Dept. of Natural Resources
FEB 03 2012
Hazardous Waste Program

Phase I Environmental Site Assessment

American Recreation Products
111-113 Industrial Drive
New Haven, Missouri

Prepared for the
Missouri Department of Natural Resources
Brownfields/Voluntary Cleanup Program

January 2012

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Phase I Environmental Site Assessment
American Recreation Products
111-113 Industrial Drive – New Haven, Missouri
January 2012

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1.0 Introduction

Barr Engineering Company (Barr) was retained by the Missouri Department of Natural Resources (MDNR) Brownfields Voluntary Cleanup Program (BVCP) to complete a Phase I Environmental Site Assessment (Assessment) of property owned by the City of New Haven and formerly operated by American Recreation Products (ARP) (hereafter referred to as the "Property"). The Property is listed under two addresses: 111 Industrial Drive (the north warehouse) and 113 Industrial Drive (the south warehouse). This arrangement allows for two separate businesses to operate at the warehouse property. The Property is located in Section 2, T44N, R3W in Franklin County, Missouri within the southern city limits of New Haven. The Property location is shown on Figure 1.

This report summarizes the findings, opinions, and conclusions of the Assessment. Detailed descriptions of the Property setting, utility information, land-use history, regulatory history, and current Property conditions and features are presented in the Phase I documentation in Appendix A. Informational resources are described in Section 5 of this report and are assigned unique reference numbers, which are used throughout the report and Appendix A.

Barr has performed this Assessment in conformance with ASTM, International (ASTM) Practice E 1527-05 and the federal All Appropriate Inquiries rule (40 CFR Part 312). Together the procedures and methods set forth in these documents constitute the requirements under which this Assessment was performed as required by the BVCP cooperative agreement with the U.S. Environmental Protection Agency (EPA). Hereafter, ASTM Practice E 1527-05 combined with the additional requirements of 40 CFR Part 312 will together be referred to as the Practice. No intentional deviations from the Practice were made in performing this Assessment except as described in Section 1.4.

1.1 Purpose

The purpose of the Assessment is to identify recognized environmental conditions (RECs) in connection with the Property as defined by the Practice and discussed in the findings and opinions section of the report and to satisfy one of the requirements for the user to qualify for a landowner liability protection defense under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

1.2 Scope of Services

The Assessment involved completion of the following four components described in Section 7 of the Practice: records review, site reconnaissance, interviews, and reporting. The following tasks were completed during the Assessment. The details of each task are described below and in Appendix A.

Records Review

- A regulatory database report (Environmental Database Research [EDR]) was obtained and federal, state, and readily available tribal records databases were reviewed.
- A United States Geological Survey (USGS) topographic map was reviewed and used to determine physical setting information.
- Historical aerial photographs were reviewed for the Property and surrounding land.
- A Sanborn Fire Insurance Map search was conducted and there were no maps available that covered the Property.
- There were no published Polk City Directories available for this portion of New Haven.

Site Reconnaissance

- An inspection was conducted of the interior of the warehouse structure and exterior features on the Property. Current conditions with respect to land use; chemical and waste storage, use, and disposal; facility operations and equipment; utilities; and evidence of potential releases of petroleum products or hazardous substances were visually observed and documented. Evidence of historical uses or conditions, if encountered, was also documented. Current land use and occupants of neighboring properties were documented during the site visit.

Interviews

- Interviews were conducted with the Property owner and Assessment user, a former employee of ARP, the City of New Haven Fire Department, the MDNR, and the USGS Missouri Water Science Center.
- The owner was interviewed regarding whether there has been evidence of past or current activities suggestive of controlled substances production on or near the Property.

Evaluation and Report Preparation

- This report was prepared to document the resources used during completion of the Assessment and to describe the findings, opinions, and conclusions of the Assessment.

1.3 Significant Assumptions

The following significant assumption was made to complete the Assessment:

The detailed history of ownership and land use to satisfy the requirements and purpose of the Assessment was determined from the activities listed in Section 1.2, Scope of Services. A

courthouse title review was not needed to determine the history of land use. Lack of a courthouse title review is not a significant data gap.

1.4 Limitations and Exceptions

There were the following limitations associated with the Assessment:

- The ground surface was obscured by approximately one-half inch of newly fallen snow.
- Vegetation was dormant due to seasonal conditions; therefore, vegetative stress could not be determined.
- Gaps greater than five years in historical documentation are present prior to development; however, general Property land use as a warehouse did not change from initial Property development during 1966 through 2012.

1.5 Special Terms and Conditions

The Assessment was conducted in accordance with an agreement between Barr and the MDNR-BVCP. The scope of the Assessment did not involve the collection and analysis of any type of samples. The Assessment did not involve completion of any surveys or the offering of any opinions or advice with respect to lead-based paint, structural engineering matters, radon, lead in drinking water, wetlands, compliance with environmental regulations, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, biological agents, mold, or other conditions that are beyond the scope of the Practice.

Barr has performed its work in a manner consistent with the care and skill ordinarily exercised by members of the environmental profession under similar budget and time constraints. Within this context, Barr assumes responsibility for its own observations, along with its interpretation of the information gathered. No other warranty is made or intended.

Because Barr was not retained to verify information, Barr assumes no responsibility for the accuracy of information that it obtained from other sources including, without limitation, regulatory and government agencies, persons interviewed about the Property, and vendors of public data. Performance of the Practice is intended to reduce but will not eliminate uncertainty regarding the presence of RECs on the Property. To the extent that Barr does not identify RECs on the Property, Barr's opinions in the report are not representations that the Property is free of such conditions. Under no circumstances can Barr represent or warrant that releases of hazardous substances or petroleum products do not exist on the Property.

1.6 User Reliance

The Assessment has been prepared for the exclusive use of the MDNR-BVCP and the City of New Haven, herein referred to as the "Users". No others may rely on the Assessment without obtaining a

formal authorization in the form of a reliance letter from Barr. Barr will provide reliance letters for additional parties only if authorized by the Users.

2.0 Site Description

2.1 Location and Description

The Property is located at 111 and 113 Industrial Drive in New Haven, Missouri. The 5.3-acre Property is located in the northeastern quarter of Section 2, T44N, R3W in Franklin County, Missouri. The City of New Haven owns the Property and is considering selling the Property to promote redevelopment.

The Property location is shown on Figure 1. The approximate Property parcel boundaries are shown on Figure 2.

2.2 Property Setting and Land Use

The Property is relatively flat. The adjacent property to the north is approximately 10 feet higher in elevation than the Property, while the baseball field to the west is approximately 10 feet lower in elevation. Surrounding properties to the east and south are similar in elevation. Area drainage is towards the southwest in the direction of a small tributary leading further south into Boeuf Creek one mile south of the Property. The Property lies at an elevation of 597 feet above mean sea level and it does not lie within the 500-year floodplain of the small tributary to the southwest.

The City of New Haven leases the warehouse to Rawlings Sporting Goods, who primarily only uses the northern warehouse wing for storage of sporting goods on pallets. ARP does not generally use the southern wing of the warehouse for any purpose. The 45,000-square-foot northern warehouse was constructed during 1966-67, and the 45,000-square-foot southern warehouse and 3,400-square-foot enclosed loading dock that joins the two warehouses were constructed during 1971. The southern warehouse is divided into a 25,000 and 20,000-square-foot section such that separate businesses could operate out of this wing. Apparently, two separate subsidiaries of ARP operated inside the warehouse at one time, which accounts for a series of offices on the northeast corner and a separate series of offices on the southeast corner of the warehouse. Figure 3 shows the layout of the warehouse building.

The Property is surrounded by a baseball field on the west, Industrial Drive on the east, a Metalcraft warehouse to the south, and two commercial businesses to the north. Vehicular access to the warehouse is off Industrial Drive by either a north or south gravel driveway. There are small, dedicated parking areas outside of both the northeastern and southeastern office areas. The eastern and western exterior walls of the warehouse contain cargo doors for tractor-trailer access, as well as a concentrated shipping area that joins the north and south warehouse wings. Both driveways turn into the rear (west side) of the warehouse and join at the center. The driveways and parking areas are covered with gravel. The City of New Haven provides drinking water, sewer service, and natural gas for the Property and Ameren-Missouri provides electrical service. The City of New Haven has zoned the Property as I-1 for light industrial use.

The interviewees revealed that the northern warehouse was constructed during 1966-67 and the southern warehouse added in 1971. The City of New Haven purchased the Property, which had been undeveloped pasture, during 1966 to promote development of the larger area as an industrial park. Kellwood, which is a subsidiary of ARP, leased the warehouse beginning in 1967. Kellwood used the Property for warehousing outdoor recreation equipment and office space. Kellwood vacated the warehouse around the end of 2010, and Rawlings occupied the space during the fall of 2011. The Property has been owned by the city ever since original development.

Suspect asbestos-containing material (ACM) is considered as a potential environmental concern due to the age of the structure, but Barr's environmental professional did not observe accessible interior building elements that may be associated with apparent suspect ACM. Most notably, the flooring and ceiling tile inside the offices are newer, having been remodeled approximately ten years ago. There was no evidence of current hazardous wastes or chemicals present either inside the building or outside at the Property. Neither the interviewees nor our records review revealed a history of chemicals or hazardous wastes being managed at the Property.

Barr identified one historical use of an adjacent property that could pose an environmental threat to the Property. Representatives of the separate Kellwood site located southeast of the Property across Industrial Drive disposed of PCE in a vacant lot north of their warehouse building. The PCE disposal resulted in groundwater contamination in the upper bedrock, and the site is classified as a CERCLA (Superfund) site under the management of both EPA and the MDNR Superfund Section. The entire New Haven region is divided into six separate Operable Units considered as the Riverfront National Priority List site. The nearby Kellwood CERCLA site is the source of contamination found in Operable Unit #2. Barr obtained copies of groundwater and potentiometric data collected from the surrounding area for this Assessment. Review of these data revealed that the groundwater contamination originating at the Kellwood CERCLA site is migrating away from the subject Property and is not considered as a material threat. The owners of the adjacent Metalcraft site to the south constructed and sampled a monitoring well near the border shared with the subject Property. This well yielded a clean groundwater sample, and as a result, the boundary of the CERCLA Operable Unit #2 subject to additional actions by the responsible party was moved by EPA further south away from the subject Property. During interviews with Barr, the EPA investigation manager (from the USGS) and the MDNR project manager both stated that it was their opinion that the subject Property is not threatened by any release from the Kellwood site, and they are not anticipating any further action involving investigation or cleanup within or near the boundaries of the subject Property. Copies of pertinent information related to the offsite Kellwood CERCLA investigation have been provided in Appendix C.

The current EDR report listed the adjacent Metalcraft site to the south as a former small quantity generator of hazardous wastes along with the Gencorp site further north across Industrial Drive. The Casey's General Store to the northeast is listed by EDR as an aboveground storage tank (AST), underground storage tank (UST), and leaking underground storage tank (LUST) site. The release from the LUST was cleaned up by Casey's, and the MDNR issued a No-Further-Action letter for the cleanup. The Royal Laundry System drycleaners site is listed in the database with the wrong address

and is actually located two miles to the east of the Property. The database map erroneously shows this site directly upgradient of the subject Property on the north.

Current land uses adjacent to the Property include the City of New Haven's natural gas supply office and water supply well pump house to the northeast, an American Legion baseball field to the west, a Metalcraft warehouse building to the south, a vacant warehouse owned by Redbird LLC to the southeast, and a storage unit business and veterinarian clinic to the north. The Ameren-Missouri utility company also operates a small substation offsite to the southwest, which is topographically at least ten feet lower in elevation.

Additional descriptions of the Property setting and land use are presented in Appendix A.

2.3 User-Provided Information

As detailed in Section 6 of the Practice, the User has responsibilities associated with identifying possible RECs in connection with the Property. The User provided Barr with a copy of the Property boundary, and he did not have any knowledge of environmental cleanup liens or activity-use limitations (AULs) against the Property, though he was aware that EPA has proposed AULs for offsite portions of the industrial park. The User was familiar with the historic PCE dumping at the nearby Kellwood site and the ongoing Superfund-related actions. He provided Barr with a copy of the location of all groundwater monitoring wells within the industrial park (Appendix C). Copies of the User and Interview Questionnaire forms Barr completed during the interview process are provided in Appendix F.

2.4 Historical Records Review

Barr ordered aerial photographs and topographic maps from EDR, but Sanborn Fire Insurance Maps and city directories were unavailable since they have not been published for this area of New Haven. Aerial photographs covering the Property were found for 1945, 1970, 1980, 1985, 1991, 2005, and 2006. The 1945 photo shows the Property as vacant pastureland, whereas the 1970 photo shows the northern wing of the warehouse at the Property. No other structures are shown within the industrial park during 1970. The 1980 photograph is of poor quality, but there are apparent structures to the north and south of both warehouse wings at the Property. By 1985, the Kellwood CERCLA site is shown southeast of the Property, and in 1991, the baseball field is apparent west of the Property. The 2005, 2006, and 2007 photographs show the industrial park fully developed as it appears today.

The original topographic map for the New Haven quadrangle is dated 1973. Barr has edited the map and provided a "close-up" view covering the immediate vicinity of the Property (Figure 1). The figure clearly shows both warehouse wings at the Property but does not show any other structures, including the Kellwood Superfund site, within the industrial park.

2.5 Out-of-Scope Request

The MDNR-BVCP requested that Barr compile a list of possible ACM observed at the Property during the site inspection. This is an additional scope activity added to the Phase I scope. Barr noted that the interior of the warehouse had newer looking floor tile and ceiling tile, and no apparent thermal pipe wrapping was present in visible interior spaces. The owner stated that a leaking roof resulted in remodeling most of the interior office areas during the past ten years.

Barr's site reconnaissance in no way constituted a thorough ACM inspection, but the environmental professional performing the reconnaissance is a licensed asbestos building inspector and based on his experience with similar buildings, observable materials did not exhibit the characteristics of typical suspect ACM. For example, no apparent thermal insulation pipe wrap was observed inside the buildings; however, a formal interior ACM inspection would typically involve sampling and testing of materials present in the buildings such as floor tiles, ceiling acoustic tiles, certain grout or mastic materials, and roofing materials. The scope of this Phase I did not involve sampling or testing and therefore we cannot conclude whether ACM is absent.

3.0 Findings and Opinions

This section summarizes observations regarding the presence of hazardous substances or petroleum products on the Property (findings) and discusses the basis for concluding if a finding is or is not a REC.

3.1 Definitions

Finding – For the purpose of this Assessment, a finding is an observation regarding the presence of hazardous substances or petroleum products on the Property, which may be considered a recognized environmental condition, a historical recognized environmental condition, or de minimis condition.

Recognized environmental condition (REC) - For the purpose of this Assessment, a REC is the presence or likely presence of any hazardous substances, pollutants, contaminants, petroleum and petroleum products, or controlled substances (as defined in 21USC 802) on a property under conditions that indicate an existing release, a past release or a material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.

Historical recognized environmental condition (HREC) - An HREC is defined by the Practice as "an environmental condition which in the past would have been considered a REC, but which may or may not be considered a REC currently." An HREC may or may not be considered a REC depending on the status of the HREC and its potential current or future impact on the property.

De minimis conditions – As defined by the Practice, conditions determined to be "de minimis" generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. De minimis conditions are not considered RECs.

3.2 Findings of Potential Environmental Concerns and Opinions

Barr has identified the following findings and developed the following opinions regarding these findings:

Current chemical or petroleum usage on the Property: There are currently no chemicals being used at the Property, other than small propane tanks used to power the two forklifts inside the warehouse.

Barr has uncovered no evidence of any leaks or spills of petroleum products at the Property, so current chemical or petroleum usage is not considered as a REC.

Historic chemical or petroleum usage on the Property: Barr did not uncover any evidence of historical chemical or petroleum use at the Property other than propane for forklifts.

Barr does not consider historical chemical or petroleum usage to be a REC.

Current waste handling on the Property: The Property currently generates no solid waste since the warehouse is used only for storage of palleted goods. According to observations and interviews (Ref. 4a and 4b), there are no hazardous wastes being generated or managed at the Property. Based on this information, Barr does not consider current waste management practices as a REC.

Historic waste handling on the Property: The EDR report did not contain any environmental database listings for the warehouse portion of the Property indicative of hazardous waste generation or improper historic waste management. An interview with a former ARP employee revealed that he did not remember ever seeing any hazardous waste generation at the Property.

Barr does not consider any historic waste management practices as a REC.

Historical recognized environmental conditions (HRECs): Barr did not uncover any evidence of HRECs at the Property.

Known impact(s) to the Property identified during previous investigations: Barr did not identify any previous environmental investigations specific to the subject Property. However, a monitoring well located south of the southern Property boundary was sampled by Metalcraft representatives (Ref. 5a). The well, which was abandoned during 2000, was free of chlorinated solvent contamination (Ref. 5a), which suggests that the solvent release at the apparently downgradient Metalcraft CERCLA site has not adversely affected groundwater on the Property.

Potential impact(s) to Property based on various historical or current uses of the Property: Historical uses of the Property involved finished product storage inside a warehouse on pallets (Ref. 4a.). This practice is not typically associated with environmental concerns or potential contaminant releases. Based on this information, past uses are not concluded to be a REC.

Potential impact(s) to the property from off-site sources (both known sites of contamination and potential sources based on historical use): The site across Industrial Avenue to the southeast known as the Kellwood Superfund site has confirmed PCE releases. Mr. Schumacher of the USGS reported that PCE had been dumped on the ground in a vacant field just north of the Kellwood structure. The PCE had migrated downward into the upper bedrock and migrated away from the subject Property towards the south and southwest in the direction of a small tributary. The monitoring well located at the Metalcraft site adjacent to the Property on the south did not yield contaminated water samples and was abandoned. Mr. Schumacher also stated that originally most of the industrial park was part of the CERCLA site boundary (Operable Unit #2), but after the

groundwater investigation revealed that contaminants had not migrated to the north or northwest, the northern unit boundary was moved to the south such that it does not include the subject Property. Mr. Schumacher was in charge of the groundwater investigation performed on behalf of EPA, and he was of the opinion that the PCE plume has not or would not migrate onto the subject ARP Property, based on groundwater monitoring results, potentiometric surface data, and upper bedrock surface slope away from the Property towards the southwest and southeast (Ref. 4e). The MDNR interviewee, Evan Kifer, was also of the opinion that the subject Property was not threatened by the Kellwood release (Ref. 4c). Both the MDNR and USGS provided Barr with electronic copies of relevant diagrams pertaining to the CERCLA investigations performed in the area of the Property (Ref. 5a/b) (Appendix C). Upon review of the Kellwood data that was provided, Barr is also of the opinion that the Kellwood CERCLA site does not pose a material environmental threat to the Property. Therefore, the adjacent solvent release site (Kellwood CECLA site) is not a REC with respect to the Property. Copies of the information reviewed are included in Appendix C.

The EDR report identified a drycleaners site apparently to the north of the Property on Industrial Drive. Upon further investigation, it was determined that the address was wrong and this drycleaners site is actually located two miles to the east on a road called East Industrial Drive. The EDR report also identified a Casey's gas station LUST site to the north and two other nearby sites with a history of small quantity hazardous waste generation. The Casey's site did receive a NFA letter from the MDNR Tanks Section, and the other two sites had no records or other indicators pointing to potential releases of hazardous wastes. Based on their location, hydraulically downgradient and their distance from the Property, none of these three sites had environmental issues that appear to pose a material threat to the Property.

Barr does not consider the identified offsite properties to be a REC with respect to the Property.

Visible evidence or documentation of filling or excavation: Based on review of historical aerial photographs, the Property inspection and interviews (Refs. 4a and 4b), there was no evidence of apparent fill material being placed onsite or signs of recent excavations.

Visible evidence of contamination or potential contamination: There was no evidence of contamination or potential contamination related to stained areas, stressed vegetation, or suspect building material inside the warehouse.

Visible evidence of stressed vegetation, stained soil, or stained pavement: None, though the presence of snow and the lack of vegetative growth during January prevented a thorough evaluation. Since the snow was well under an inch deep, large portions of the grass and gravel were visible and did not appear stained or stressed.

Visible evidence of poor housekeeping practices: None.

Evidence of onsite dumping: None, though the presence of snow prevented a full evaluation. There were no apparent excavated areas or areas with debris sticking up from the relatively flat ground surface.

Presence of onsite septic system(s), cesspools or dry wells consisting of a tank, a drain field, or both: None.

Environmental Permits: The MDNR has not required any permits or registrations for the Property.

3.3 Data Gaps

The only data gap identified that may have affected the ability of the environmental professional to identify RECs on the Property was Barr's inability to inspect the entire land surface for signs of buried debris, excavations, stains, or stressed vegetation due to snow accumulation.

The lack of historical records available prior to and after development in 1966 are not significant. The Property was undeveloped pasture prior to development within an industrial park and has apparently been used as a warehouse ever since development.

3.4 Additional Investigation

Barr has concluded that the historical records search and review, site inspection, and interviews have revealed all likely findings associated with the Property with the exception of land surface conditions. It is Barr's opinion that no sufficient evidence was found to conclude that contamination may exist onsite in soils or shallow groundwater due to historical operations at the Property or the offsite (apparently downgradient) CERCLA site to the southeast. Barr is not recommending a Phase II Environmental Site Assessment for the Property.

4.0 Conclusions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of the City of New Haven property, identified as the American Recreation Products site, located at 111-113 Industrial Drive in the southern city limits of New Haven, Missouri, the Property. Any exceptions to, or deletions from, this Practice are described in Section 1.4 of this report. This assessment has revealed no evidence of RECs in connection with the Property.

See the Findings and Opinions section for additional details.

4.1 Deviations

There were no deletions, deviations from, or additions to the Practice associated with the Assessment other than the limitations and exceptions listed in Section 1.4.

5.0 References

The following resources are numbered for use as references.

REF#	Resource	Years Covered or Item Date
Standard Historical Resources (Appendix D)		
1a	Aerial Photographs	1945, 1970, 1980, 1985, 1991, 2005, and 2006
1b	Historical Sanborn Fire Insurance Maps	None Available
1c	Polk City Directories	None Available
Physical Setting Sources (Appendix D)		
2	U.S. Geological Survey Topographic Map New Haven Quadrangle	1973
Standard Environmental Record Sources		
3	Vendor Report (Appendix E)	January 10, 2012
Interviews		
4a	User Representative: Steve Roth City of New Haven Administrator, 573-237-4696	January 12, 2012
4b	Former Property Operator: Julius Gatzemeyer City of New Haven Public Works, 573-237-3572	January 12, 2012
4c	Missouri Department of Natural Resources: Evan Kifer – Superfund Section, 573-751-1990	January 13, 2012
4d	New Haven/Berger Fire Department: Chief Brian Steuber, 573-237-3229	January 13, 20121
4e	USGS: John Schumacher Hydrologic Investigations Chief, 573-308-3678	January 12, 2012
Other Records (Appendix C)		
5a	USGS Diagrams from CERCLA Investigation – New Haven, Missouri Riverfront Superfund Site	1999-2008
5b	*Remedial Investigation Report Riverfront Superfund Site*, Parsons	June 2010

6.0 Signature and Qualifications of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all-appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Barr performed this Assessment in conformance with the ASTM, International (ASTM) Practice E 1527-05. Special terms, conditions, limitations, and exceptions that apply to the Assessment are described throughout this Report and in the Appendices.

