Iowa

Source: Department of Natural Resources

Telephone: 319-335-1575

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> 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 Service (NRCS)

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 Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, 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.

#### Agricultural Drainage Wells

Source: Department of Natural Resources

Telephone: 515-281-5029

Agricultural drainage wells are required to be registered both with the Iowa Department of Natural Resources as a part of the 1987 Groundwater Protection Act, and with the U.S. Environmental Protection Agency as a part of the Underground Injection Control Program.

#### Private Well Tracking System Wells

Source: Department of Natural Resources

Telephone: 319-335-1353

#### Water Use Permits

Source: Department of Natural Resources

Telephone: 515-725-0336

Wells under Water Use permits. A water use permit is required of any person or entity that withdraws or diverts at least 25,000 gallons of water in a 24-hour period during any calendar year.

#### Private Wells Tested

Source: Department of Natural Resources

Telephone: 515-335-1353

This is a point coverage for private wells which have been tested for bacteria and nitrate contamination under the Grants to Counties program.

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Source: Department of Natural Resources

Oil and gas well locations.

### RADON

#### State Database: IA Radon

Source: Department of Public Health

Telephone: 515-281-4340

Radon Test Results

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### 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 IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### **STREET AND ADDRESS INFORMATION**

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**APPENDIX E  
CREDENTIALS**

# Joshua F. Cox

## ENVIRONMENTAL SCIENTIST

### PROFESSIONAL EXPERIENCE

Mr. Cox is an environmental scientist in the Bettendorf, Iowa office. He is involved in the completion of Phase I Environmental Site Assessments (ESAs) and Limited Site Investigations (LSIs). Services include the completion of field activities, review and evaluation of field and analytical data, and final report preparation. His project experience also includes conducting removal of free product from groundwater monitoring wells as well as collecting groundwater monitoring well depth measurements, sampling, and reporting.

### PROJECT EXPERIENCE

#### Phase I Environmental Site Assessments – Iowa and Illinois

Mr. Cox has conducted Phase I ESAs on multiple sites under the provisions of ASTM E-1527-13. His services include the completion of site visits, interviews with knowledgeable parties, collection of historical documentation, review of environmental database information, evaluation of environmental conditions, and preparation of reports. The Phase I ESA sites have included commercial and manufacturing properties as well as large tracts of agricultural land.

#### Limited Site Investigations – Iowa and Illinois

Mr. Cox has conducted field investigation activities for a commercial and manufacturing buildings, and agricultural land utilizing direct-push drilling methods. He has experience collecting soil and groundwater samples impacted by various contaminants including petroleum hydrocarbons, chlorinated solvents, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated bi-phenyls (PCBs), and Resource Conservation and Recovery Act (RCRA) metals. Investigation tasks included the preparation of health and safety plans, conducting safety meetings, collection of soil and groundwater samples, preparation of soil boring logs, data interpretation and compilation, and reporting.

#### Underground Storage Tank (UST) Installation Observation – Iowa

Mr. Cox has conducted oversight of UST installation activities at a filling station in Bettendorf, Iowa. Activities included conducting safety meetings, filling oversight, oversight of UST installation by in-filling with gravel, site observation oversight, and reporting.

#### Free Product Recovery – Iowa

Mr. Cox has conducted removal of free product from groundwater monitoring wells at manufacturing sites in Iowa. Recovery tasks included free product recovery utilizing disposable balers, measuring the depth to product and depth to water using an interface probe, and managing waste onsite. Other activities included evaluation of field data and report preparation.

#### Soil Identification & Characterization – Illinois

Mr. Cox has conducted soil identification & characterization for multiple MidAmerican substations and valley construction projects. Identification & characterization tasks included field observations of soil, collection of soil samples, and managing waste onsite. Other activities included evaluation of field data and report preparation.