Rob Murphy January 31, 2012

Environmental Professional (Date)

Qualifications of the Environmental Professional (EP) are summarized in Appendix G.

Figures

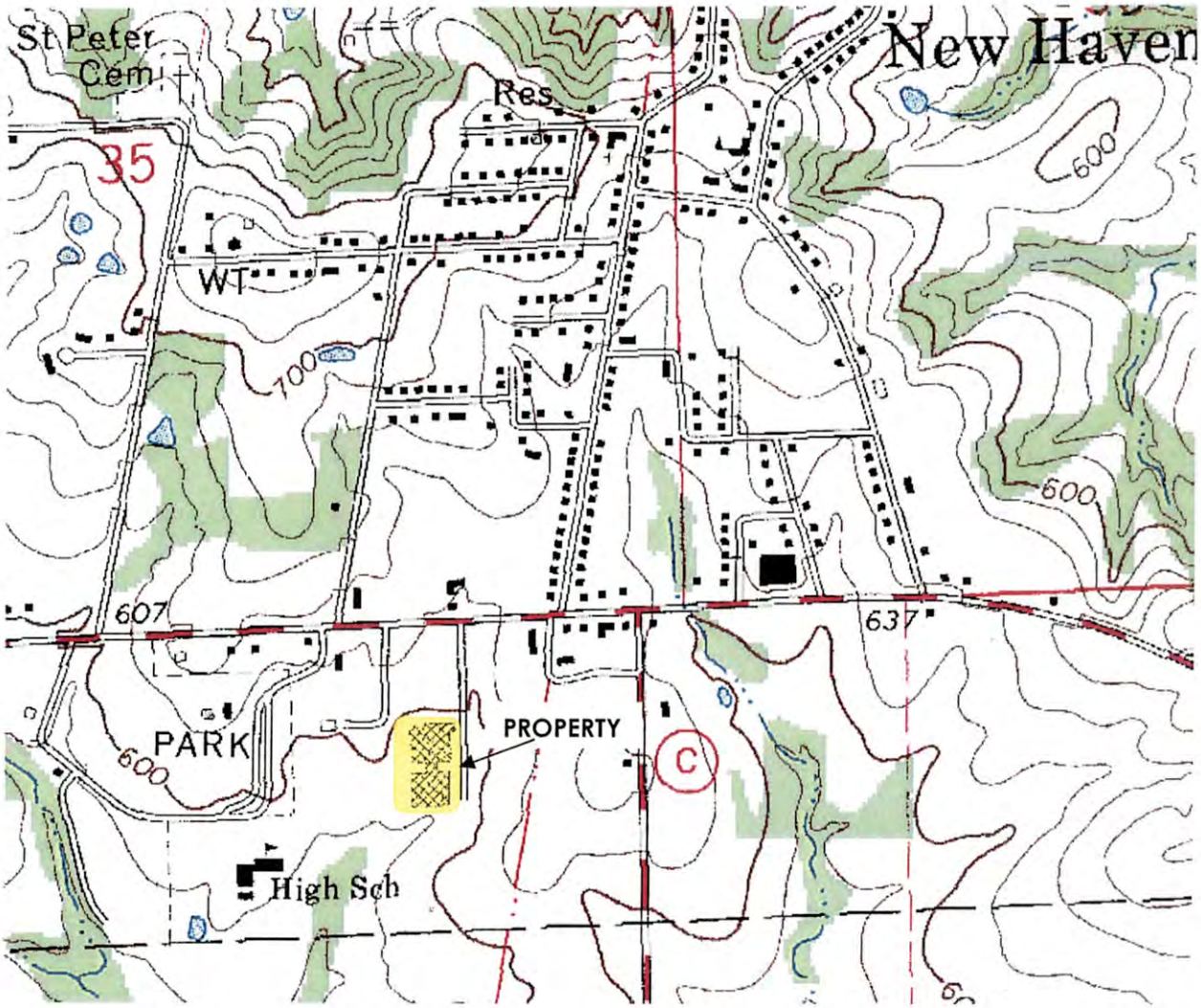


FIGURE 1

Property Location

American Recreation Products

New Haven, Missouri

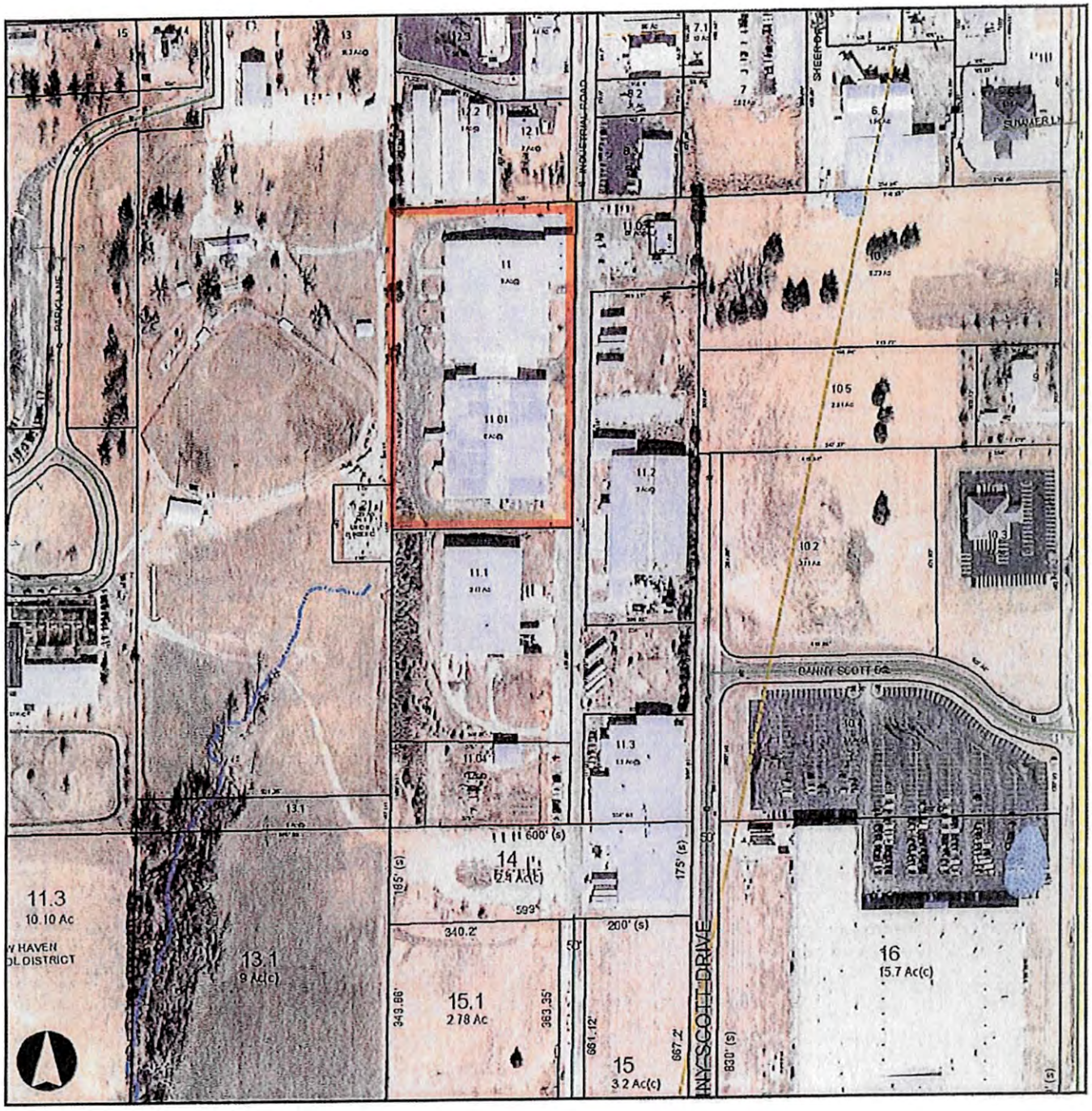


FIGURE 2
Property Boundary
American Recreation Products

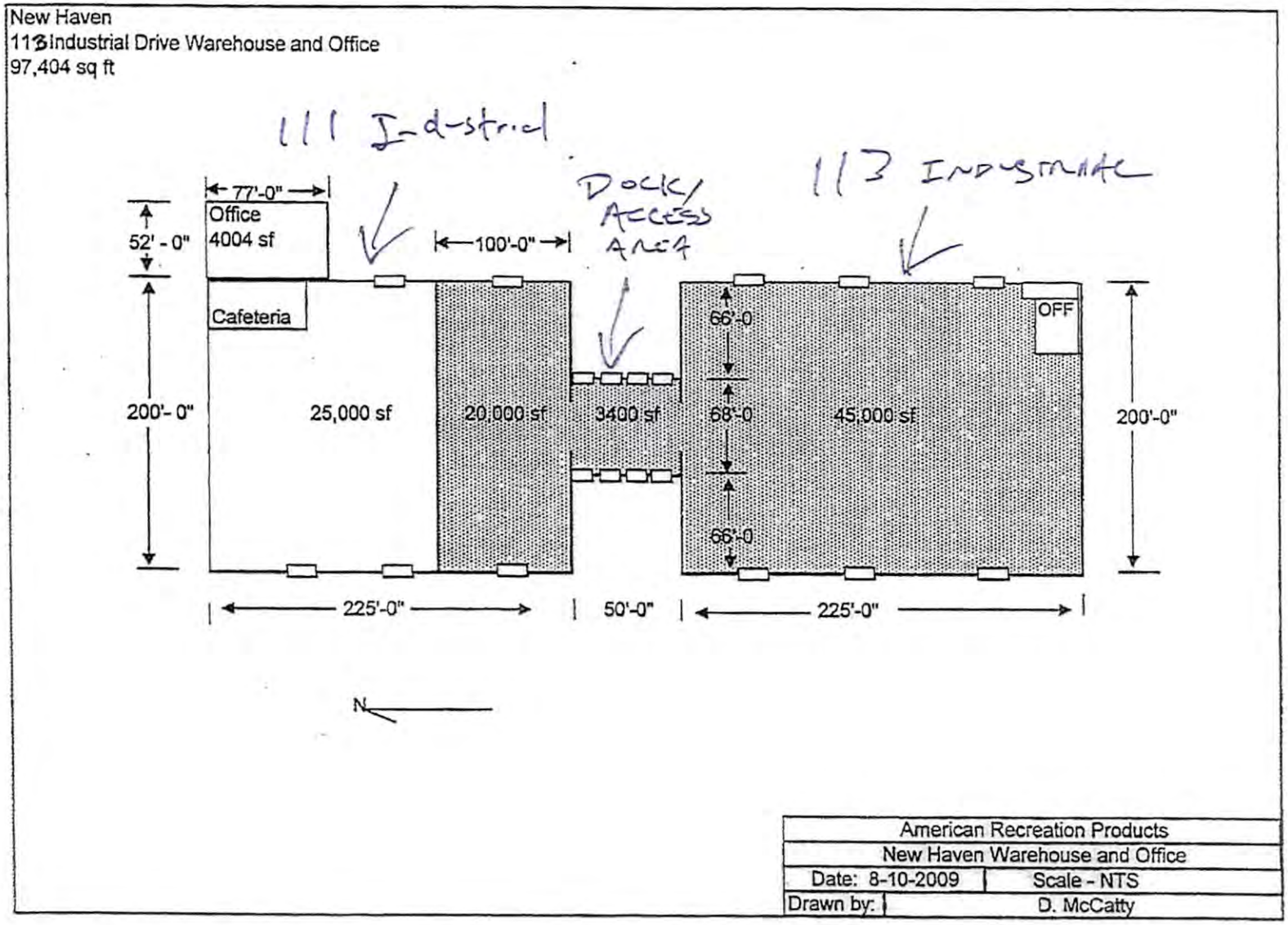


FIGURE 3

Building Layout

American Recreation Products

Appendix A

Phase I Documentation

Appendix A

Phase I Environmental Site Assessment Documentation
American Recreation Products – 111/113 Industrial Drive
New Haven, Missouri

I. General Property Information

The property location map is shown on Figure 1, parcel dimensions are shown on Figure 2, and the building layout is shown on Figure 3.

Property name: American Recreation Products

County: Franklin

Township: 44N **Range**: 3W **Section**: 2

Property size: 5.3 acres

Current Property owner: The City of New Haven owns the property and warehouse building, which is leased to Rawlings Sporting Goods.

Current Property use: Rawlings uses the northern portions of the warehouse for storage of commercial products, which include baseball equipment and other sporting goods resting on shrink-wrapped pallets.

II. Physical Setting

Surface elevation: The property lies at an elevation of 597 feet above mean sea level.

Topographic conditions of Property: The parcel is relatively flat. The adjacent site to the west is approximately 10 feet lower than the property and the adjacent sites to the north are approximately ten feet higher in elevation. Area drainage is towards the south-southwest in the direction of a small tributary of Boeuf Creek (Ref. 2).

Area geology (soils and upper bedrock units):
Soil Stratigraphic Unit:

Soil Component Name: The soil type designation from the Soil Conservation Service covering this property is "Crider". The soils are generally well draining silts and silty clays. Depth to the upper bedrock is approximately 26 feet at the southern boundary of the property (Ref. 5b)

Rock Stratigraphic Unit:

Era: Paleozoic
System: Ordovician
Series: Cotter Dolomite 26 feet to 130 feet, underlain by the Jefferson City Dolomite from 130 feet to 285 feet, followed by the Roubidoux Sandstone aquifer system.

Nearest surface water body (name and distance): A small tributary begins just off the southwest corner of the property. This unnamed creek flows south for approximately one mile and empties into Boeuf Creek. Boeuf Creek flows east and then north for a total of five miles before emptying into the Missouri River. The property does not lie within the 100-year or 500-year floodplain.

Anticipated groundwater depth/flow direction: Data obtained from the nearby CERCLA investigation show that there may be groundwater present at depths of 20 feet below ground in the unconsolidated material. Wells screened within the upper bedrock show water levels at 31 feet below ground, which is below the bedrock surface. Potentiometric maps prepared for the area by the USGS show the upper bedrock flow direction towards the south or southwest in the direction of the Boeuf Creek tributary southwest of the property.

Regional aquifer:
The regional aquifer is found at depths from 100-1000 feet below ground. Potable water source for New Haven is from groundwater monitoring wells, one of which is located across Industrial Drive immediately to the east of the property. This well is 980 feet in depth. Seven private wells are reported within one mile of the property. Local wells can produce water from the Missouri River alluvium, the Cotter Dolomite/Roubidoux Sandstone formations from 100-400 feet below ground, and/or the Gasconade Dolomite/Gunther Sandstone from 600-1000 feet below ground (Ref. 3).

III. Municipal Information & Utility Service to Property

Water Supply

Municipal water supply and intake location(s): The City of New Haven obtains its potable water supply from wells producing from the Roubidoux Sandstone formation at depths of 425 feet or the Gasconade Dolomite/Gunther Sandstone at depths of over 600 feet (Ref. 3).

Years of service for the current potable water supply for the Property: Since 1967.

Have other potable water supplies serviced the Property? No (Ref. 4b).

Sanitary Service

Type of sanitary service for the Property: The property is connected to the New Haven municipal sewer system.

Years of service for the current sanitary service: Since 1967.

Evidence of onsite septic systems or drain fields: No septic tanks or drain fields were observed.

Have other methods of sanitary service been used at the Property? No (Ref. 4b).

Storm Drains

Do stormwater drains and storm sewers service the Property? There is a storm drain located near the southeast corner of the property along Industrial Drive. This drain leads into a system flowing west underground into the creek tributary. The warehouse roof drains out downspouts on both the east and west sides of the building into this underground collection system, also draining into the offsite western tributary.

Property Zoning

The City of New Haven has zoned the property as I-1 for light industrial use.

IV. Property, Adjoining, and Surrounding Area Regulatory Status

Regulatory database summary and supporting information is in the EDR report located in Appendix F. Only information generated through searches of databases required by ASTM 1527-05 and within the appropriate minimum search distances were reviewed. The property itself is not listed in the database (Ref. 3), as the EDR listings related to Kellwood refer to the PCE disposal site to the southeast.

Adjoining or Potentially Upgradient Sites

A complete listing of other nearby sites with environmental issues within the standard ASTM search radius is found in the EDR report in Appendix E. The groundwater flow direction and surface topography indicate that sites to the north or northeast may have the potential to be in an upgradient position of the property. Based on the site reconnaissance, topographic maps, and the EDR report content, Barr has only listed the following nearby sites from the EDR listing that are adjacent or upgradient of the property.

Name	Address	ASTM Listing(s)	Distance & Direction From Property	Do issues related to the listing indicate the potential for impacts to soil or groundwater at the Property?
Riverfront/ Kellwood	202 Industrial Drive	NPL, CERCLIS, ENG CONTROLS, SHWS	527 feet across Industrial Drive to the southeast	YES. At one time, there appeared to be the potential for this CERCLIS site to impact the surrounding area. An extensive groundwater investigation performed by EPA (via the USGS) and the responsible party (Kellwood) revealed that the PCE contamination originated southeast of the property and is currently located south and southeast

Name	Address	ASTM Listing(s)	Distance & Direction From Property	Do issues related to the listing indicate the potential for impacts to soil or groundwater at the Property?
				of the property in the shallow aquifer. A bedrock monitoring well located near the southeast corner of the property was sampled and no PCE was present. In addition, the potentiometric maps prepared for the area show contaminant migration away from the property, not towards it. Originally, the southern portion of the property had been included within the boundary of the CERCLIS unit known as OU2. In 2008, a new boundary approved by EPA for OU2 excluded the entire subject property from the boundary of the CERCLIS unit (Ref. 5a/5b).
Metalcraft Enterprises	202 Industrial Drive	RCRA NON-GEN	Adjacent on south	No. This listing refers to the Metalcraft business that has a building adjacent to the property on the south and a second structure across Industrial Drive to the southeast. There has been no history of contaminant releases from small quantity waste generation (Ref. 3).
Royal Laundry System	101 East Industrial Drive	DRYCLEANERS	1155 feet to the north	No. This site is a laundromat actually located on East Industrial Drive that is two miles away to the east. EDR's mapping software placed this site in the wrong location just upgradient of the subject property (Ref. 4a).
Casey's General Store	9454 State Highway 100	LUST UST AST	1176 feet north	No. One LUST was removed along with contaminated soil and the site owner received a NFA from the MDNR Tanks Section during 2000. Low-level MtBE contamination was present in the shallow groundwater but the levels decreased to non-detect. A second UST had been removed in 2008 that was not reportedly leaking (Ref. 3).
Gencorp	116 Industrial Drive	RCRA NON-GEN, FINDS	900 feet north	No. This listing refers to the business that operates a building across Industrial Drive from the property to the northeast. There has been no history of contaminant releases due to small quantity waste generation (Ref. 3).

Tribal Sites

As part of the EDR report, locations of Native American reservations equal to or greater than 640 acres in size within the search area are reported. No reservations meeting this size criterion were identified within one mile of the property (Ref. 3).

Orphan Site Summary

There were eight unmapped (orphan) sites identified in the regulatory report. None of these orphan sites is located adjoining to or upgradient from the property based on a review of area maps, field observations, and mapping websites.

Environmental Liens

No environmental liens were identified for the property (Ref 4a).

Activity Use Limitations

No institutional or engineering controls were identified for the property (Ref 4a). Controls have been recommended by EPA for other Kellwood parcels of land within the industrial park but these do not include the subject property (Ref 4c/e).

V. Previous Environmental Investigations of the Property

Barr was unable to identify any investigations specific to the property. The owners of the Metalcraft site adjacent to the subject property on the south had a monitoring well installed and sampled during 1999 as part of a Phase II investigation. The well had been located near the property boundary, and was reportedly free of chlorinated solvents (Ref. 5a/b). The owners shared this information with EPA and the Kellwood groundwater consultants, resulting in shifting the boundary of the CERCLA unit site further to the south offsite. Based on the hydrogeologic investigation results, the property is hydraulically upgradient with respect to the Metalcraft solvent release site (Ref. 5a/b).

VI. Property and Nearby Property Land-Use History

Property Land-Use History

Current Use(s) of the Property: The property has two warehouse wings joined at the center by a narrower enclosed shipping dock. Rawlings Sporting Goods leases the building, primarily only using the northern warehouse for storage of sporting goods on pallets. The offices on the northeast and southeast corners of the building are unused.

Original Property development (year/use): The interviewees revealed that the northern warehouse was constructed during 1966-67 and the southern warehouse added in 1971. The City of New Haven purchased the property, which had been undeveloped pasture, during 1966 to promote development of the larger area as an industrial park. Kellwood, which is a subsidiary of American Recreation Products (ARP), leased the warehouse beginning in 1967. Kellwood only used the property for warehousing outdoor recreation equipment and office space. Kellwood vacated the warehouse around the end of 2010, and Rawlings occupied the space during the fall of 2011. The property has been owned by the city ever since original development.

Historical Property Structures

Barr was unable to uncover any evidence of historic structures at the property. Owner representatives reported that the property and surrounding areas consisted of undeveloped pasture prior to initiating the industrial park development.

Demolition Debris: Barr did not note any signs of construction debris or fill material at the property. None of the interviewees revealed any evidence of debris being buried at the property.

Current Property Structures, Renovations and Additions

The 45,000-square-foot northern warehouse was constructed during 1966-67, and the 45,000-square-foot southern warehouse and 3,400-square-foot enclosed loading dock that joins the two warehouses were constructed during 1971. The southern warehouse is divided into a 25,000 and 20,000-square-foot section such that separate businesses could operate out of this wing. Apparently, two separate subsidiaries of ARP operated inside the warehouse at one time, which accounts for a series of offices on the northeast corner and a separate series on the southeast corner of the warehouse.

Nearby Property Land-Use History

North	**Historical Use**	Pastureland
	Current Use	Storage unit rental business and a veterinarian clinic
South	**Historical Use**	Pastureland
	Current Use	Metalcraft warehouse
West	**Historical Use**	Pastureland
	Current Use	American Legion baseball field, Ameren substation
East	**Historic Use:**	Pastureland, Kellwood warehouse
	Current Use:	City water supply well, city natural gas supply office, vacant Redbird LLC warehouse building

General type of current or past uses in the surrounding areas:
Since original development during the late 1960s and early 1970s, the area has been part of an industrial park consisting of a mixture of the industrial businesses and warehouse/shipping companies.

VII. Site Reconnaissance

The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the property (ASTM 1527-05 Sec 9.1). Photographs obtained during the property inspection are in Appendix B.

Date of inspection: January 12, 2011.

Name of individual conducting site visit: Rob Murphy from Barr, accompanied by Steve Roth, the New Haven City Administrator and user of this assessment.

Weather information: 15 degrees with light snow. The ground surface was covered with about one-half inch of snow that had fallen the night before.

Interior Observations

Features of Current Property Structure(s)
The following table(s) summarizes the current property structure and features.

Property Structure: ARP warehouse	
Use(s):	Warehouse for Rawlings Sporting Goods.
Construction Information:	Concrete foundation, metal roof and siding, concrete slab floor in the two warehouse areas with floor tile/carpeting in the finished office areas. Both office areas also have ceiling tile present. Both the flooring and ceiling appear newer in nature and the owner confirmed the building had been remodeled after roof leaks were prevalent throughout the structure.
Fuel Source for Heating and Cooling:	Forced air natural gas furnace and electric central air conditioning.
Floor Drains (#, location, condition, discharge points):	None.
Floor Type and Condition (cracking, staining):	The concrete floor inside the warehouse is generally in good condition with no signs of staining.
Parts Washers:	None.
Transformers:	None observed inside.
Electrical or Hydraulic Equipment:	There were two forklifts observed inside the warehouse that use small propane tanks for fuel.
Chemical Storage:	There were no chemicals observed inside the warehouse.
Interior Tanks/Containers	There are no tanks or other vessels containing chemicals inside of the building.
Other:	The roof still leaks in numerous locations, as the owners have placed 5-gallon buckets on the floor to catch the drips. One of the overhead fire sprinkler unit pipes has sprung a leak, as there was a large puddle of water on the floor beneath it. No apparent ACM was observed inside the structure. The southern offices did have working fluorescent light bulbs along the ceiling.

Exterior Observations

Methodology used to observe the Property:
A walk-through of accessible and readily accessible spaces was conducted and representative photographs were taken (Appendix B). Visible and accessible interior spaces were viewed during the walk through. Large quantities of warehoused product was stacked inside the warehouse, which precluded Barr from viewing all floor surfaces and from accessing the entire warehouse interior.

Representative rooms and spaces or representative areas of large interior functional spaces were viewed and documented.

Representative transects across the exterior property were walked, viewed and photographed. Multiple perspectives were viewed during the exterior reconnaissance walk such that the majority of the exterior property was visible and views of adjoining land were possible.

Access to the Property (vehicular access and restrictions to public access):
There are two gravel driveways leading into to the property off Industrial Drive. One leads to the north side of the north warehouse, while the other leads to the south side of the southern warehouse. These continue around the back (west) side of the warehouse and join together. There are loading docks/cargo doors all along the east and west sides of both warehouses, and a large loading area in the center connecting section of the warehouse. All office doors leading to both wings of the warehouse are locked and there is an alarm system. There are no gates or fences surrounding the property to restrict access.

Periphery of the Property (roads, streets and parking facilities, etc.): The west side of the property is vegetated with small trees and weeds, while Industrial Drive forms the eastern boundary. The north and south boundaries are formed by the gravel driveways leading into the western back area of the warehouses. The only dedicated parking areas are the gravel surfaces along the northeastern and southeastern areas near the offices, accessed by either driveway.

Ground surface cover (paved, gravel, grass): Most of the property consists of the two warehouse wings and the gravel driveway/driveway surfaces. There is a small area of grass between the driveway and the rear of the warehouses and between Industrial Drive and the front of the warehouse.

Visible evidence of filling, excavation, or burned areas: None, though the ground surface was partially snow covered. The snow was shallow enough to observe most of the vegetated and graveled surface areas.

Visible evidence of vegetative stress: None, though ground surface was partially snow covered.

Pits, ponds, lagoons, and standing surface water: None.

Stained soil or pavement: None, though most of the gravel surfaces were partially snow covered.

Wastewater, stormwater, and other visible liquid discharge points into a pipe, ditch, stream or adjoining property: All surface water originating during precipitation events would appear to be diverted towards the lower area of the property where it is collected in the stormwater drain along Industrial Drive. This stormwater and the roof downspouts collected into the underground system discharge into the creek tributary offsite to the southwest.

Indications of past uses of the Property likely to involve the use, treatment, storage, disposal or generation of hazardous substances or petroleum products: There is no visual evidence of hazardous wastes or chemical products stored or managed at the property.

Non-potable/process wells: No wells were noted during the inspection. Barr was notified prior to the inspection that there might be a monitoring well located near the southern boundary shared with Metalcraft. Barr looked for signs of this well but did not see any. Barr subsequently learned during an interview that this well had been abandoned during 1999.

Pipelines across or into Property: None.

Rail lines: None present now or historically.

Transformers: There is one pad-mounted transformer just off the rear wall of the northern warehouse. A second pad-mounted transformer was observed at the southeastern boundary of the property shared with Metalcraft. These transformers were observed to be in good condition. There were no signs of oil leaks on the concrete pads, and they appeared newer in nature. The owner did not know if or when Ameren-Missouri (Ameren) may have changed the coolant oil inside. Ameren would be responsible for the transformers. Ameren also operates a small substation located offsite to the southeast. This substation is approximately 10 feet lower in elevation than the property and would not appear to pose as a threat if any fluids had been released from the electrical components.

Outdoor Chemical Storage Areas/Drums: There was no outdoor storage of chemicals noted during the site inspection.

Odors: None outside.

VIII. Interior and Exterior USTs and ASTs

There was no evidence of historical or current storage tanks or other vessels used at the property.

IX. Current Property Waste Management

There are no hazardous wastes currently or historically being generated or managed at the property. The warehouse currently has no solid waste pickup service, though it would be provided by Allied Waste via a dumpster.

X. Interviews with Owners/Occupants

The objective of interviews is to obtain information indicating RECs in connection with the property (ASTM 1527-05 Sec 10.1). All interview questionnaires are in Appendix F. Especially relevant information from the interviews is included and documented throughout the assessment report and Appendix A.

Interviewees included the owner and user representative (Steve Roth - City of New Haven Administrator), a former employee of ARP with historical property knowledge (Julius Gatzemeyer -

currently with the City of New Haven Public Works), the New Haven Fire Department, the USGS Missouri Water Science Center, and the MDNR BVCP.

Evan Kifer (Ref. 4c) from the MDNR Superfund Section provided Barr with copies of the Record of Decision and the Remedial Investigation Report for the Kellwood site located offsite to the southeast. He confirmed to Barr that the boundary of the CERCLA unit OU2 does not encompass the subject property, that institutional controls have not been implemented at any of the sites, and that it is unlikely that the subject property has been impacted by the historic PCE release at the Kellwood Superfund site located to the southeast.

Julius Gatzemeyer (Ref. 4b) provided Barr with a history of the property and stated that to his knowledge there had never been a release of chemicals at the property. He stated that there had never been chemicals or petroleum products stored at the property in any significant quantity since the building had only been used for storage of retail items.

Chief Brian Steuber (Ref. 4d) told Barr that the New Haven Fire Department had not responded to a fire or chemical release at the property.

Steve Roth (Ref. 4a) answered Barr's questions regarding the city's use of the assessment, and provided Barr with background information and historical ownership of the property and surrounding properties. Barr completed a User Questionnaire that is found in Appendix F. Mr. Roth had stated that he was aware of a monitoring well located either on or near the southern boundary of the property but was not sure if it was still present. He provided Barr with a copy of a figure showing monitoring well locations in the area.

John Schumacher (Ref. 4 e) with the USGS provided Barr with a detailed history of the Kellwood Superfund site located offsite to the southeast. He reported that PCE had been dumped on the ground in a vacant field just north of the offsite Kellwood structure. The PCE had migrated downward into the upper bedrock and migrated away from the subject property towards the south and southwest. He stated that a monitoring well was located at the Metalcraft site adjacent to the property on the south, never yielded contaminated samples, and was abandoned during 1999. He also stated that, originally, most of the industrial park was part of the CERCLA site boundary, but after the groundwater investigation revealed that contaminants had not migrated to the north or northwest, the northern unit boundary was moved to the south such that it does not include the subject property. Mr. Schumacher was in charge of the groundwater investigation performed on behalf of EPA, and he was of the opinion that the PCE plume has not or would not migrate onto the subject ARP property based on groundwater monitoring results, potentiometric surface data, and upper bedrock slope away from the property towards the southwest and southeast. He provided Barr with electronic copies of relevant diagrams pertaining to the CERCLA investigations performed in the area of the property.

Appendix B

Property Inspection Photographs

Photographic Log

American Recreation Products

January 12, 2012

Photo #	Comments
1	Interior of the northeastern corner offices
2	Example of the newer floor tile inside the offices
3	Example of the newer ceiling tile after remodeling
4	Bathroom inside the office area
5	Northern warehouse wing looking west
6	Looking south along the western wall of the northern wing
7	Looking east along the southern portion of the northern wing
8	Western side of the central shipping area
9	Eastern side of the central shipping area
10	Unused area of the southern warehouse wing
11	Closet area inside the southern wing
12	Water damage inside of the former bathroom, southeast corner of the warehouse
13	Southeastern office area
14	Newer southeastern office floor tile
15	Break room inside southeastern office area
16	Fluorescent light bulbs inside the offices
17	Looking west across the south side of the southern warehouse wing
18	Looking north at northeastern corner offices
19	Ducts above the northeastern offices
20	Separate, original office area inside northeast corner of the warehouse
21	Newly remodeled offices, northeastern corner
22	Looking north at offsite veterinarian clinic
23	Looking northwest at offsite storage unit business
24	Exterior of the northeastern offices at the Property
25	Northern exterior of the warehouse and gravel driveway, looking west
26	Looking east at city gas office and well across Industrial Drive
27	Looking south at eastern exterior of the offices
28	Looking south at eastern exterior of both warehouse wings
29	Looking southeast at the vacant offsite warehouse across Industrial Drive (Redbird LLC)
30	Looking south at western exterior of both warehouse wings
31	Pad-mounted transformer behind the western exterior wall
32	Looking west at offsite American Legion baseball field
33	Ameren utility substation offsite to the southeast
34	Looking southeast at the Metalcraft warehouse adjacent to the property on the south
35	Looking east at southern exterior wall of the warehouse
36	Southern gravel entrance looking east
37	Pad-mounted transformer near southeastern property boundary
38	Stormwater collection drain for the property, southeastern property boundary

Photo #1—Interior of the northeastern corner offices

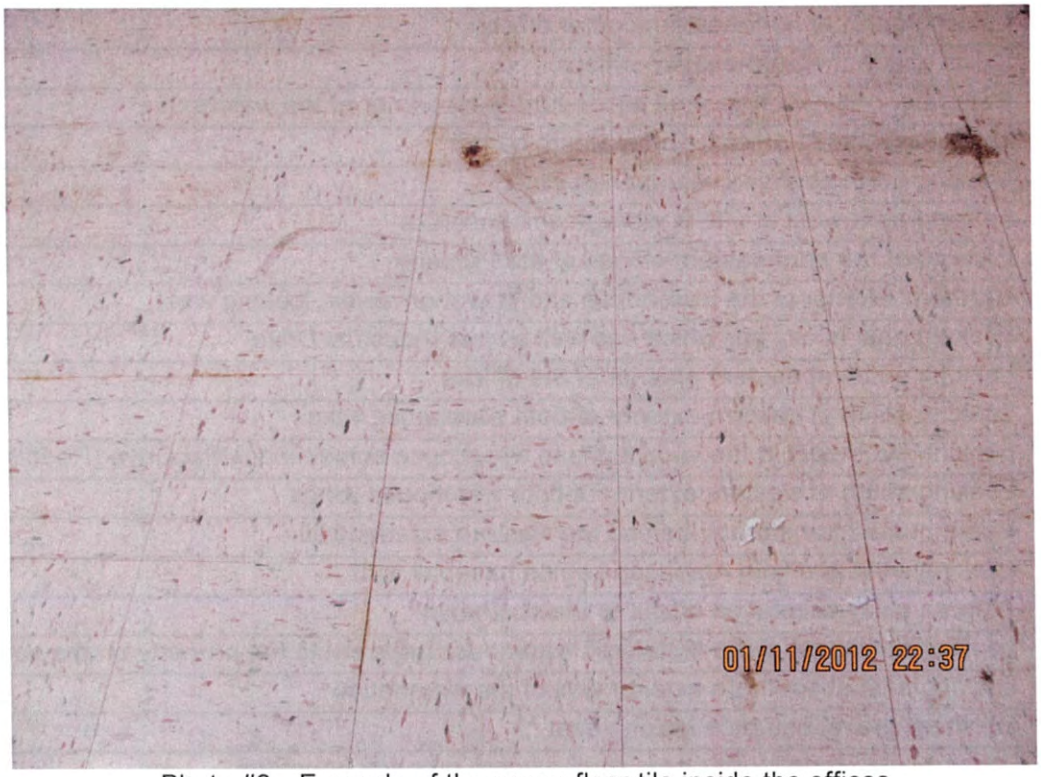


Photo #2—Example of the newer floor tile inside the offices

Photo #3—Example of the newer ceiling tile after remodeling

Photo #4—Bathroom inside the office area

Photo #5—Northern warehouse wing looking west

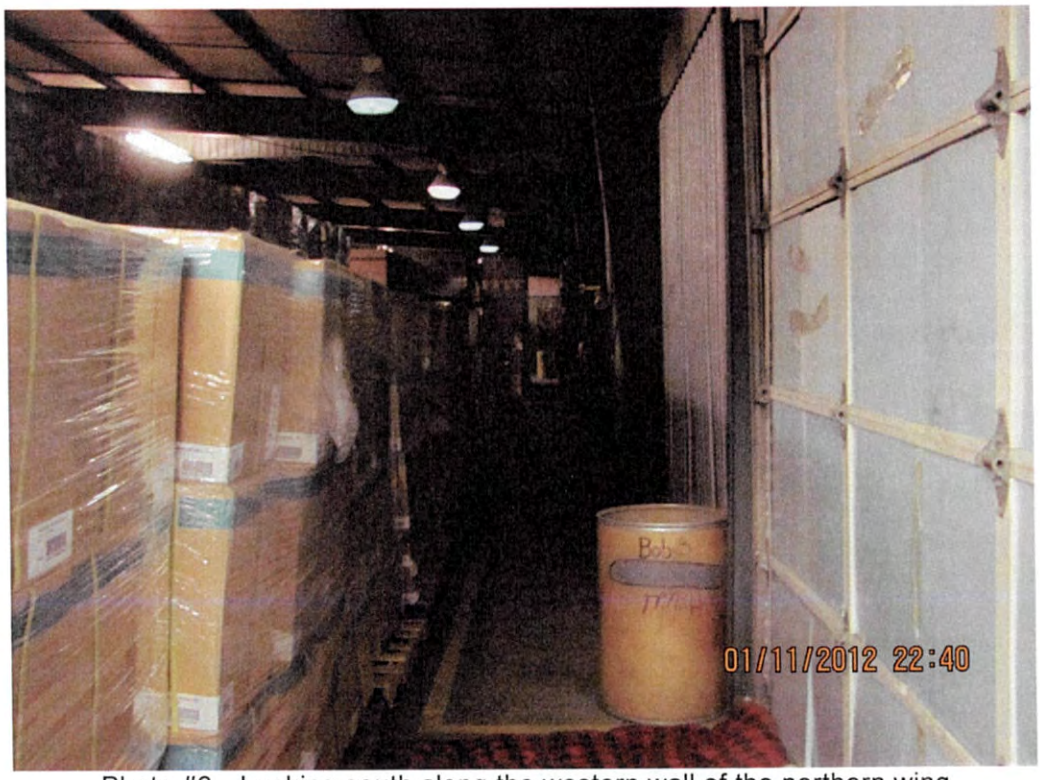


Photo #6—Looking south along the western wall of the northern wing

Photo #7—Looking east along the southern portion of the northern wing

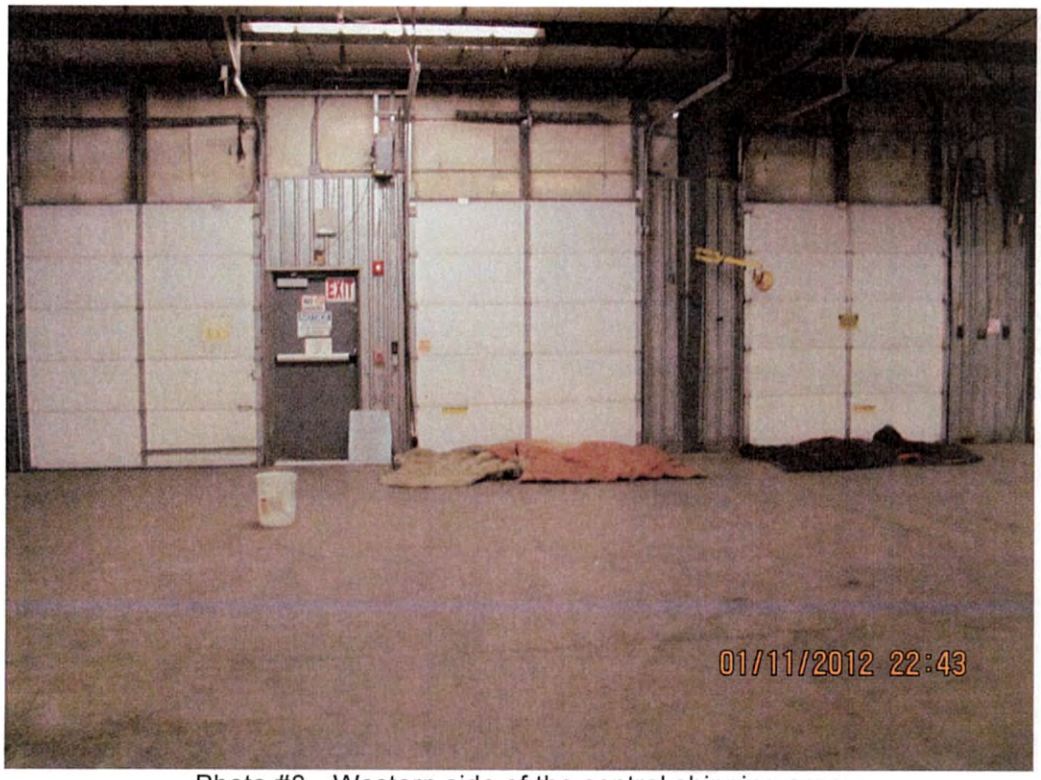


Photo #8—Western side of the central shipping area

Photo #9—Eastern side of the central shipping area

Photo #10—Unused area of the southern warehouse wing

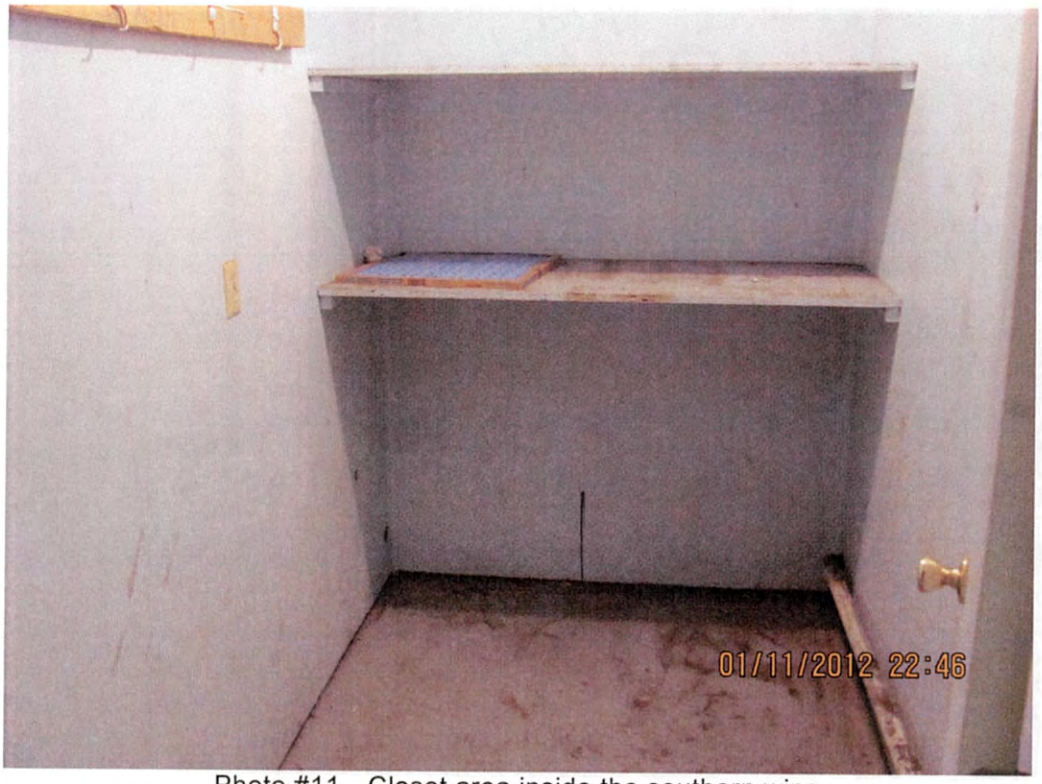


Photo #11—Closet area inside the southern wing

Photo #12—Water damage inside of the former bathroom, southeast corner of the warehouse