### EDUCATION

Bachelor of Arts, Environmental Studies  
Augustana College, May 2016

### CERTIFICATIONS

40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER), August 2019

8-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Refresher, August 2020

Mine Safety and Health Administration (MSHA), Certified Part 46/48, November 2019

Nuclear Density Gauge Safety Training, February 2019

### WORK HISTORY

Benchmark Environmental, Environmental Scientist, October 2016

Terracon Consultants, Inc., Materials Technician, June 2018

Terracon Consultants, Inc., Environmental Scientist, November 2019

# Joshua F. Cox (Continued)

## Iowa Department of Transportation (IDOT)

### **I-74 Mississippi River Bridge- Scott County, Iowa**

Mr. Cox has completed construction materials testing for the I-74 Mississippi River Bridge. The project consists of construction of dual basket handle arch bridges with main channel spans of 800 feet. Services included portland cement concrete testing and mass concrete monitoring.

# LIAM J BAYLY

## SENIOR PROJECT MANAGER

### PROFESSIONAL EXPERIENCE

Liam currently serves as the Senior Project Manager at Terracon's Bettendorf, IA office managing various environmental projects including but not limited to Phase I Environmental Site Assessments, Phase II Limited Site Investigations, subsurface investigations, remediation projects, emergency responses, Illinois Site Remediation Program projects, Iowa UST and LUST projects, and soil CCDD waste characterization projects.

Liam has over 25 years of combined experience in the environmental industry in environmental consulting and as an owner or lender representative conducting, coordinating and/or managing due diligence investigations, site characterizations, environmental remediation projects, emergency responses, UST closure/consulting, hazardous waste management, owner technical representation, and environmental permitting/compliance.

Mr. Bayly has completed projects in California, Oregon, Washington, Idaho, Iowa and Illinois, obtaining site closure with No Further Action designations in Washington, Oregon, Illinois, and Iowa.

### PROJECT EXPERIENCE

#### Phase I Environmental Site Assessments – California, Oregon, Washington, Idaho, Iowa and Illinois

Liam has coordinated, conducted and/or managed Phase I ESAs for property owners, prospective property owners, lenders, developers, public agencies, and local governments as a consultant or owner's or lender's representative throughout six states during his environmental career both prior to and under the provisions of ASTM E-1527. The Phase I ESA's were conducted on commercial office, strip retail, multifamily, light industrial, industrial, manufacturing, and large multi-million gallon petroleum oil bulk-storage properties as well as large tracts of vacant land.

#### Phase II Limited Site Investigations / Subsurface Investigations – California, Oregon, Washington, Idaho, Iowa and Illinois

During the course of his 25 year career, Liam has conducted, coordinated and/or managed Phase II Limited Site Investigations and Subsurface Investigations throughout six states for a variety of clients including oil industry, manufacturing, developers, restaurant chains, commercial office and industrial and light industrial property owners as either a consultant, or owner's / lender's representative. His projects have included sites where soil and groundwater have been impacted by various contaminants of concern including petroleum hydrocarbons, chlorinated solvents, volatile organic compounds, semi-volatile organic compounds, polycyclic aromatic hydrocarbons, polychlorinated bi-phenyls, metals, and agricultural chemicals.

#### Underground Storage Tank (UST) and Leaking Underground Storage Tank (LUST) – California, Oregon, Washington, Idaho, Iowa and Illinois

Liam has overseen the removal of underground storage tanks at over 100 properties throughout Washington, Oregon, California, Idaho, Iowa and Illinois and conducted subsequent leaking underground storage tank investigations at



### EDUCATION

Bachelor of Science, Environmental Geology and Environmental Science  
Western Washington University, June, 1985

Master of Science, Leadership  
Bellevue University, 2017

### WORK HISTORY

Ninyo and Moore 1986  
Staff Environmental Geologist

Assoc. Earth Sciences 1990  
Environmental Project Manager

Time Oil Company 1991  
Environmental Project Manager

Various Lenders 1996  
Environmental Project Manager /  
Underwriter / Consultant

Investment Firms 2007  
Analyst / Environmental Project  
Manager

Terracon Consultants, Inc., 2020  
Senior Project Manager

## Liam J Bayly (Continued)

a number of those properties. Additionally, Liam has followed up on underground storage tank tightness testing failures conducting subsequent investigations to assess for the potential release from in-place underground storage tank systems and ancillary equipment.