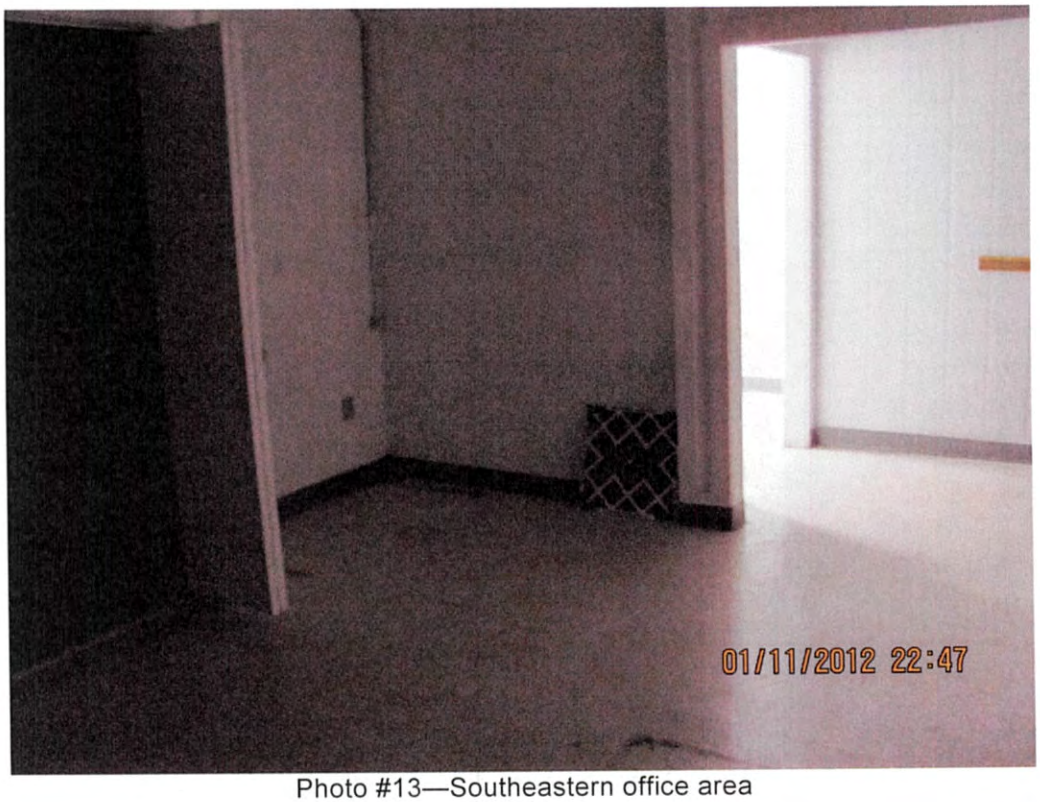


Photo #13—Southeastern office area

Photo #14—Newer southeastern office floor tile

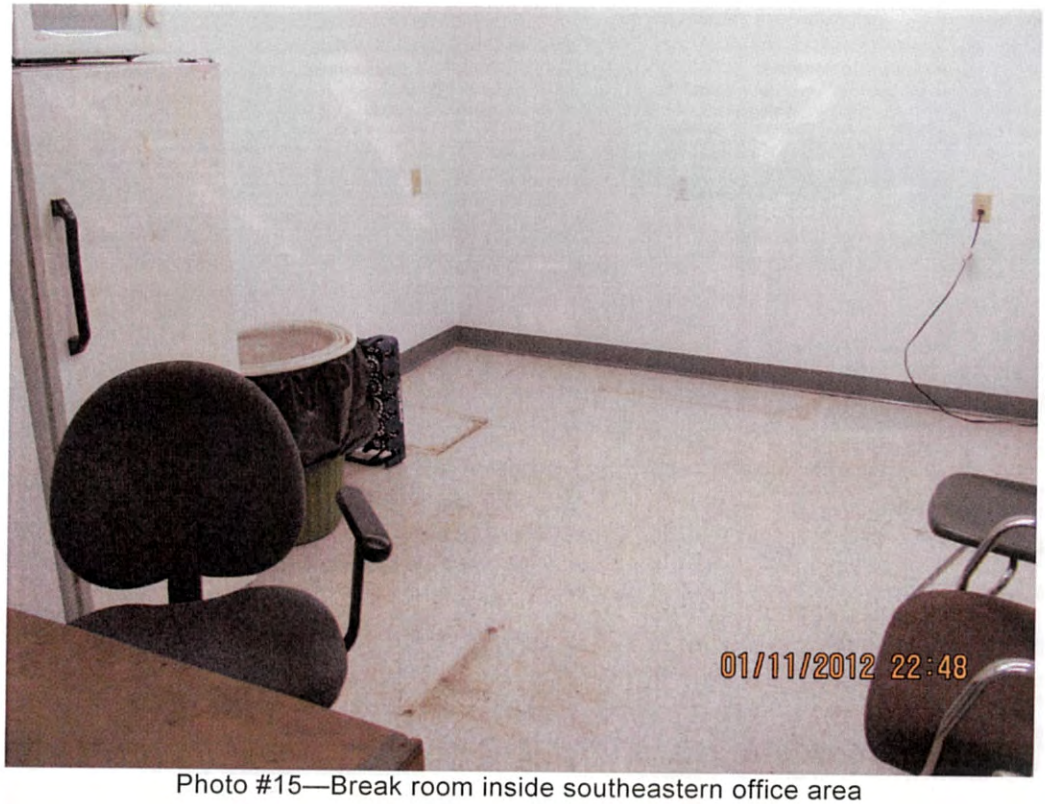


Photo #15—Break room inside southeastern office area

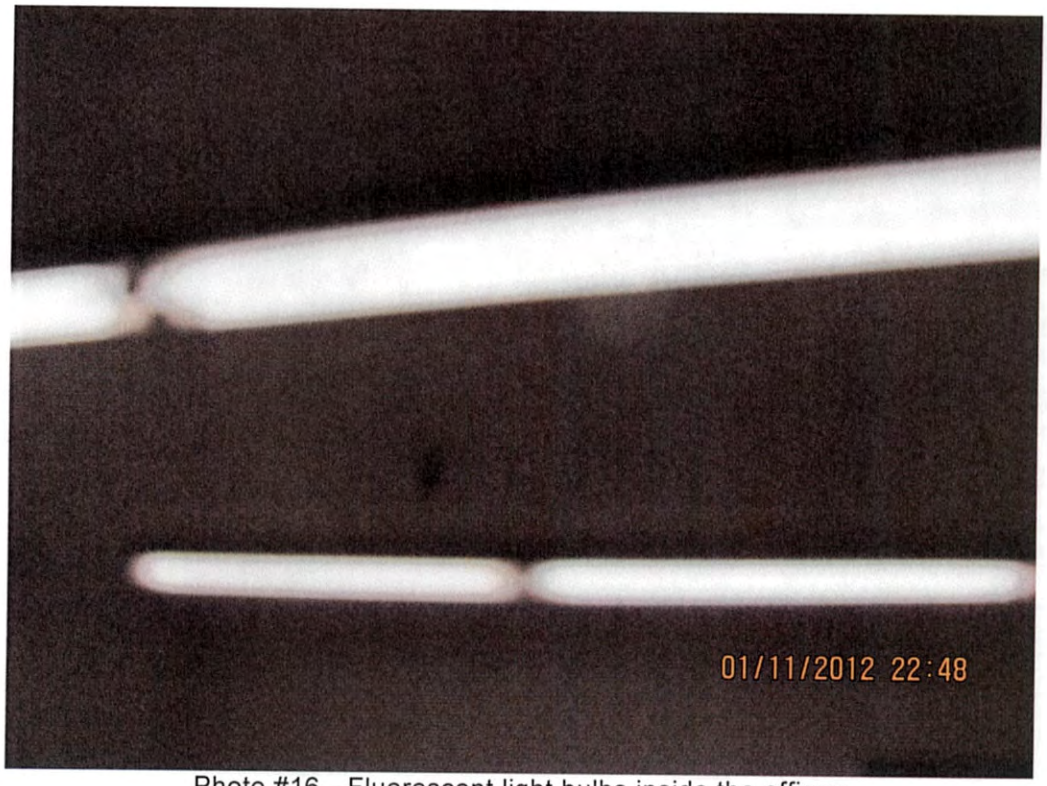


Photo #16—Fluorescent light bulbs inside the offices

Photo #17—Looking west across the south side of the southern warehouse wing

Photo #18—Looking north at northeastern corner offices

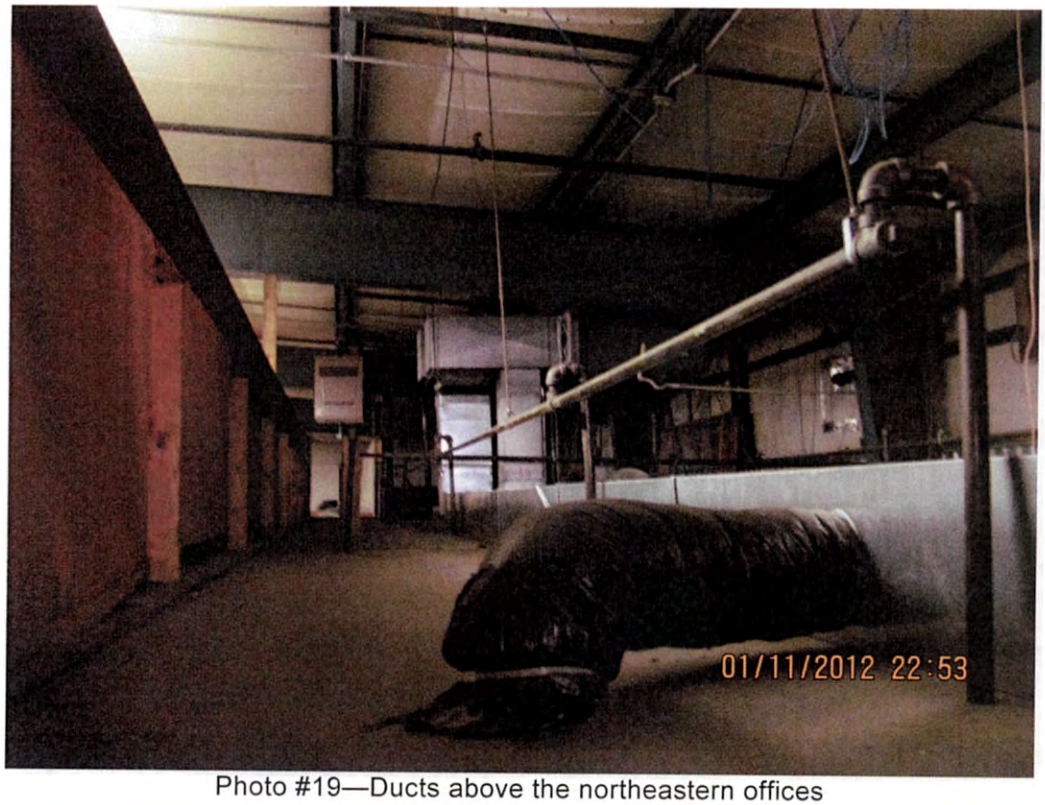


Photo #19—Ducts above the northeastern offices

Photo #20—Separate, original office area inside northeast corner of the warehouse

Photo #21—Newly remodeled offices, northeastern corner

Photo #22—Looking north at offsite veterinarian clinic

Photo #23—Looking northwest at offsite storage unit business

Photo #24—Exterior of the northeastern offices at the Property

Photo #25—Northern exterior of the warehouse and gravel driveway, looking west

Photo #26—Looking east at City gas office and well across Industrial Drive

Photo #27—Looking south at eastern exterior of the offices

Photo #28—Looking south at eastern exterior of both warehouse wings

Photo #29—Looking southeast at the vacant offsite warehouse across Industrial Drive (Redbird LLC)

Photo #30—Looking south at western exterior of both warehouse wings

Photo #31—Pad-mounted transformer behind the western exterior wall

Photo #32—Looking west at offsite American Legion baseball field

Photo #33—Ameren utility substation offsite to the southeast

Photo #34—Looking southeast at the Metalcraft warehouse adjacent to the Property on the south

Photo #35—Looking east at southern exterior wall of the warehouse

Photo #36—Southern gravel entrance looking east

Photo #37—Pad-mounted transformer near southeastern Property boundary

Photo #38—Stormwater collection drain for the Property, southeastern Property boundary

Appendix C

USGS CERCLA Investigation Figures

Notes: 1) Results shown for wells MW-1 through MW-5 were the maximum values seen in samples collected by EMA in 1999.
2) Results shown for wells MW-101 through MW-103 were collected by Parsons in December 2003.
3) Results Shown for wells BW-20 through BW-22 were the maximum values seen in samples collected by USGS in 2001.
4)Results marked with an asterisk were collected using a field GC.

N
W E
S

190 0 190 380 570 Feet

Legend

- Not Detected (ND)
- PCE <5 PPB
- PCE >5 PPB
- OU2 Boundary

Sources:
1. OU1/OU3 RI Report (USEPA, 2003)
2. EMA Phase II Report (1999)
3. USGS Tables (GC summary7-geotechnology.xls and lab-sample-log.xls)

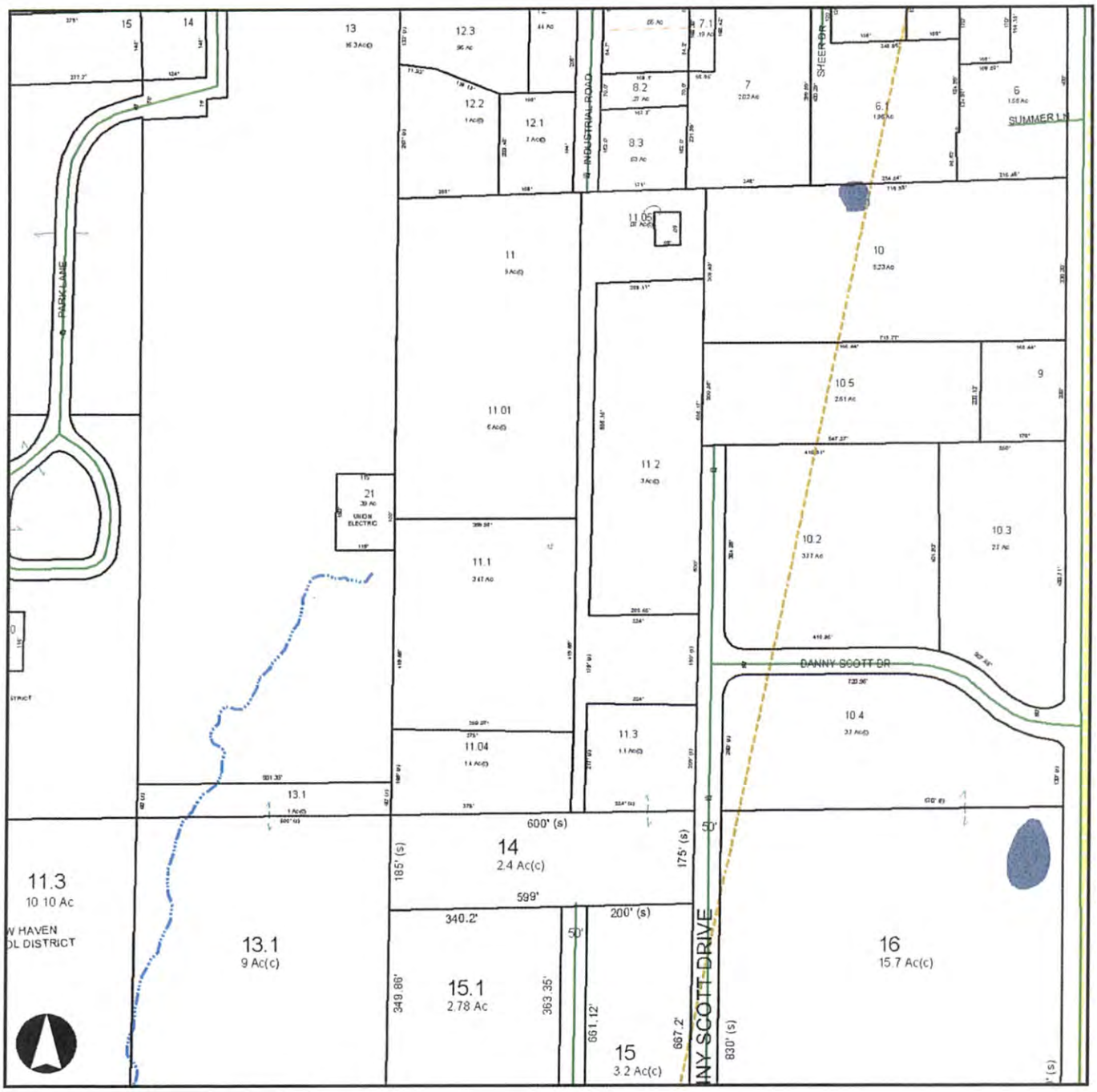
FIGURE 2.9

HISTORICAL PCE LEVELS IN GROUNDWATER
NEW HAVEN, MO
RIVERFRONT SUPERFUND SITE, OU2

PARSONS

999 OAKMONT PLAZA DRIVE, SUITE 420 - WESTMONT, IL 60559

Industrial Drive map



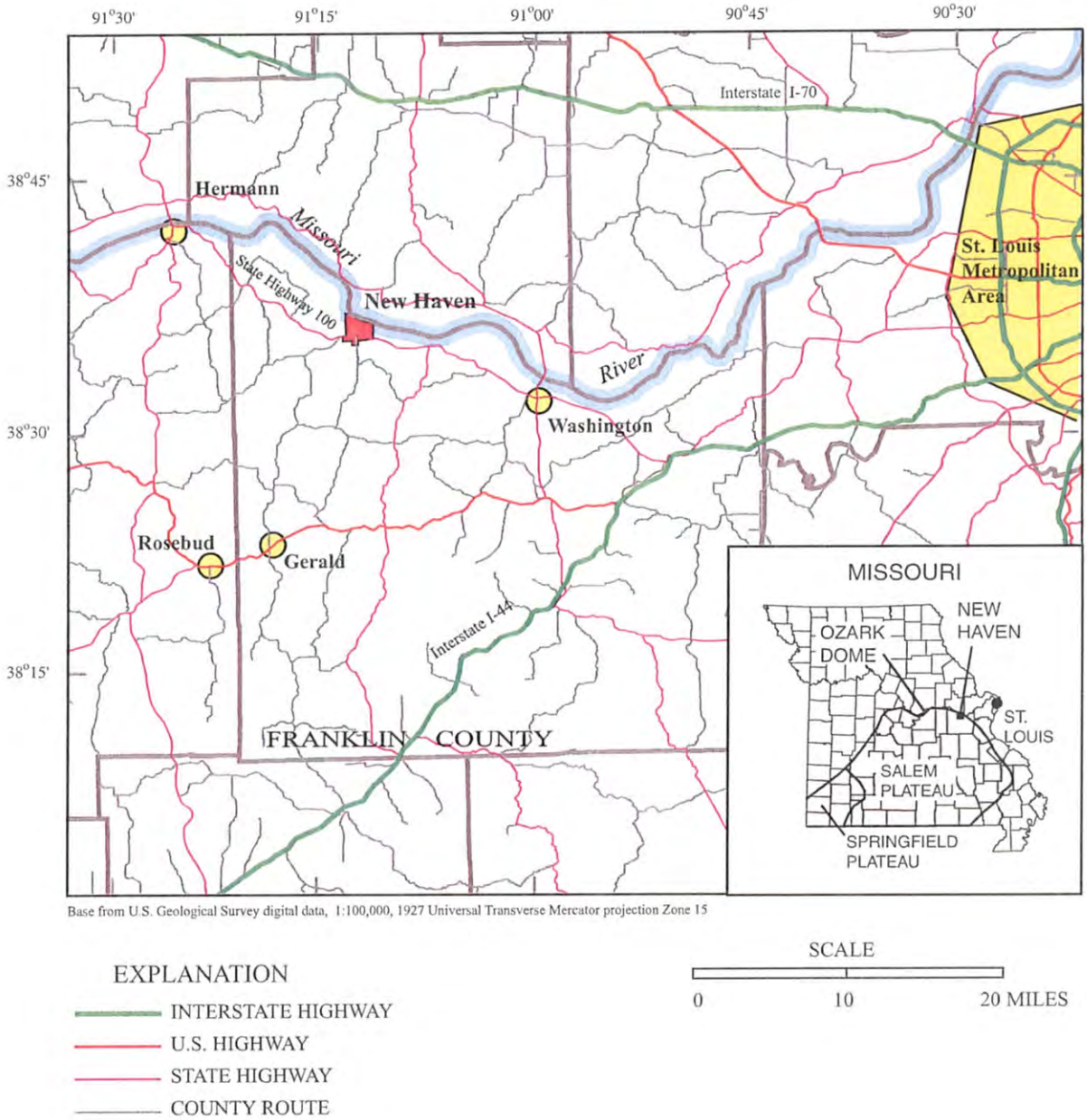


Figure 1-01. Location of the city of New Haven and Franklin County, Missouri.

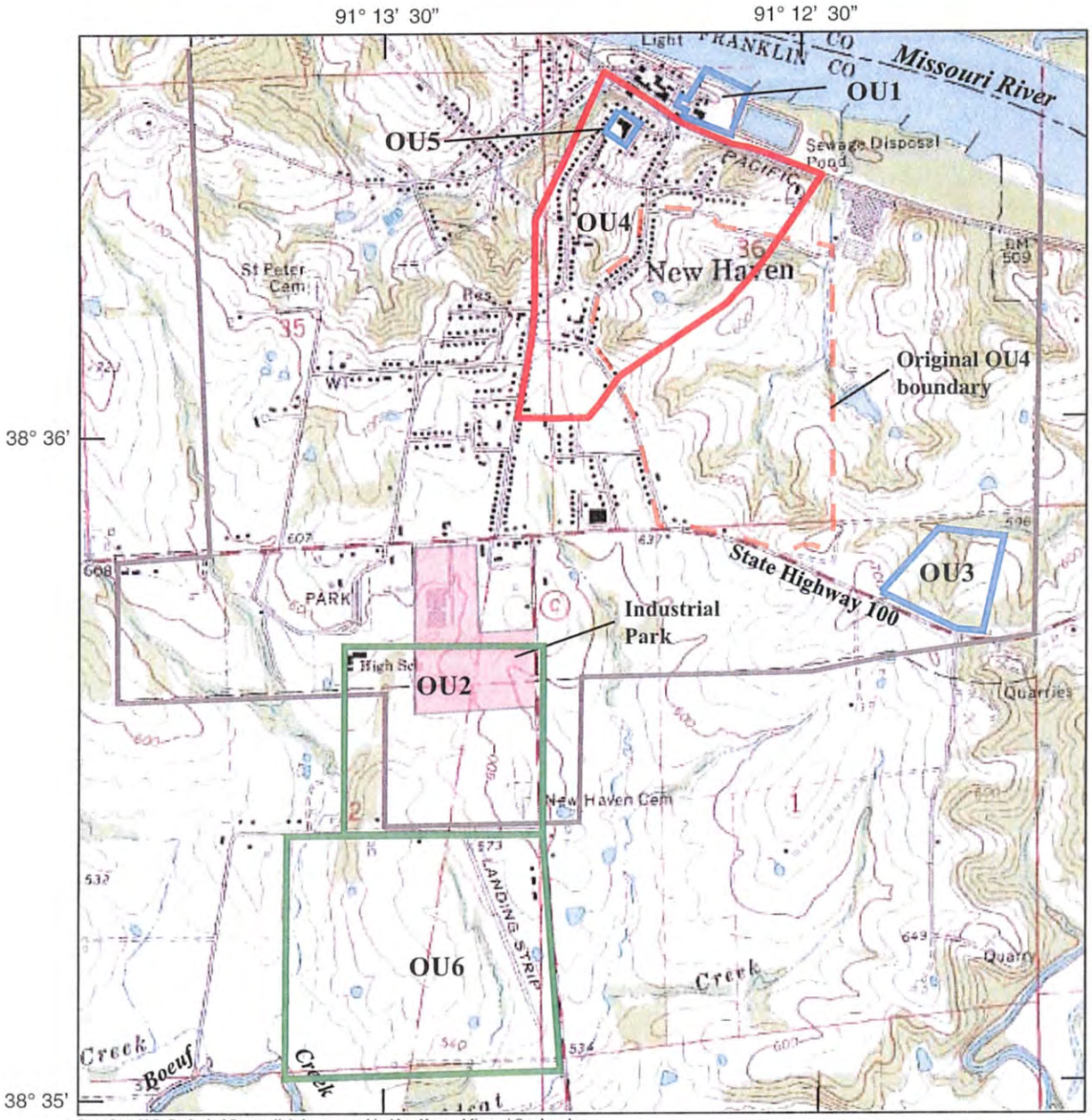
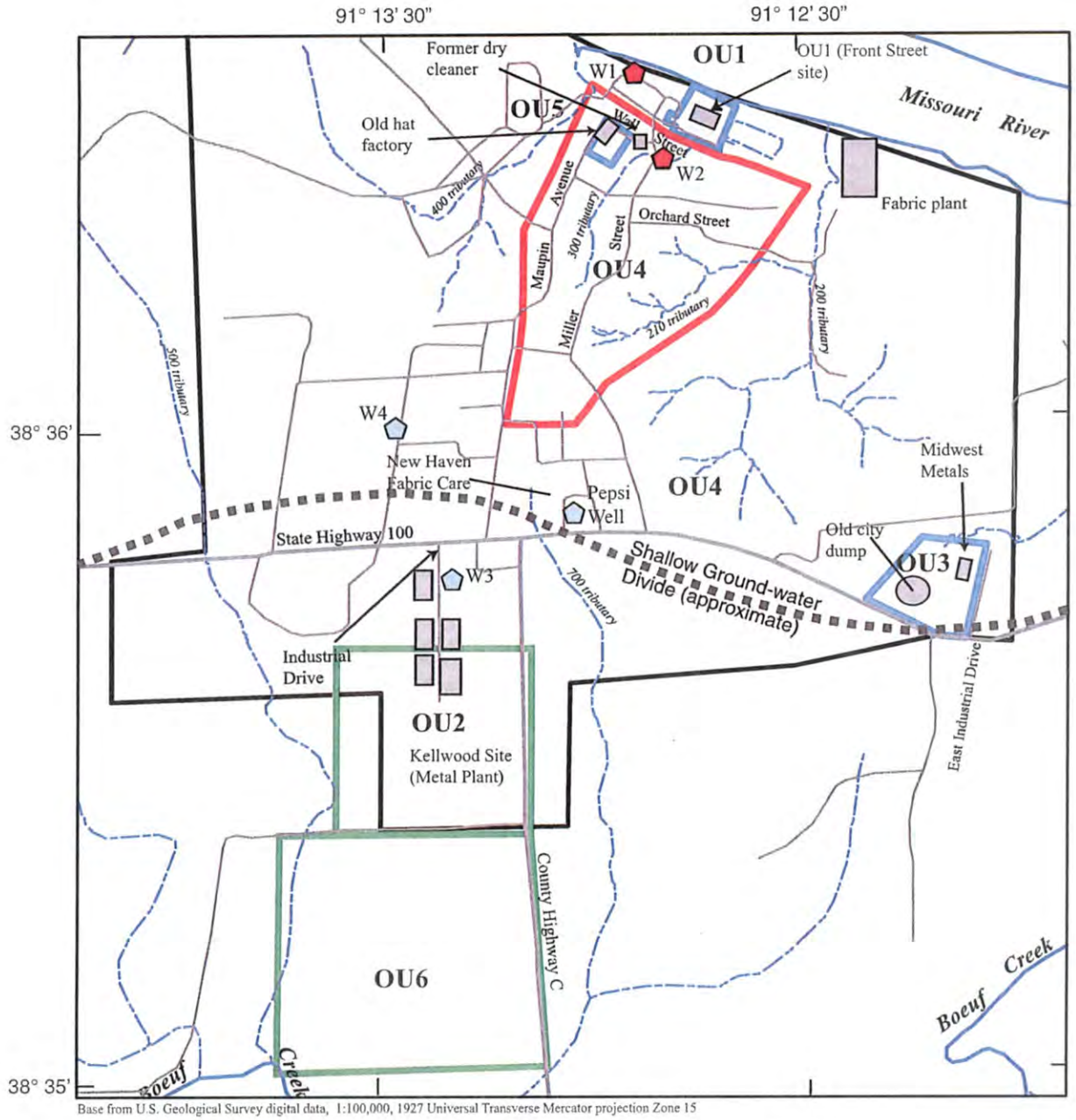


Figure 1-02. Topography in the New Haven Remedial Investigation (RI) study area and location of Operable Units (OUs).



Base from U.S. Geological Survey digital data, 1:100,000, 1927 Universal Transverse Mercator projection Zone 15

EXPLANATION

OPERABLE UNIT (OU) –Red indicates currently being investigated by the USEPA, blue indicates USEPA investigation completed, and green indicates responsible party lead investigation

NEW HAVEN CITY LIMIT

ROAD

HIGHWAY

STREAM

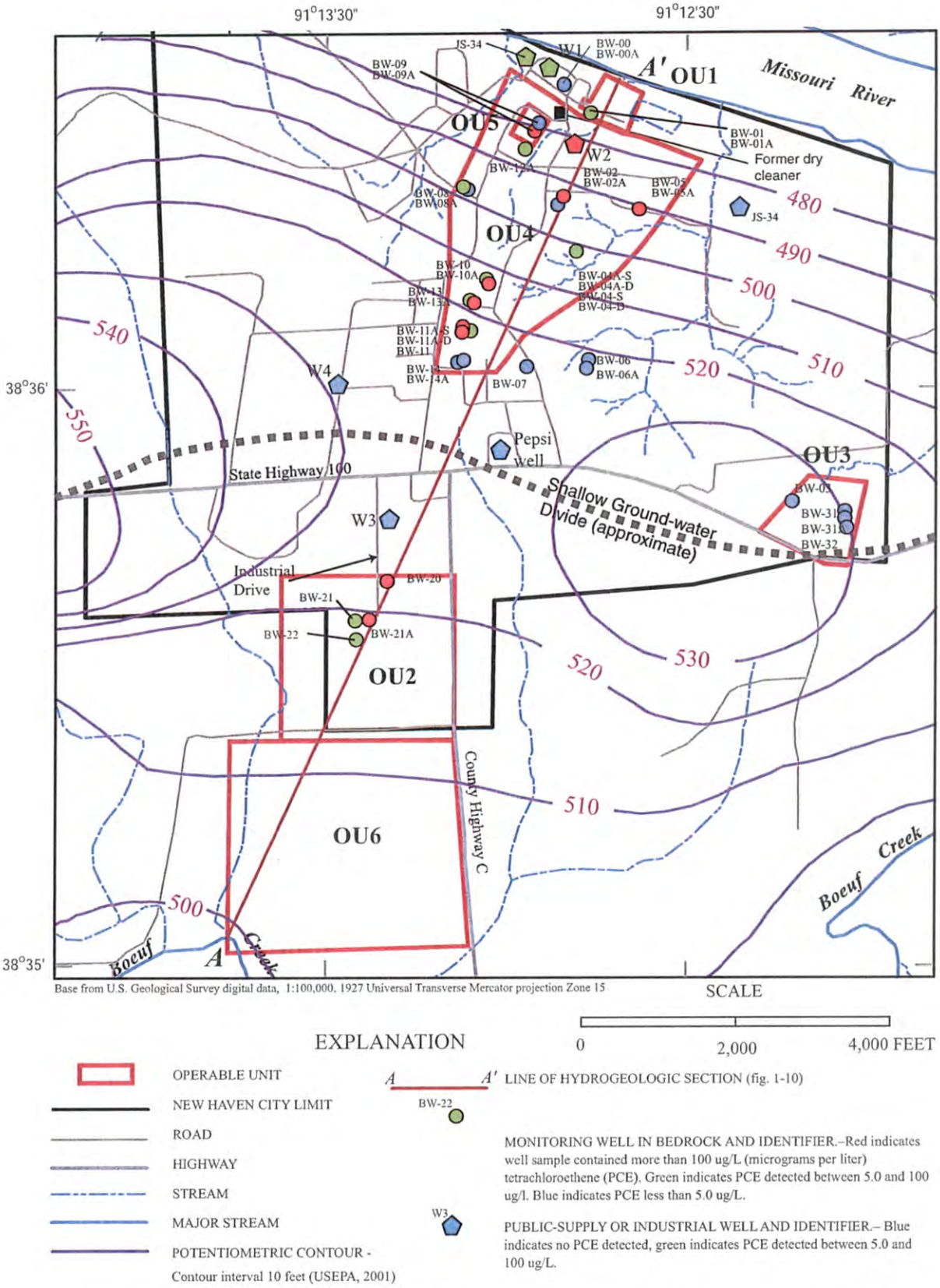
SCALE

0 2,000 4,000 FEET

MAJOR STREAM

W3 PUBLIC-SUPPLY OR INDUSTRIAL WELL –Red indicates well contaminated by PCE

Figure 1-03. Location of contaminated public-supply wells (W1 and W2) and new, uncontaminated public-supply wells (W3 and W4) in New Haven, Missouri.



Base from U.S. Geological Survey digital data, 1:100,000, 1927 Universal Transverse Mercator projection Zone 15

SCALE

0 2,000 4,000 FEET

EXPLANATION

OPERABLE UNIT

NEW HAVEN CITY LIMIT

ROAD

HIGHWAY

STREAM

MAJOR STREAM

POTENTIOMETRIC CONTOUR - Contour interval 10 feet (USEPA, 2001)

A — A' LINE OF HYDROGEOLOGIC SECTION (fig. 1-10)

BW-22 MONITORING WELL IN BEDROCK AND IDENTIFIER.–Red indicates well sample contained more than 100 ug/L (micrograms per liter) tetrachloroethene (PCE). Green indicates PCE detected between 5.0 and 100 ug/l. Blue indicates PCE less than 5.0 ug/L.

W3 PUBLIC-SUPPLY OR INDUSTRIAL WELL AND IDENTIFIER.– Blue indicates no PCE detected, green indicates PCE detected between 5.0 and 100 ug/L.

Figure 1-04. Location of U.S. Environmental Protection Agency (USEPA) monitoring wells in bedrock in New Haven, Missouri.

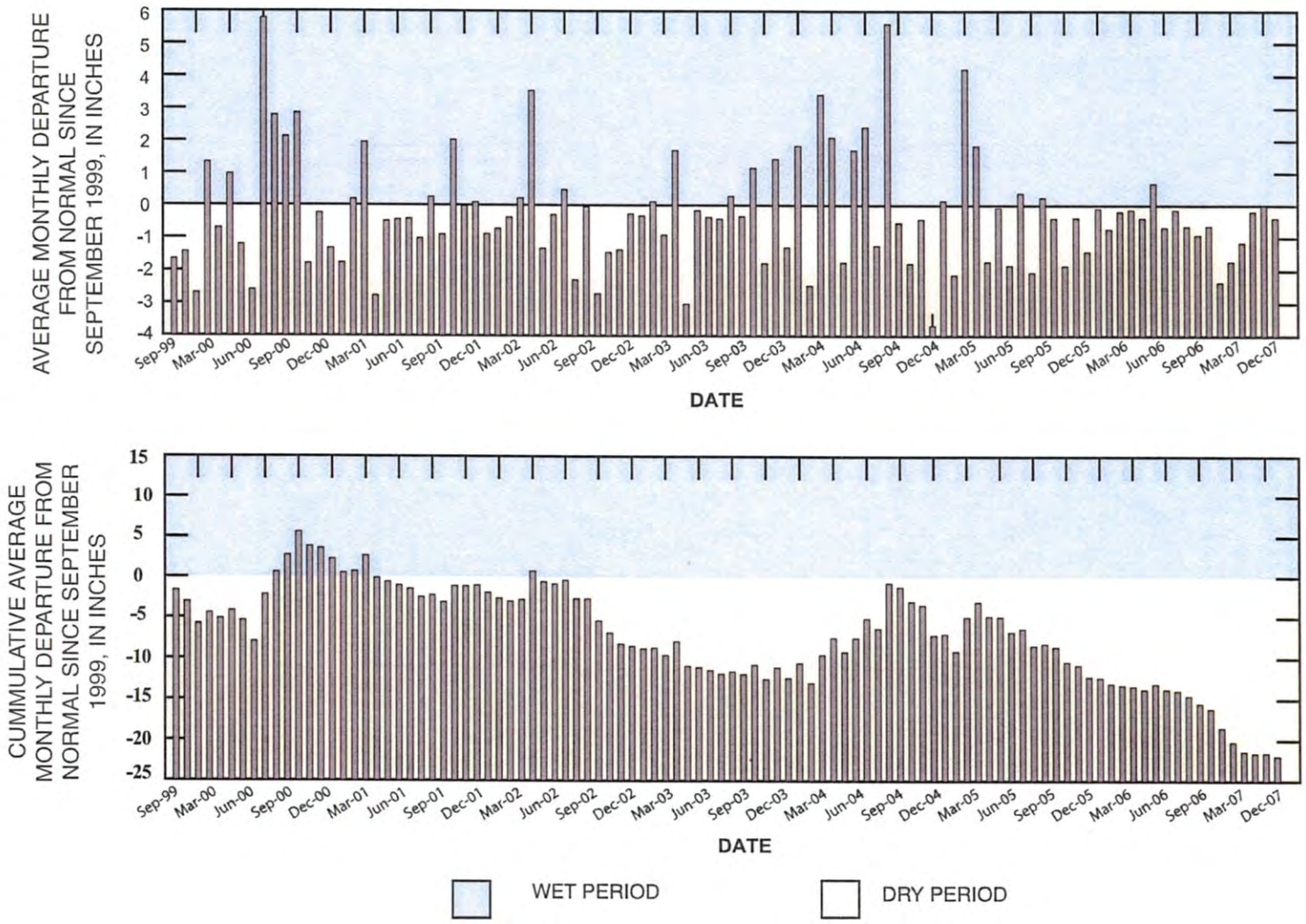


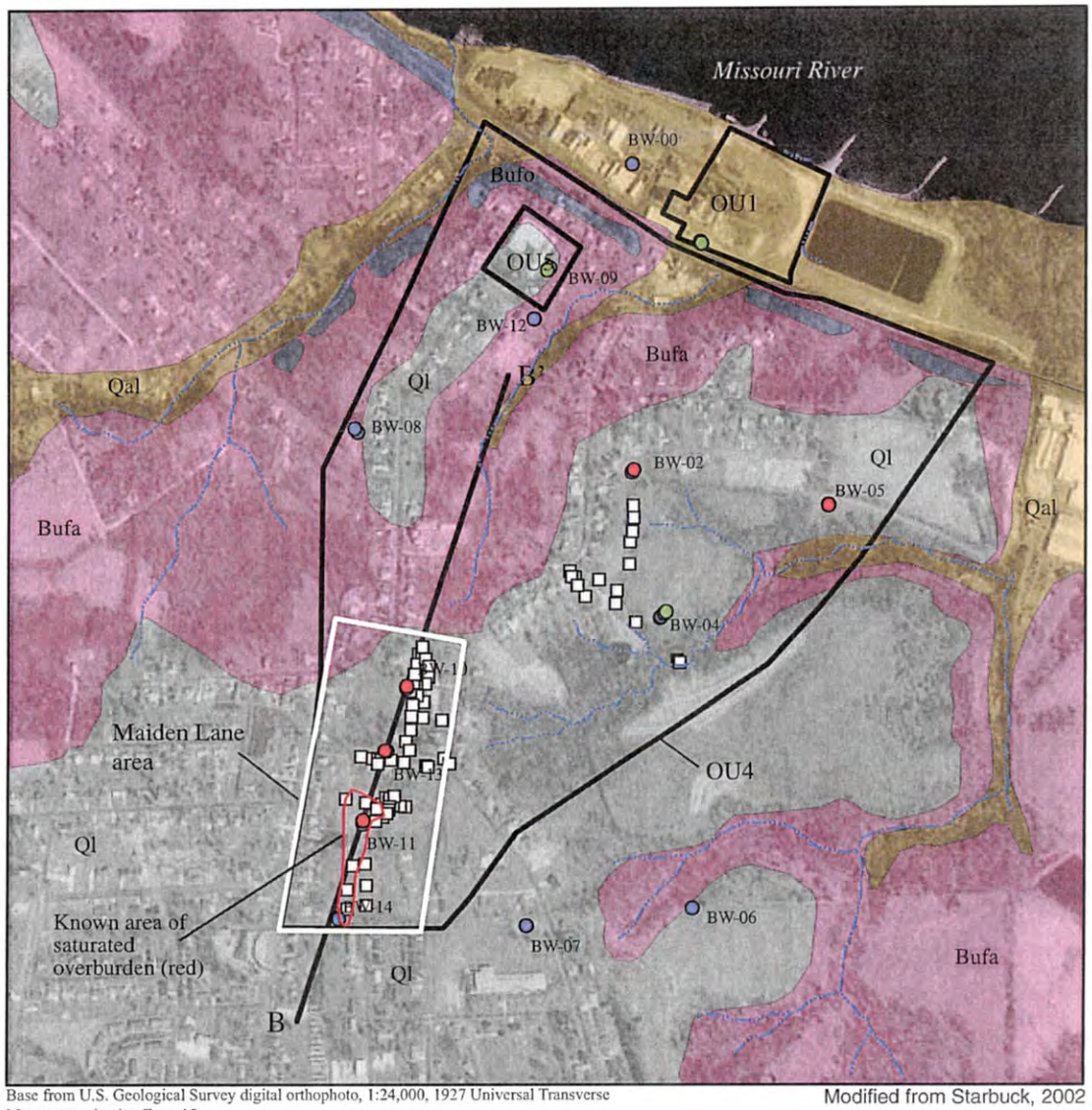
Figure 1-05. Average monthly departure from normal precipitation and cumulative average monthly departure from normal precipitation for Hermann and Rosebud, Missouri, since September 1999 (NOAA, 2008).

[ft, feet; gal/min, gallons per minute; thickness data from geologic logs of production wells in New Haven on file at the Missouri Department of Natural Resources Division of Geology and Land Survey and from Starbuck (2002)]

System	Formation	Approximate thickness (ft)	General lithology	General hydrologic properties
Ordovician	St. Peter Sandstone	less than 40	Fine-grained cemented quartz sandstone.	Yields of 10 to 50 gal/min where moderately thick.
	Powell Dolomite	0 to 95	Difficult to differentiate. Crystalline cherty dolostone with abundant thin shale partings and occasional thin sandstone beds. Thicker (2 to10 ft thick) sandstone beds in Cotter.	Adequate for small domestic supply. Yields of 5 to 10 gal/min locally. Less permeable than surrounding units and impedes downward water movement.
	Cotter Dolomite	85 to 280		
	Jefferson City	150 to 165		
	Roubidoux Formation	110 to 120	Cherty, sandy dolostone. Middle 20 to 30 ft is clean sandstone.	Normal yields of 15 to 50 gal/min. Target unit for newer domestic wells.
	upper Gasconade Dolomite	35 to 50	Massively bedded, crystalline dolostone.	Lower permeability than surrounding units.
	lower Gasconade Dolomite	200 to 240	Cherty dolostone with massive chert beds.	Combined yields of upper and lower units range from 50 to 75 gal/min.
	Gunter Sandstone Member of Gasconade Dolomite	35 to 50	Dolostone with less than 10 percent sand.	Normal yield of 40 to 50 gal/min, may exceed 200 gal/min in some locations.
Cambrian	Eminence Dolomite	145 to 180	Crystalline dolostone with less than 5 percent chert and sand.	Yields of 75 to 250 gal/min.
	Potosi Dolomite	greater than 170	Crystalline dolostone with abundant small solution cavities and quartz druse.	Target zone of most high capacity wells. Yields 200 to 1,000 gal/min.

Modified from Miller and Vandike (1997).

Figure 1-06. Geologic units of the Ozark aquifer in the vicinty of New Haven, Missouri.



Base from U.S. Geological Survey digital orthophoto, 1:24,000, 1927 Universal Transverse Mercator projection Zone 15

Modified from Starbuck, 2002

SCALE

0 750 1,500 FEET

EXPLANATION

QUATERNARY-AGE UNCONSOLIDATED DEPOSITES

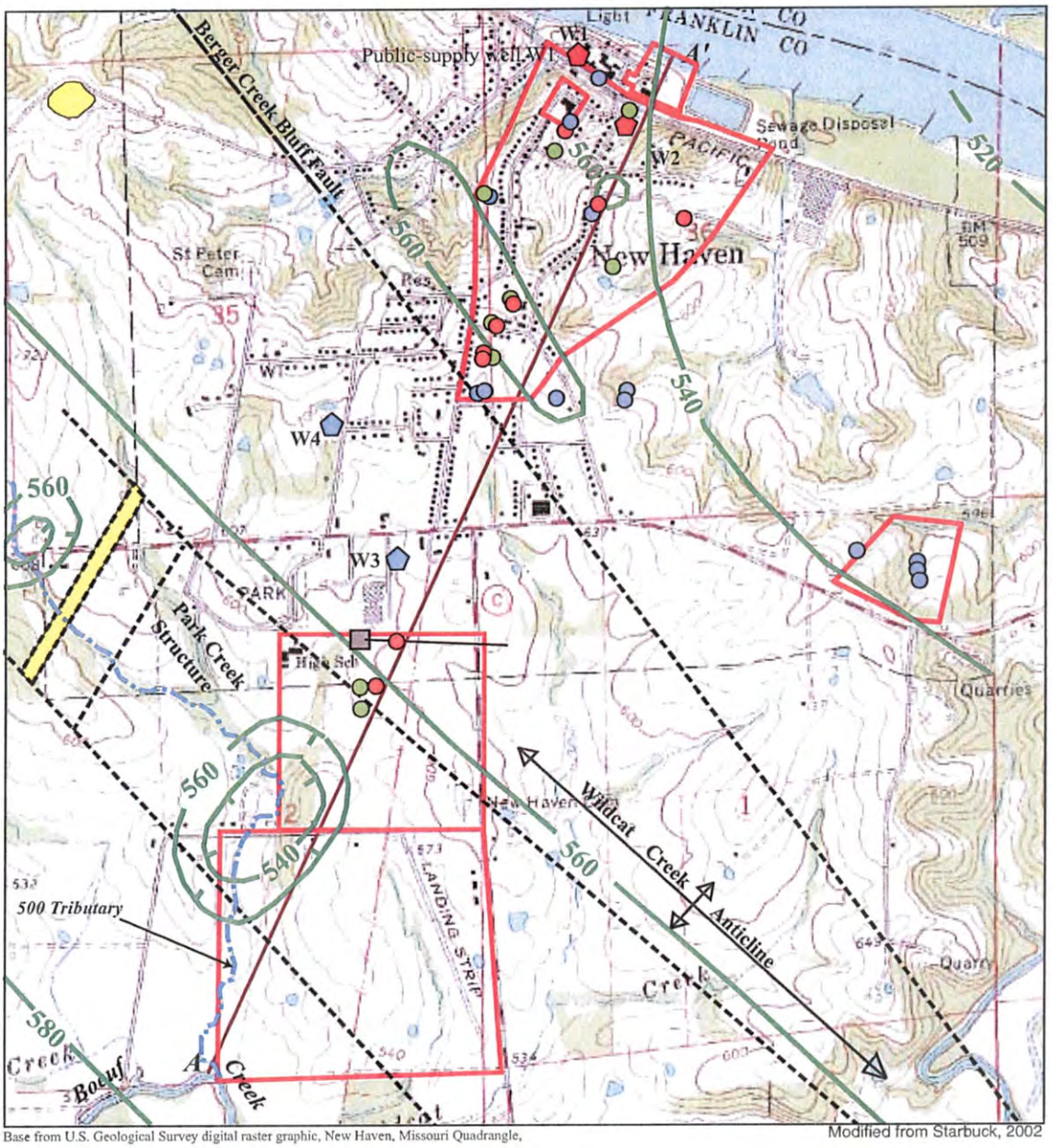
- Loess (Ql)
- Buffalo "a" Subunit (Bufa)
- Buffalo "o" Subunit (Bufo)
- Alluvium (Qal) or terrace

SOIL SAMPLE LOCATION

BEDROCK MONITORING WELL CLUSTER AND MAXIMUM PCE CONCENTRATION DETECTED

- BW-08 Not detected
- Less than 5 micrograms per liter
- Greater than 5 micrograms per liter

Figure 1-07. Unconsolidated surficial deposits at Operable Unit 4 and vicinity, New Haven, Missouri.