### **Site Remediation and / or No Further Action – California, Washington, Iowa and Illinois**

During his career, Liam has conducted, coordinated or managed numerous site remediation projects throughout the states of Washington, Oregon, Illinois and Iowa that either resulted in site closure and/or a No Further Action status. Projects include but are not limited to the remediation and/or site closure with a No Further Action Status of mineral oil impacted soil resulting from a mineral oil release, petroleum hydrocarbon as gasoline and diesel at numerous leaking underground storage tanks sites with site closure throughout Washington and Oregon, poly-nuclear aromatic hydrocarbon site closure with No Further Action status at a manufacturing facility, site closure and monitoring of a 4 million gallon above ground petroleum bulk storage facility.

### **Soil Identification & Characterization – Washington, Oregon, Iowa and Illinois**

Liam has conducted soil waste characterization profiles for various sites throughout Washington, Oregon, Iowa and Illinois in preparation for disposal at local municipal landfills, if possible, or to move clean soil from one site to another. In Washington, where it was not possible to dispose of soil at a local landfill, soil was delivered to a 400' kiln fired concrete manufacturing plant and incorporated in to clinker following state required soil waste characterization profile analytical protocols.

# DENNIS R. SENSENBRENNER, P.G., C.G.P.

## ENVIRONMENTAL DEPARTMENT MANAGER/SENIOR ASSOCIATE

### PROFESSIONAL EXPERIENCE

Mr. Sensenbrenner is a Nebraska Certified Professional Geologist and an Iowa-Certified Groundwater Professional with over 35 years professional experience. He manages the Des Moines, Iowa office Environmental Department overseeing highly complex hydrological site characterizations including aquifer response testing, Phase I & Phase II ESA's, closure investigations, Landfills, RBCA Tier 1/Tier 2/Tier 3's, and remedial system design and installations for Ag chemical, petroleum hydrocarbon and chlorinated solvent sites throughout the Midwest. Other duties include management of asbestos and lead base paint inspection projects and air quality monitoring projects.

Mr. Sensenbrenner serves as a Terracon Environmental Professional and Authorized Project Reviewer (APR) for projects including Phase 1s, Phase 2s, and Property-Specific Sampling and Analysis Checklists. Over the last 5 years, Mr. Sensenbrenner has been the APR on over 1,600 Phase 1/2 projects and 15 remediation projects.

Mr. Sensenbrenner is a co-inventor of an air delivery system to aerobically degrade in-situ, organic compounds in groundwater systems. The Vacuum Vortex Spargerator (VVS) is a patented process where micro air bubbles are produced under a partial vacuum and introduced into the groundwater system to enhance the natural attenuation processes. The apparatus has been successfully used to treat LNAPL contaminants and can be adapted to treat DNAPL contaminants.

### PROJECT EXPERIENCE

#### PHASE I/II EXPERIENCE

#### Brownfield Projects

**Coralville, Iowa** –APR for Phase 1/2 and Checklists.

**Dubuque, Iowa** –APR for Phase 1/2 and Checklists and remedial cleanup strategies on the Ice Harbor project.

**Former PDM** – Remedial Cleanup

**Phase I/II Site Assessment Former Norfolk/Southern 75 Acre Yard – Des Moines, Iowa:** Terracon conducted a Phase 1 on the 75 acre property. Limited site investigations on areas located within or adjacent to the site that have a history of chemical releases or potential for releases. Review of historical investigations documents and explore remedial options for areas exceeding statewide standards. Performed cost analysis for remedial efforts for redevelopment.