EXPLANATION

OPERABLE UNIT (OU)

ST. PETER SANDSTONE EXPOSURE –All other areas underlain by the undifferentiated Powell and Cotter Dolomites

FAULT

INFERRED FAULT

FOLD

SCALE

0 2,000 4,000 FEET

580 STRUCTURAL CONTOUR ON TOP OF THE UPPER SAND UNIT IN THE COTTER DOLOMITE –Contour interval 20 feet. Datum is NGVD29

A A' LINE OF HYDROGEOLOGIC SECTION (fig. 1-09)

Figure 1-08. Generalized geologic map of the New Haven area and structural contours on the top of the upper sandstone unit of the Cotter Dolomite, New Haven, Missouri.

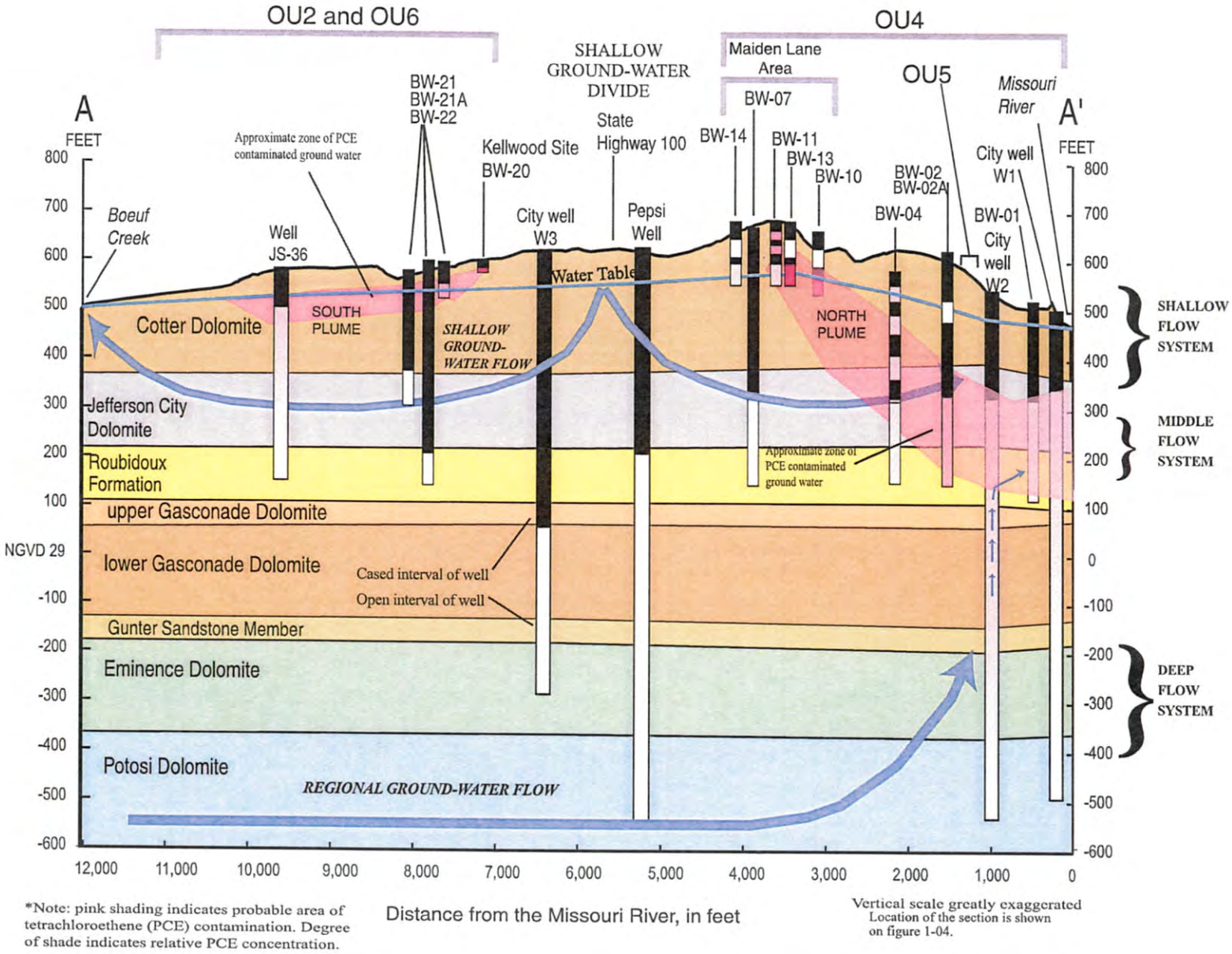
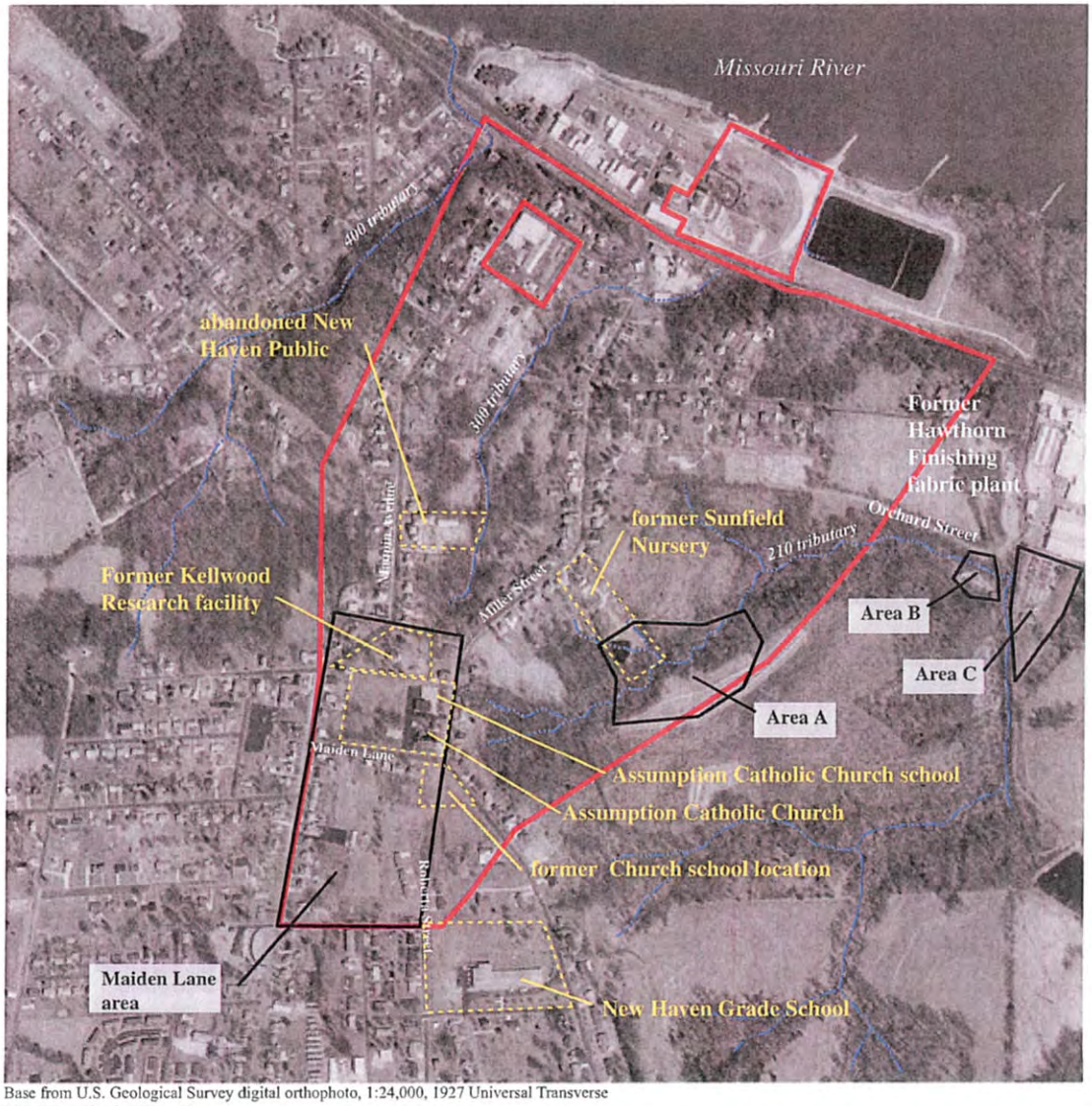


Figure 1-09. Generalized geohydrologic section A-A' in the New Haven, Missouri area.



Base from U.S. Geological Survey digital orthophoto, 1:24,000, 1927 Universal Transverse Mercator projection Zone 15

SCALE

0 750 1,500 FEET

EXPLANATION

OPERABLE UNIT BOUNDARY

SUSPECT DUMP AREAS AND FOCUS AREAS OF OU4 INVESTIGATION

NON-RESIDENTIAL LAND-USE PARCEL IN OU4

Figure 1-10. Major features of Operable Unit 4, New Haven, Missouri.

Appendix D

Historical Documentation

Appendix D-1

Aerial Photographs

American Recreation Products
113 Industrial Drive
New Haven, MO 63068

Inquiry Number: 3236999.4
January 17, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

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

EDR Aerial Photo Decade Package

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

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography January 17, 2012

Target Property:

113 Industrial Drive

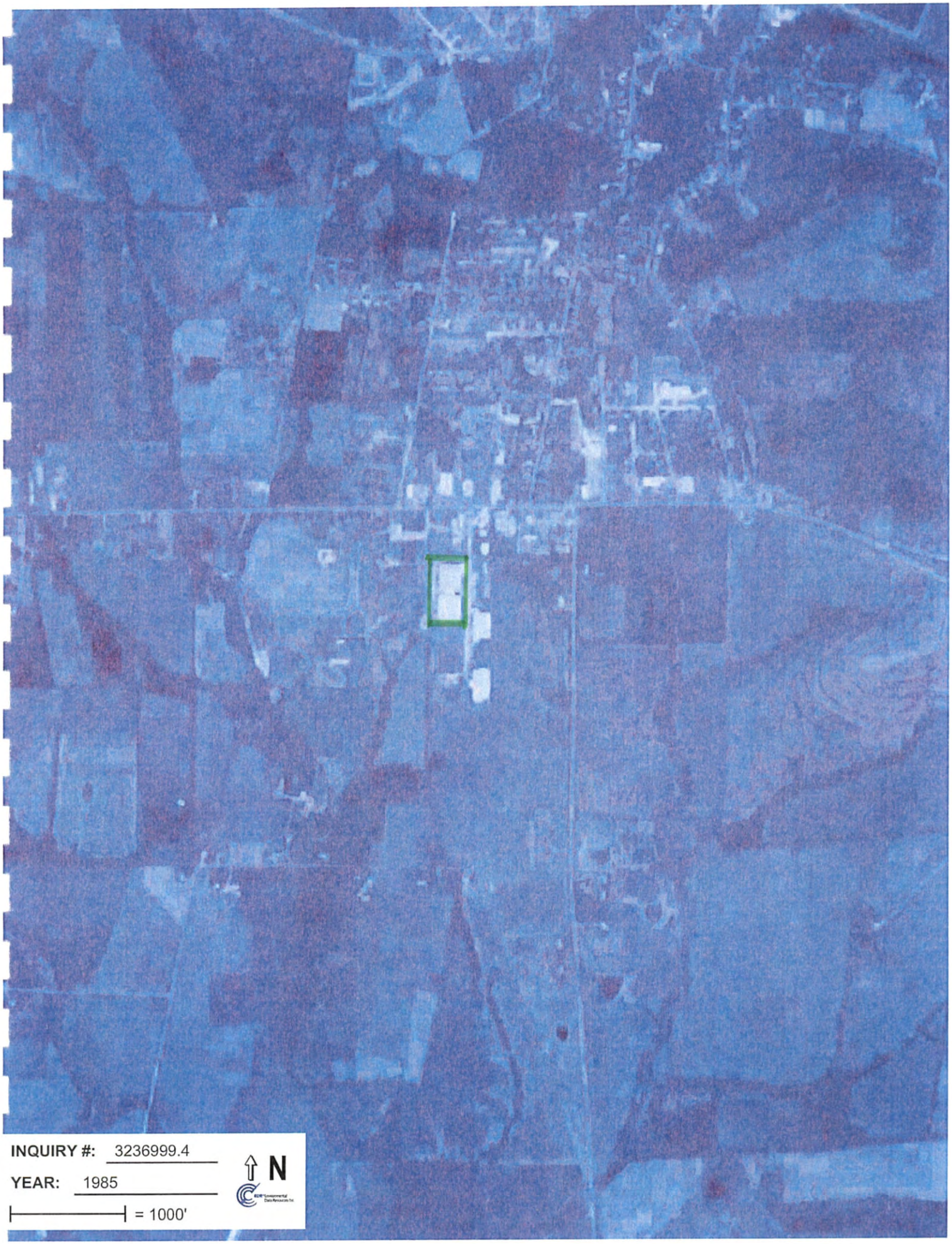
New Haven, MO 63068

Year	*Scale*	*Details*	*Source*
1945	Aerial Photograph. Scale: 1"=750'	Panel #: 38091-E2, New Haven, MO;/Flight Date: February 15, 1945	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 38091-E2, New Haven, MO;/Flight Date: April 17, 1970	EDR
1980	Aerial Photograph. Scale: 1"=1000'	Panel #: 38091-E2, New Haven, MO;/Flight Date: March 18, 1980	EDR
1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 38091-E2, New Haven, MO;/Flight Date: March 15, 1985	EDR
1991	Aerial Photograph. Scale: 1"=1000'	Panel #: 38091-E2, New Haven, MO;/Flight Date: March 25, 1991	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 38091-E2, New Haven, MO;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 38091-E2, New Haven, MO;/Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Panel #: 38091-E2, New Haven, MO;/Flight Year: 2007	EDR

INQUIRY #: 3236999.4
YEAR: 1945
= 750'
N

INQUIRY #: 3236999.4
YEAR: 1970
= 500'
N

INQUIRY #: 3236999.4
YEAR: 1980
= 1000'
N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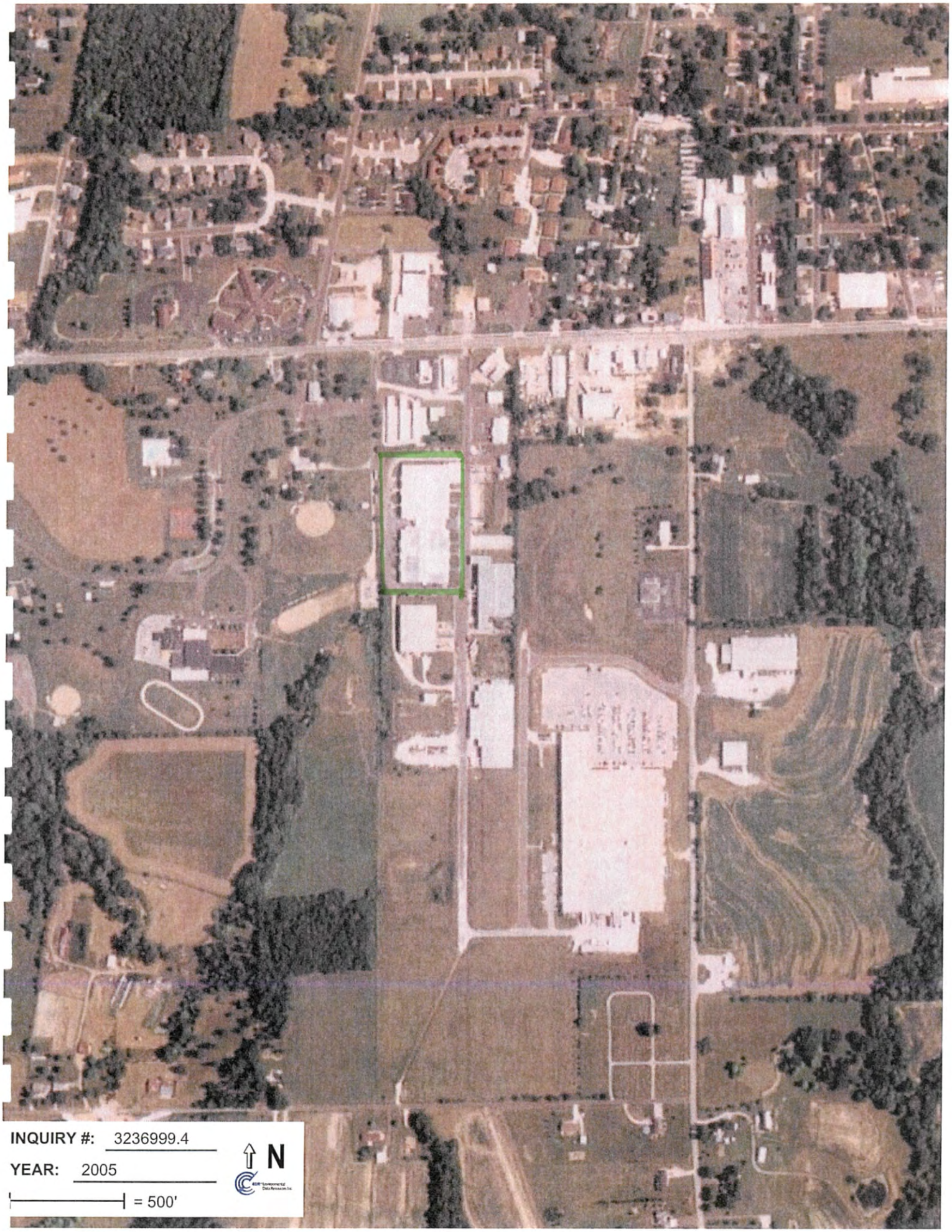
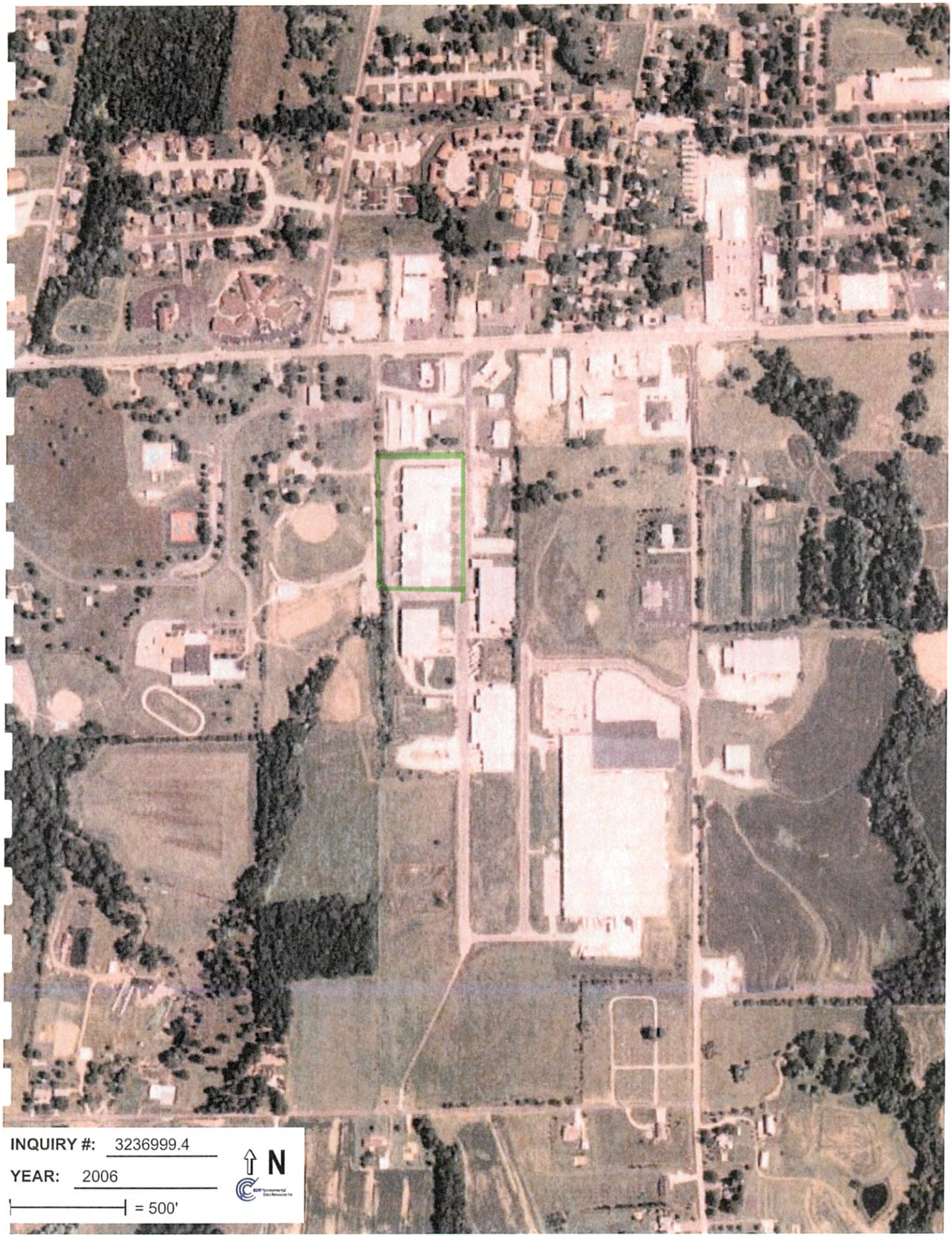
YEAR: 1985
= 1000'
N

INQUIRY #: 3236999.4
YEAR: 1991
= 1000'
N


INQUIRY #: 3236999.4
YEAR: 2005
= 500'
N


INQUIRY #: 3236999.4
YEAR: 2006
= 500'
N

INQUIRY #: 3236999.4
YEAR: 2007
= 500'
N

Appendix D-2

Topographic Maps

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
WALLACE B. HOWE, STATE GEOLOGIST

NEW HAVEN QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1973

Projection and 10,000-foot grid ticks: Missouri coordinate system, east zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue. 1927 North American datum

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND BY THE MISSOURI GEOLOGICAL SURVEY, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MISSOURI
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

NEW HAVEN, MO.
SW/4 WASHINGTON 15' QUADRANGLE
N3830—W9107.5/7.5

1973

AMS 7701 II SW—SERIES V878

Appendix E

Regulatory Records Documentation

American Recreation Products
113 Industrial Drive
New Haven, MO 63068

Inquiry Number: 3236999.2s
January 10, 2012

EDR Summary Radius Map Report

EDR® Environmental Data Resources Inc

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

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Map Findings	7
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Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-11
Physical Setting Source Map Findings	A-13
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

113 INDUSTRIAL DRIVE
NEW HAVEN, MO 63068

COORDINATES

Latitude (North):	38.5975000 - 38˚ 35' 51.00''
Longitude (West):	91.2227000 - 91˚ 13' 21.72''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	654777.1
UTM Y (Meters):	4273403.0
Elevation:	597 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	USGS 7.5 min quad index

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2009, 2010
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
113 INDUSTRIAL DRIVE
NEW HAVEN, MO 63068

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft.) DIRECTION
Reg	RIVERFRONT	PLUME, NEW HAVEN	NPL, Proposed NPL, CERCLIS, US ENG CONTROLS, US...	Same	1 ft.
A1	METALCRAFT ENTERPRIS	202 INDUSTRIAL DR	RCRA-NonGen	Higher	527, South
A2	KELLWOOD COMPANY	202 INDUSTRIAL DRIVE	SHWS, VCP	Higher	527, South
3	GENCORP INC	116 INDUSTRIAL DR	RCRA-NonGen, FINDS	Higher	900, North
4	TRANSPORTATION SPECI	101 SOUTHGATE INDUST	RCRA-NonGen, FINDS	Higher	983, ESE
B5	ROYAL LAUNDRY SYSTEM	101 INDUSTRIAL DR	DRYCLEANERS	Higher	1155, North
B6	CASEY'S #1658	9454 HWY 100	LUST, UST	Higher	1176, North
B7	CASEYS GENERAL STORE	9454 HIGHWAY 100	AST	Higher	1176, North
8	B N TS	118 HWY 100	LUST, UST, SPILLS	Higher	1757, NE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: A review of the NPL list, as provided by EDR, and dated 06/30/2011 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIVERFRONT	*PLUME, NEW HAVEN*	*0 - 1/8 (0.000 mi.)*	*0*	*7*

Proposed NPL: A review of the Proposed NPL list, as provided by EDR, and dated 06/30/2011 has revealed that there is 1 Proposed NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIVERFRONT	*PLUME, NEW HAVEN*	*0 - 1/8 (0.000 mi.)*	*0*	*7*

Federal CERCLIS list

CERCLIS: A review of the CERCLIS list, as provided by EDR, and dated 02/25/2011 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIVERFRONT	*PLUME, NEW HAVEN*	*0 - 1/8 (0.000 mi.)*	*0*	*7*

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A review of the US ENG CONTROLS list, as provided by EDR, and dated 12/30/2011 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIVERFRONT	*PLUME, NEW HAVEN*	*0 - 1/8 (0.000 mi.)*	*0*	*7*

US INST CONTROL: A review of the US INST CONTROL list, as provided by EDR, and dated 12/30/2011 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIVERFRONT	*PLUME, NEW HAVEN*	*0 - 1/8 (0.000 mi.)*	*0*	*7*

State- and tribal - equivalent CERCLIS

SHWS: A review of the SHWS list, as provided by EDR, and dated 03/08/2011 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KELLWOOD COMPANY	*202 INDUSTRIAL DRIVE*	*S 0 - 1/8 (0.100 mi.)*	*A2*	*7*

State and tribal leaking storage tank lists

LUST: A review of the LUST list, as provided by EDR, and dated 09/14/2011 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CASEY'S #1658 Date Of NFA Letter From DNR: 11/21/2000 Date Of NFA Letter From DNR: 2/23/2009	*9454 HWY 100*	*N 1/8 - 1/4 (0.223 mi.)*	*B6*	*8*
B N TS Date Of NFA Letter From DNR: 8/13/2010	*118 HWY 100*	*NE 1/4 - 1/2 (0.333 mi.)*	*8*	*8*

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: A review of the UST list, as provided by EDR, and dated 09/14/2011 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CASEY'S #1658	***9454 HWY 100***	***N 1/8 - 1/4 (0.223 mi.)***	***B6***	***8***

AST: A review of the AST list, as provided by EDR, and dated 10/20/2011 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CASEYS GENERAL STORE	9454 HIGHWAY 100	N 1/8 - 1/4 (0.223 mi.)	B7	8

State and tribal voluntary cleanup sites

VCP: A review of the VCP list, as provided by EDR, and dated 11/21/2011 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KELLWOOD COMPANY	***202 INDUSTRIAL DRIVE***	***S 0 - 1/8 (0.100 mi.)***	***A2***	***7***

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA-NonGen: A review of the RCRA-NonGen list, as provided by EDR, and dated 06/15/2011 has revealed that there are 3 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
METALCRAFT ENTERPRIS	202 INDUSTRIAL DR	S 0 - 1/8 (0.100 mi.)	A1	7
GENCORP INC	***116 INDUSTRIAL DR***	***N 1/8 - 1/4 (0.170 mi.)***	***3***	***7***
TRANSPORTATION SPECI	***101 SOUTHGATE INDUST***	***ESE 1/8 - 1/4 (0.186 mi.)***	***4***	***7***

ROD: A review of the ROD list, as provided by EDR, and dated 09/28/2011 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIVERFRONT	***PLUME, NEW HAVEN***	***0 - 1/8 (0.000 mi.)***	***0***	***7***

EXECUTIVE SUMMARY

DRYCLEANERS: A review of the DRYCLEANERS list, as provided by EDR, and dated 09/19/2011 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

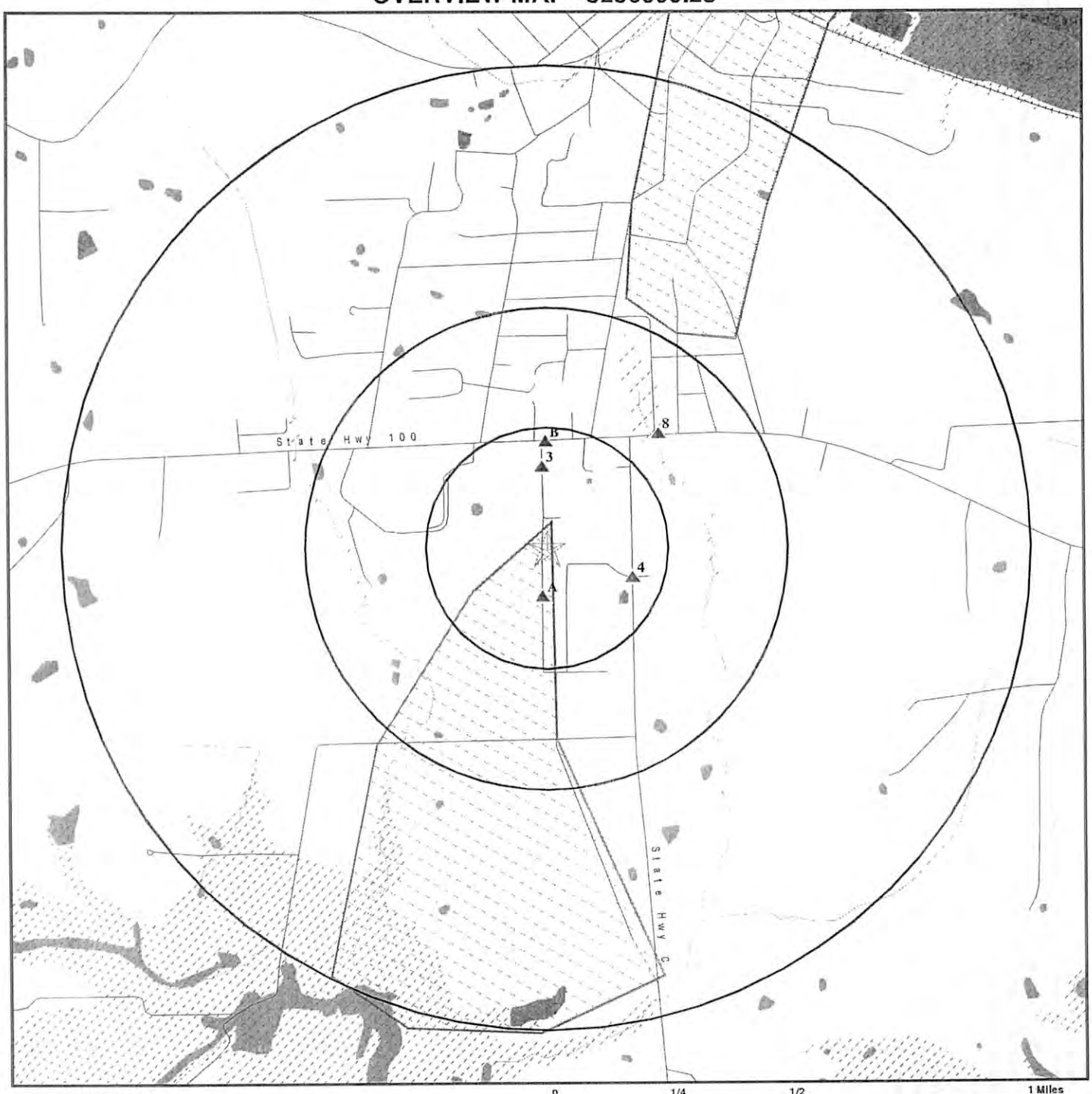
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROYAL LAUNDRY SYSTEM	101 INDUSTRIAL DR	N 1/8 - 1/4 (0.219 mi.)	B5	8

Count: 8 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRANKLIN COUNTY	S106614836	WASHINGTON SANITARY LANDFILL	BLUFF ROAD, ONE-HALF MILE N. O		HIST LF, FINANCIAL ASSURANCE
NEW HAVEN	1007109404	J & H SERVICE STATION	118 HWY 100	63068	RCRA-NonGen
NEW HAVEN	A100341928	NEW HAVEN AMOCO	HWY 100	63068	AST
NEW HAVEN	1005424935	BACKES-TOELKE AGRI PRODUCTS INC	RT 4 BOX 144	63068	SSTS
NEW HAVEN	U003795139	MFA OIL COMPANY BULK PLANT	HWY C	63068	AST
NEW HAVEN	1007108274	NEW HAVEN HOME OIL CO	102 W HWY 100	63068	RCRA-NonGen
NEW HAVEN	1004741714	CASEYS GENERAL STORE #1658	106 W HWY 100	63068	RCRA-NonGen, FINDS
STONY HILL	S108574150	AMERICAN HALAL MEAT	4342 HWY E	63068	NPDES

OVERVIEW MAP - 3236999.2s



0 1/4 1/2 1 Miles

- ☆ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

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

SITE NAME: American Recreation Products ADDRESS: 113 Industrial Drive New Haven MO 63068 LAT/LONG: 38.5975 / 91.2227	CLIENT: Barr Engineering CONTACT: Rob Murphy INQUIRY #: 3236999.2s DATE: January 10, 2012 12:18 pm

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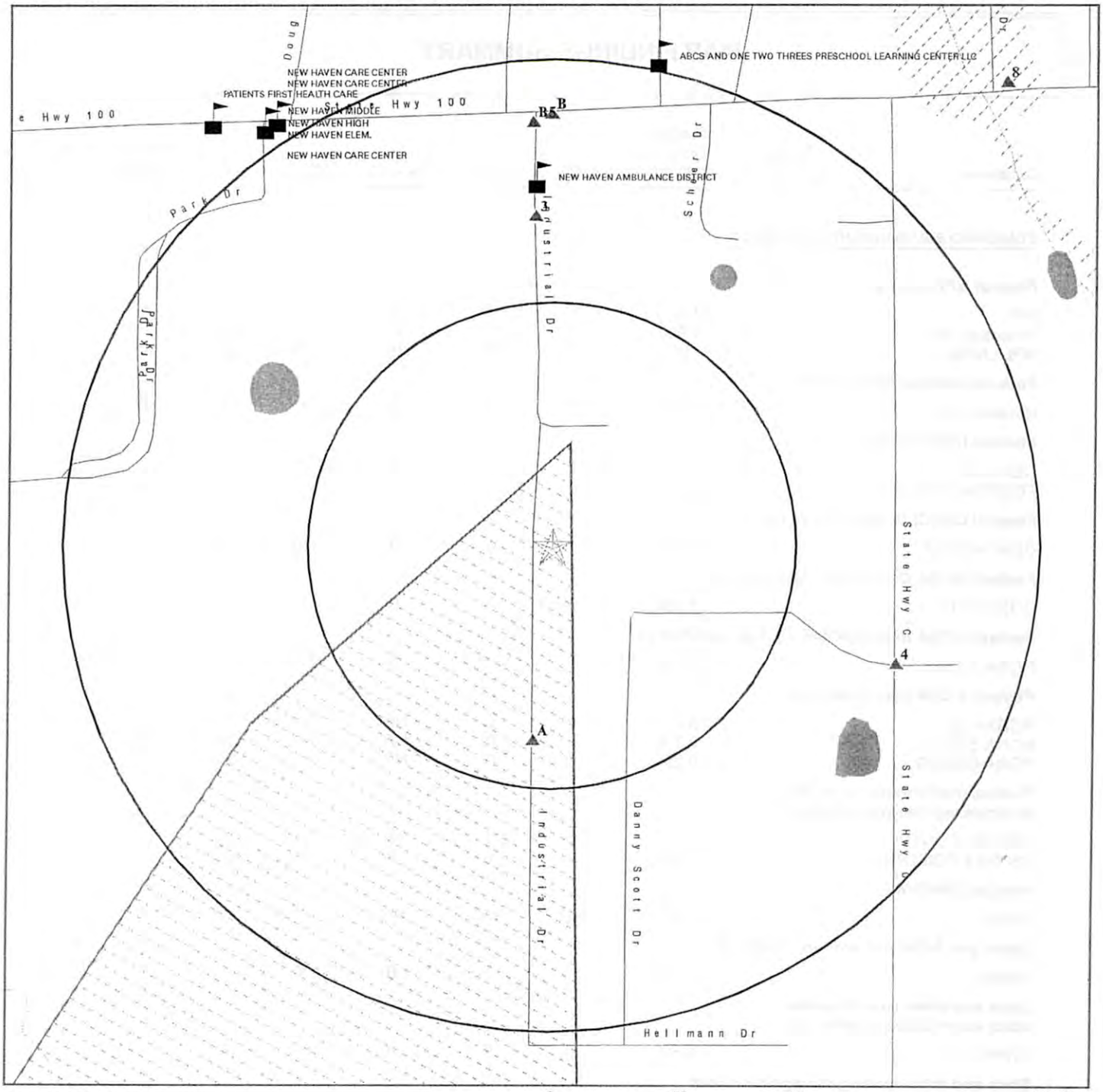
DETAIL MAP - 3236999.2s



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

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

SITE NAME: American Recreation Products ADDRESS: 113 Industrial Drive New Haven MO 63068 LAT/LONG: 38.5975 / 91.2227	CLIENT: Barr Engineering CONTACT: Rob Murphy INQUIRY #: 3236999.2s DATE: January 10, 2012 12:18 pm

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MAP FINDINGS SUMMARY

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

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	1	NR	NR	NR	1
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL		0.500	0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP		0.500	0	0	0	NR	NR	0
VCP		0.500	1	0	0	NR	NR	1
State and tribal Brownfields sites								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
DEL SHWS		1.000	0	0	0	0	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	1	2	NR	NR	NR	3
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	1	0	0	0	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	1	NR	NR	NR	1
MO RRC		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

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	Site	Database(s)	EDR ID Number EPA ID Number
NPL Region < 1/8 1 ft.	RIVERFRONT PLUME, NEW HAVEN NEW HAVEN, MO 63068 Additional polygons located at: NNE 2758 ft. Click here for full text details	NPL Proposed NPL CERCLIS US ENG CONTROLS US INST CONTROL ROD FINDS	1000116925 MOD981720246
A1 South < 1/8 0.100 mi. 527 ft. Relative: Higher	METALCRAFT ENTERPRISES INC 202 INDUSTRIAL DR NEW HAVEN, MO 63068 Click here for full text details	RCRA-NonGen	1000293196 MOD980854996
A2 South < 1/8 0.100 mi. 527 ft. Relative: Higher	KELLWOOD COMPANY 202 INDUSTRIAL DRIVE NEW HAVEN, MO 63068 Click here for full text details	SHWS VCP	S105122062 N/A
3 North 1/8-1/4 0.170 mi. 900 ft. Relative: Higher	GENCORP INC 116 INDUSTRIAL DR NEW HAVEN, MO 63068 Click here for full text details	RCRA-NonGen FINDS	1004740926 MOD985822261
4 ESE 1/8-1/4 0.186 mi. 983 ft. Relative: Higher	TRANSPORTATION SPECIALIST 101 SOUTHGATE INDUSTRIAL PARK NEW HAVEN, MO 63068 Click here for full text details	RCRA-NonGen FINDS	1000830516 MOD985817931

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B5 **North** **1/8-1/4** **0.219 mi.** **1155 ft.** **Relative:** **Higher**	**ROYAL LAUNDRY SYSTEMS** **101 INDUSTRIAL DR** **NEW HAVEN, MO 63068** Click here for full text details	**DRYCLEANERS**	**S106877609** **N/A**
B6 **North** **1/8-1/4** **0.223 mi.** **1176 ft.** **Relative:** **Higher**	**CASEY'S #1658** **9454 HWY 100** **NEW HAVEN, MO 63068** Click here for full text details **LUST** Date Of NFA Letter From DNR: 11/21/2000 Date Of NFA Letter From DNR: 2/23/2009 **UST** Tank Status: Removed Tank Status: Removed Tank Status: Curently in use Tank Status: Curently in use	**LUST** **UST**	**U004125430** **N/A**
B7 **North** **1/8-1/4** **0.223 mi.** **1176 ft.** **Relative:** **Higher**	**CASEYS GENERAL STORE** **9454 HIGHWAY 100** **NEW HAVEN, MO 63068** Click here for full text details	**AST**	**A100341922** **N/A**
8 **NE** **1/4-1/2** **0.333 mi.** **1757 ft.** **Relative:** **Higher**	**B N TS** **118 HWY 100** **NEW HAVEN, MO 63068** Click here for full text details **LUST** Date Of NFA Letter From DNR: 8/13/2010 **UST** Tank Status: Removed Tank Status: Removed Tank Status: Removed Tank Status: Removed	**LUST** **UST** **SPILLS**	**U003757240** **N/A**

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
MO	AIRS	Permit Facility Listing	Department of Natural Resources	09/22/2011	09/23/2011	10/21/2011
MO	AST	Aboveground Petroleum Storage Tanks	Department of Agriculture	10/20/2011	10/20/2011	11/22/2011
MO	AUL	Sites with Controls	Department of Natural Resources	11/21/2011	11/22/2011	11/30/2011
MO	BROWNFIELDS	Brownfields Site List	Department of Natural Resources	11/21/2011	11/22/2011	11/30/2011
MO	CDL	Environmental Emergency Response System	Department of Natural Resources	08/22/2011	09/21/2011	10/21/2011
MO	COAL ASH	Coal Ash Disposal Sites	Department of Natural Resources	05/13/2010	06/03/2010	06/29/2010
MO	DEL SHWS	Registry Sites Withdrawn or Deleted	Department of Natural Resources	07/08/2010	07/12/2010	08/17/2010
MO	DRYCLEANERS	Drycleaners in Missouri Listing	Department of Natural Resources	09/19/2011	09/21/2011	10/21/2011
MO	FINANCIAL ASSURANCE 1	Financial Assurance Information Listing	Department of Natural Resources	09/13/2011	09/16/2011	10/21/2011
MO	FINANCIAL ASSURANCE 2	Financial Assurance Information Listing	Department of Natural Resources	09/13/2011	09/14/2011	10/18/2011
MO	HIST LF	Solid Waste Facility Database List	Department of Natural Resources	04/12/2005	07/19/2006	08/18/2006
MO	HWS DETAIL	Registry Annual Report	Department of Natural Resources	06/30/2010	03/18/2011	04/13/2011
MO	LAST	Leaking Aboveground Storage Tanks	Department of Natural Resources	09/14/2011	11/16/2011	11/21/2011
MO	LUST	Leaking Underground Storage Tanks	Department of Natural Resources	09/14/2011	11/16/2011	11/21/2011
MO	NPDES	Permitted Facility Listing	Department of Natural Resources	10/21/2011	12/01/2011	12/05/2011
MO	RRC	Certified Hazardous Waste Resource Recovery Facilities	Department of Natural Resources	09/12/2011	09/28/2011	10/21/2011
MO	SHWS	Registry of Confirmed Abandoned or Uncontrolled Hazardous Wa	Department of Natural Resources	03/08/2011	03/10/2011	04/13/2011
MO	SPILLS	Environmental Response Tracking Database	Department of Natural Resources	08/22/2011	09/21/2011	10/21/2011
MO	SWF/LF	Solid Waste Facility List	Department of Natural Resources	09/14/2011	09/15/2011	10/21/2011
MO	SWRCY	Solid Waste Recycling Facilities	Department of Natural Resources	11/05/2009	12/23/2009	01/21/2010
MO	UIC	Underground Injection Wells Database	Department of Natural Resources	09/05/2011	11/02/2011	12/13/2011
MO	UST	Petroleum Storage Tanks	Department of Natural Resources	09/14/2011	11/16/2011	11/21/2011
MO	VCP	Sites Participating in the Voluntary Cleanup Program	Department of Natural Resources	11/21/2011	11/22/2011	11/30/2011
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2009	03/01/2011	05/02/2011
US	CERCLIS	Comprehensive Environmental Response, Compensation, and Liab	EPA	02/25/2011	03/01/2011	05/02/2011
US	CERCLIS-NFRAP	CERCLIS No Further Remedial Action Planned	EPA	02/25/2011	03/01/2011	05/02/2011
US	COAL ASH DOE	Sleam-Electric Plan Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	08/17/2010	01/03/2011	03/21/2011
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/01/2011	11/18/2011	01/10/2012
US	CORRACTS	Corrective Action Report	EPA	08/19/2011	08/31/2011	01/10/2012
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DELISTED NPL	National Priority List Deletions	EPA	06/30/2011	07/12/2011	09/29/2011
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 Transporation, Office of Pipeli	07/29/2011	08/09/2011	11/11/2011
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	10/03/2011	10/04/2011	11/11/2011
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/10/2010	01/11/2011	02/16/2011
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	01/01/2010	02/16/2010	04/12/2010
US	FINDS	Facility Index System/Facility Registry System	EPA	08/02/2011	09/13/2011	01/10/2012
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
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	12/31/2009	08/12/2010	12/02/2010
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	10/04/2011	10/04/2011	11/11/2011
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	07/20/2011	11/10/2011	01/10/2012
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2011	11/01/2011	11/11/2011

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/02/2011	11/04/2011	11/11/2011
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	09/12/2011	09/13/2011	11/11/2011
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	11/01/2011	11/21/2011	01/10/2012
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	08/18/2011	08/19/2011	09/13/2011
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	12/05/2011	12/07/2011	01/10/2012
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	12/31/2005	12/08/2006	01/11/2007
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2011	11/01/2011	11/11/2011
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/02/2011	11/04/2011	11/11/2011
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	12/14/2011	12/15/2011	01/10/2012
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	07/01/2011	08/26/2011	09/13/2011
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	05/10/2011	05/11/2011	06/14/2011
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	11/01/2011	11/21/2011	01/10/2012
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	08/18/2011	08/19/2011	09/13/2011
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	11/28/2011	11/29/2011	01/10/2012
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	08/04/2011	10/04/2011	11/11/2011
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	09/09/2011	09/16/2011	09/29/2011
US	LUCIS	Land Use Control Information System	Department of the Navy	12/09/2005	12/11/2006	01/11/2007
US	MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/18/2011	09/08/2011	09/29/2011
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	06/21/2011	07/15/2011	09/13/2011
US	Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	NPL	National Priority List	EPA	06/30/2011	07/12/2011	09/29/2011
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	11/01/2010	11/10/2010	02/16/2011
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	02/01/2011	10/19/2011	01/10/2012
US	Proposed NPL	Proposed National Priority List Sites	EPA	06/30/2011	07/12/2011	09/29/2011
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	01/11/2011	01/13/2011	02/16/2011
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	06/15/2011	07/07/2011	08/08/2011
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	06/15/2011	07/07/2011	08/08/2011
US	RCRA-NonGen	RCRA - Non Generators	Environmental Protection Agency	06/15/2011	07/07/2011	08/08/2011
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	06/15/2011	07/07/2011	08/08/2011
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	06/15/2011	07/07/2011	08/08/2011
US	ROD	Records Of Decision	EPA	09/28/2011	12/14/2011	01/10/2012
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	03/07/2011	03/09/2011	05/02/2011
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2009	09/01/2011	01/10/2012
US	TSCA	Toxic Substances Control Act	EPA	12/31/2006	09/29/2010	12/02/2010
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	09/14/2010	10/21/2010	01/28/2011
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/27/2011	06/27/2011	09/13/2011
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	10/07/2011	12/09/2011	01/10/2012
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	12/30/2011	12/30/2011	01/10/2012
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	09/01/2007	11/19/2008	03/30/2009
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	12/30/2011	12/30/2011	01/10/2012

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Protection	11/21/2011	11/22/2011	12/22/2011
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	11/01/2011	11/08/2011	12/22/2011
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2008	12/01/2009	12/14/2009
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2010	06/24/2011	06/30/2011
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2010	08/19/2011	09/15/2011
US	Oil/Gas Pipelines	GeoData Digital Line Graphs from 1:100,000-Scale Maps	USGS			
US	Electric Power Lines	Electric Power Transmission Line Data	Rextag Strategies Corp.			
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			
MO	Daycare Centers	Sensitive Receptor: Licensed Child Care Facilities	Department of Health & Senior Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
US	USGS 7.5' Topographic Map	Scanned Digital USGS 7.5' Topographic Map (DRG)	USGS			

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

AMERICAN RECREATION PRODUCTS
113 INDUSTRIAL DRIVE
NEW HAVEN, MO 63068

TARGET PROPERTY COORDINATES

Latitude (North):	38.59750 - 38' 35' 51.0"
Longitude (West):	91.2227 - 91' 13' 21.7"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	654777.1
UTM Y (Meters):	4273403.0
Elevation:	597 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38091-E2 NEW HAVEN, MO
Most Recent Revision:	1973

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 principal 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).