**Phase I/II Site Assessment Southeast Connector, SE 14<sup>th</sup> to US Highway 65 – Des Moines, Iowa:** Terracon conducted site investigations on potential contamination sites located within or adjacent to the proposed improvement corridor. Potential contamination sites were photographed, and interviews with property owners will be conducted as necessary. The consultant will review available regulatory files and records for sites determined to have a potential for contamination, as well as review local property appraiser records for each site to verify legal site ownership and previous owners.

#### Fort Dodge Multi-Purpose Trails Project Phase I/II ESA

Terracon partnered with the Rock Island District of the United States Army Corps of Engineers to provide Phase I environmental site assessment and Phase II site assessment with preliminary geotechnical drilling and sampling for the Central Riverfront, Sunkist Meadows, Low Dam, and Westbluff neighborhoods. The following trails are included in the project area: Central Riverfront, Sunkist Meadows, Sunkist Meadows East option, Low Dam, Karl King Bridge option, Sunkist Meadow Bridge Option, Low Dam Bridge Option, and Westbluff Neighborhood Wayfinding Option. The site is a 354-acre tract of land extending approximately 3.2 miles that has been improved with some perimeter roads. Fees: approximately \$45,000 for Phase I ESA and approximately \$58,958 for the Phase II assessment.

\* Work performed prior to joining Terracon.

#### Education

*B.S., Geology, 1980, University of Louisville, Louisville, KY*

*Geology Field Camp, 1980, University of Kentucky, Lexington, KY*

#### Registrations/Certifications

*Licensed Professional Geologist, Nebraska, #G-0209*

*Certified Groundwater Professional, Iowa 1066*

*EPA Accredited, AHERA Certified Building Inspector, Iowa #16-6876*

*OSHA 29 CFR 1910.120, 40-hour Hazardous Waste Site Operations Training*

*OSHA 29 CFR 1910-120, Hazwoper Refresher courses, 1989 to Present*

*OSHA 29 CFR 1910-120 (e), (4), Hazardous Waste Supervisor*

*OSHA 29 CFR 1910.146 (h), (I), (J), Confined Space Entry*

*OSHA 29 CFR 1910.120, 10-hour Construction, Trenching and Excavation*

#### Affiliations

*Terracon Remediation PRG/APR*

*Terracon APR for Phase 1s*

*Terracon APR for Phase 2s*

*Environmental Professionals of Iowa (EPI)*

*Iowa Groundwater Association (IGWS)*

*Leadership Network of Des Moines (Past President)*

*West Side Breakfast Network Group (President)*

#### Work History

*Terracon, Environmental Department Mngr. 2005 - Present*

*Terracon, Sr. Hydrogeologist, 2003-2005*

*Apex Environmental, Sr. Project Manager, 1996-2003*

*Seneca Environmental Services, Senior Hydrogeologist/Group Leader, 1990-1996*

*Geotechnical Services, Project Geologist/Manager, 1988-1990*

*Waste Deposit Impact Committee, Hereford, Texas, Geotechnical and Environmental Program Manager, 1987-1988*

*High Plains Underground Water Conservation District #1, Lubbock, Texas, Resident Geologist/Inspector, 1986-1987*

*Exploration Logging of U.S.A., Senior Wellsite Geoloaist & Petroleum Technoloaist. 1982-1986*

**APPENDIX F**  
**DESCRIPTION OF TERMS AND ACRONYMS**

## Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	<p>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).</p> <p>Regulatory agencies have generally defined ACM as a material containing greater than one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.</p> <p>Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.</p>
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations

## Description of Selected General Terms and Acronyms

Term/Acronym	Description
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority) , with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a “solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.”

## Description of Selected General Terms and Acronyms

Term/Acronym	Description
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC 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. EC 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.
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.

## Description of Selected General Terms and Acronyms

Term/Acronym	Description
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.
RCRA CORRACTS/TS Ds	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TS Ds	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment. De minimis conditions are not recognized environmental conditions."
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.

## Description of Selected General Terms and Acronyms

Term/Acronym	Description
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound
Wetlands	<p>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.</p> <p>The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</p>