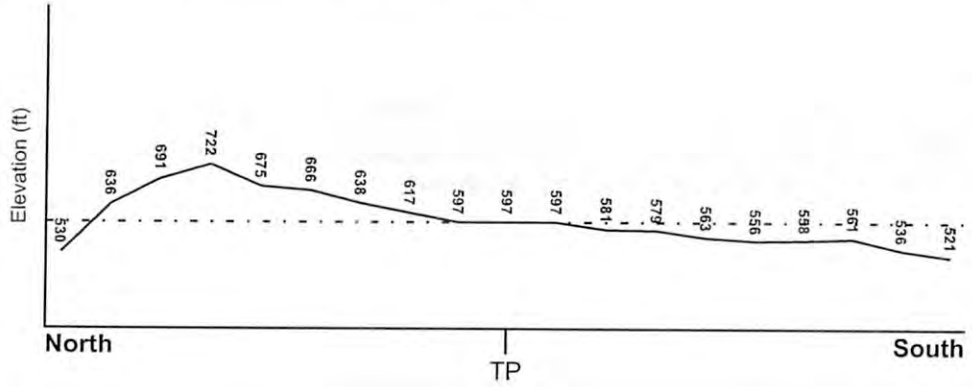
TOPOGRAPHIC INFORMATION

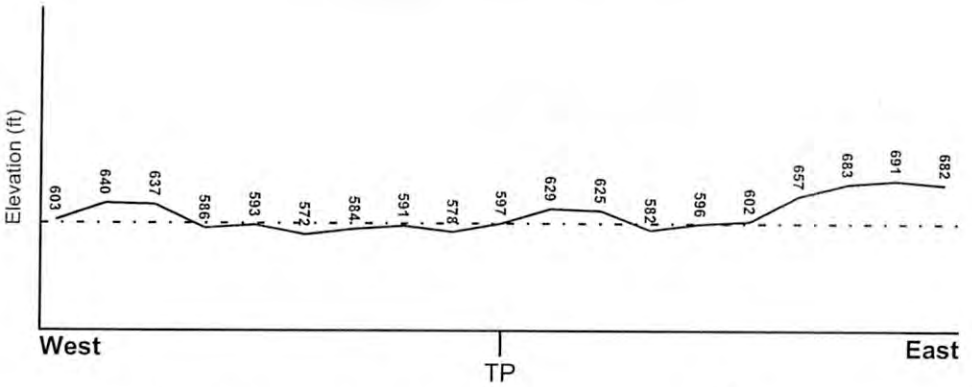
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 597 ft.

0 1/2 1 Miles

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

Target Property County	FEMA Flood Electronic Data
FRANKLIN, MO	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 2901330001A - FEMA Q3 Flood data

Additional Panels in search area: 2904930075B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NEW HAVEN	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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

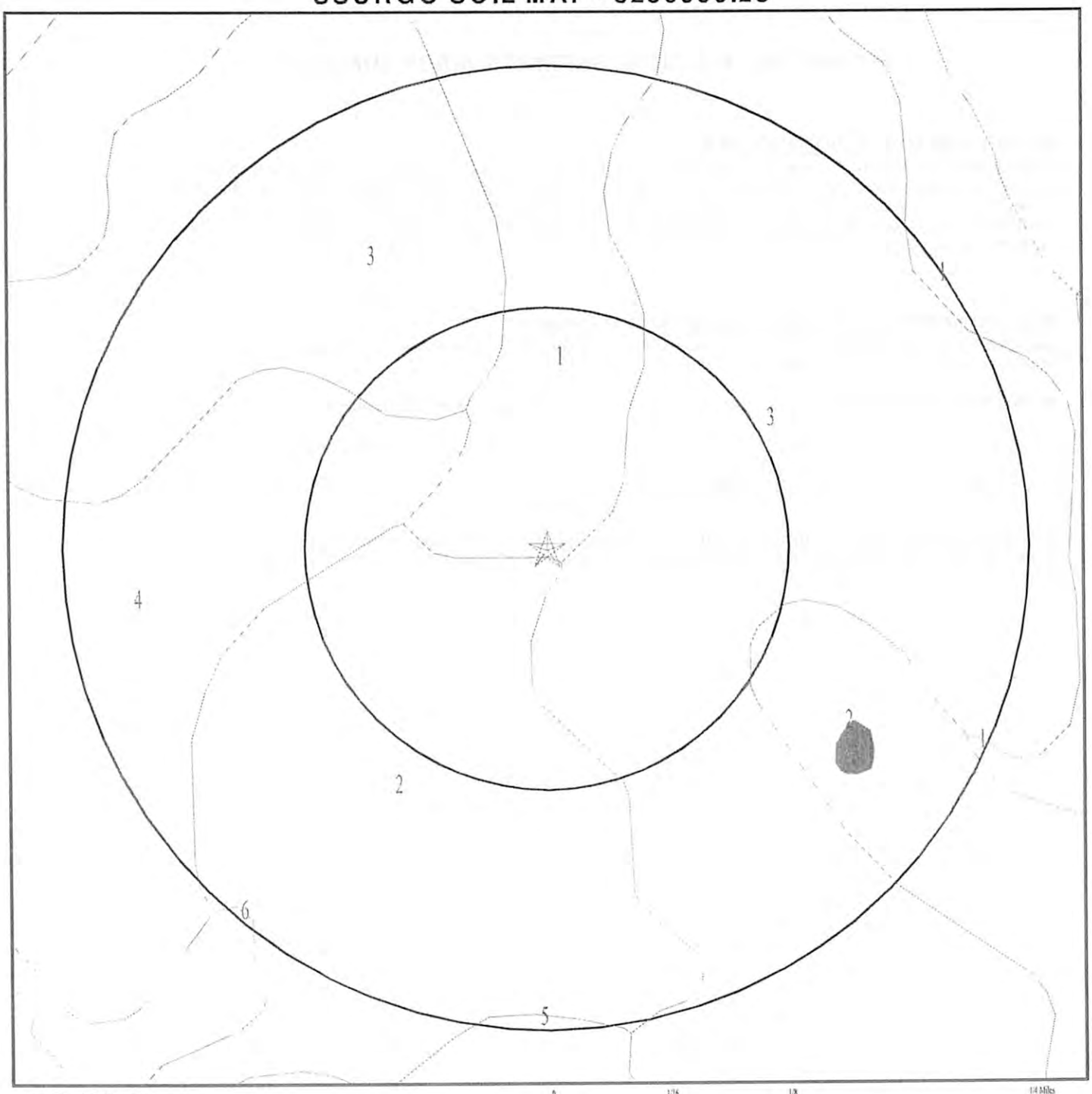
Era:	Paleozoic
System:	Ordovician
Series:	Lower Ordovician (Canadian)
Code:	O1b *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 3236999.2s



★ Target Property

SSURGO Soil

Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: American Recreation Products ADDRESS: 113 Industrial Drive New Haven MO 63068 LAT/LONG: 38.5975 / 91.2227	CLIENT: Barr Engineering CONTACT: Rob Murphy INQUIRY #: 3236999.2s DATE: January 10, 2012 12:19 pm

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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: Crider

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							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	7 inches	61 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Map ID: 2

Soil Component Name: Hartville

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5
2	7 inches	16 inches	silty clay loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5
3	16 inches	59 inches	silty clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5

Soil Map ID: 3

Soil Component Name: Crider

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							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	61 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Map ID: 4

Soil Component Name: Hartville

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5
2	7 inches	16 inches	silty clay loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5
3	16 inches	59 inches	silty clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5

Soil Map ID: 5

Soil Component Name: Auxvasse

Soil Surface Texture: silt loam

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

Soil Drainage Class: Somewhat poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.8 Min: 4.5
2	16 inches	31 inches	silty clay	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.8 Min: 4.5
3	31 inches	59 inches	silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 7.8 Min: 4.5

Soil Map ID: 6

Soil Component Name: Haymond

Soil Surface Texture: silt loam

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.8 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	9 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.8 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

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS2534986	0 - 1/8 Mile NNE
B4	USGS2534990	0 - 1/8 Mile North
5	USGS2534982	1/8 - 1/4 Mile SSW
C7	USGS2534992	1/4 - 1/2 Mile NNW
E10	USGS2534995	1/2 - 1 Mile NNE
E11	USGS2534996	1/2 - 1 Mile NNE
13	USGS2534983	1/2 - 1 Mile East
F14	USGS2534998	1/2 - 1 Mile NNE
F15	USGS2535001	1/2 - 1 Mile NNE
F16	USGS2534999	1/2 - 1 Mile NNE
F17	USGS2535000	1/2 - 1 Mile NNE
G18	USGS2535002	1/2 - 1 Mile NNE
G19	USGS2535003	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	MO6010568	0 - 1/8 Mile NE

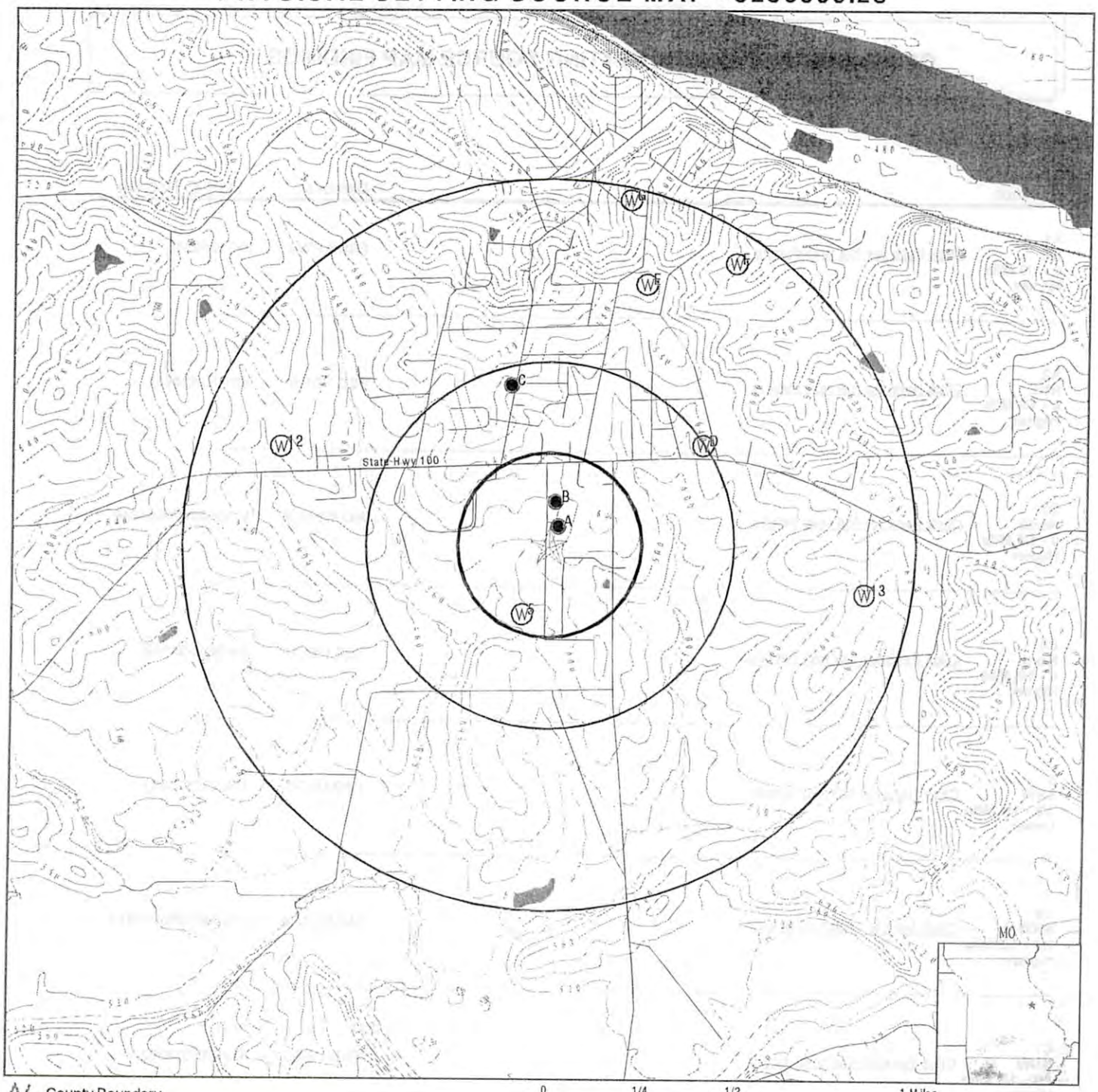
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B3	MO6000000004849	0 - 1/8 Mile North
C6	MO6000000004852	1/4 - 1/2 Mile NNW
D8	MOLOG1000017985	1/4 - 1/2 Mile ENE
D9	MOLOG1000017984	1/4 - 1/2 Mile ENE
12	MOLOG1000017983	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 3236999.2s



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

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Oil, gas or related wells

SITE NAME: American Recreation Products ADDRESS: 113 Industrial Drive New Haven MO 63068 LAT/LONG: 38.5975 / 91.2227	CLIENT: Barr Engineering CONTACT: Rob Murphy INQUIRY #: 3236999.2s DATE: January 10, 2012 12:19 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
A1 NE 0 - 1/8 Mile Higher	Click here for full text details	FRDS PWS	MO6010568
A2 NNE 0 - 1/8 Mile Higher	Click here for full text details	FED USGS	USGS2534986
B3 North 0 - 1/8 Mile Higher	Click here for full text details	MO WELLS	MO6000000004849
B4 North 0 - 1/8 Mile Higher	Click here for full text details	FED USGS	USGS2534990
5 SSW 1/8 - 1/4 Mile Lower	Click here for full text details	FED USGS	USGS2534982
C6 NNW 1/4 - 1/2 Mile Higher	Click here for full text details	MO WELLS	MO6000000004852
C7 NNW 1/4 - 1/2 Mile Higher	Click here for full text details	FED USGS	USGS2534992
D8 ENE 1/4 - 1/2 Mile Higher	Click here for full text details	MO WELLS	MOLOG1000017985
D9 ENE 1/4 - 1/2 Mile Higher	Click here for full text details	MO WELLS	MOLOG1000017984

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
E10 **NNE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS2534995**
E11 **NNE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS2534996**
12 **WNW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**MO WELLS**	**MOLOG1000017983**
13 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS2534983**
F14 **NNE** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS2534998**
F15 **NNE** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS2535001**
F16 **NNE** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS2534999**
F17 **NNE** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS2535000**
G18 **NNE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS2535002**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
G19 **NNE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS2535003**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
63068	01/23/08	2
63068	04/12/08	????
63068	03/09/05	0.5
63068	10/07/04	????

Federal EPA Radon Zone for FRANKLIN County: 2

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

Federal Area Radon Information for Zip Code: 63068

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.150 pCi/L	100%	0%	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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

HYDROGEOLOGIC INFORMATION

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

GEOLOGIC INFORMATION

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

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

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

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

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

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Missouri Public Drinking Water Wells
Source: Department of Natural Resources
Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Natural Resources
Telephone: 573-368-2195

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

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

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix F

Interview Documentation

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER QUESTIONNAIRE FORM

Property : American Recreation Products **Interviewer:** Rob Murphy, P.E.

Project No.: 25/37-1002 **Date:** January 12, 2012

User Information:

Name: Steve Roth Tel. No.: 573-237-2349

Position Title & Co. City of New Haven Administrator Connection to Property: Owner

Introduction

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must provide the following information (if available) to the environmental professional that will conduct the Environmental Site Assessment (ESA). Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. If your goals include protections afforded by the Act, you should consult with legal counsel as to your responses.

1. Why is the Phase I required and who will rely on the Phase I report? The City of New Haven is the landowner and is interested in selling the property to a developer. Having a Phase I Assessment should help promote a transaction.

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

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

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

   The property has been used as a warehouse for sleeping bags sold by ARP. More recently Rawlings Sporting Goods has leased portions of the warehouse for sporting goods storage on pallets. The Kellwood Superfund site is nearby and the responsible parties have investigated near the Property.

5. Does the purchase price being paid for this Property reasonably reflect the fair market value of an uncontaminated property? Not applicable.

6. Are you aware of information about the Property that would help the environmental professional to identify conditions indicative of releases or threatened releases or hazardous substances or petroleum products? For example, as user:

   a. Do you know the past uses of the Property? ARP warehouse.

   b. Do you know of specific chemicals that are present or once were present at the Property? NO

   c. Do you know of spills or other chemical releases that have taken place the Property? NO

   d. Do you know of any environmental cleanups that have taken place at the Property? NO

---

*activity and use limitations —legal or physical restrictions or limitations on the use of, or access to, a property: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or ground water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or ground water on the property.

7. As the user of this ESA, based on your knowledge and experience related to the Property, are there any indicators that point to the presence or likely presence of contamination at the Property? No – the nearby Superfund site investigation did not reveal any contamination on or near the Property.

8. Do any of the following documents exist for the Property? If so, please provide a copy to Barr either prior to, or at the time of, the site reconnaissance.

Document type	*Exists – yes or no*	*Comments*
Environmental site assessment reports	N	
Environmental compliance audit reports	N	
Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits)	N	
Registrations for underground and above-ground storage tanks	N	
Registrations for underground injection systems	N	
Material safety data sheets for chemicals used onsite	N	
Community right-to-know plan	N	
Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.	N	
Reports regarding hydrogeologic conditions on the Property or surrounding area	Y	Parsons performed one, contact Evan Kifer at the MDNR
Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the Property or relating to environmental liens encumbering the Property	N	
Hazardous waste generator notices or reports	N	
Geotechnical studies for building foundations, etc.	N	
Risk assessments	N	

9. Do you know of:

   i. Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Property? NO

   ii. Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Property? NO

   iii. Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products associated with the Property? NO

INTERVIEW QUESTIONNAIRE FORM

Property : **American Recreation Products – New Haven, MO**
Interviewer: **Rob Murphy, P.E.**
Date: **January 12-13, 2012**

Person(s) Interviewed and Contact Information:

Name Julius Gatzemeyer
Telephone Number (573) 237-4696
Position Title Former employee of ARP, current New Haven Public Works employee
Years familiar with the Property 30 years
If we have follow-up questions, how should we contact you? call

Name Evan Kifer
Telephone Number (573) 751-1990
Position Title MDNR Superfund project manager, historical knowledge of nearby site
Years familiar with the Property 10 years
If we have follow-up questions, how should we contact you? call

Name Chief Brian Steuber
Telephone Number (573) 237-3229
Position Title New Haven/Berger Fire District
Years familiar with the Property Unknown
If we have follow-up questions, how should we contact you? call

Name John Schumacher
Telephone Number (573) 308-3678
Position Title USGS Missouri Water Science Center – EPA's groundwater manager
Years familiar with the Property Since the late 1980s
If we have follow-up questions, how should we contact you? call

Appendix G

Qualifications

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Qualifications

Company Information

Barr provides a wide range of engineering and scientific consulting services. Barr traces its origins to the early 1900s, and was incorporated as an employee-owned firm in 1966. Our company, which is based in Minneapolis, has gained the confidence of clients throughout the upper Midwest and the nation, including industries, utilities, law firms, and all levels of government.

In the past ten years, Barr has acquired A.W. Mathews Engineering, a Hibbing, Minnesota, company providing design services to industry for more than 40 years and Environmental Concepts, Inc., a Jefferson City, Missouri, company providing technical and regulatory services to public and private clients. Barr also has branch offices in Duluth, Minnesota and Ann Arbor, Michigan. In addition, Barr has formalized partnerships with firms in Marquette, Michigan and Walla Walla, Washington. These additions have strengthened our ability to meet the total engineering and environmental needs of our clients. Drawing upon skills in more than two dozen technical areas, our staff are able to form multidisciplinary teams to meet those needs in the areas of:

- Solid and hazardous waste management and site remediation
- Water resources management
- Environmental management
- Air quality
- Process and materials handling
- Facilities and infrastructure engineering
- Information technology

Barr employs approximately 350 engineers, scientists, and support staff in the following disciplines:

Engineering/Design	Science	Support Services
Agricultural	Atmospheric Science	Accounting
Architectural	Biology	Computer Science
Chemical	Biochemistry	Drafting/Graphics
Civil	Chemistry	Field Operations
Electrical	Data QA/QC	Laboratory Operations
Environmental	Epidemiology	Library Science
Geologic	Forestry	Information Management
Geotechnical	Geochemistry	Public Relations
Hydraulic	Geology	Surveying
Hydrologic	Geophysics	Technical Writing
Mechanical	Hydrogeology	Word Processing
Structural	Industrial Hygiene	
Water Resources	Public Health	
	Soil Science	
	Toxicology	

Barr uses a project team approach that matches our expertise with the unique requirements of each project. Directed by an experienced project manager, the teams are created with staff chosen specifically to meet the client's needs in terms of schedule, budget, and technical approach. Overall responsibility for each project is maintained by an officer of the company. Barr uses state-of-the art computer and data processing systems to manage and monitor budgets, staff workloads, and billings for all projects.

Quality control on each project is the responsibility of every member of the project team. Reports, designs, and specifications are prepared to meet the client's requirements. Barr's quality assurance program includes:

- Obtaining clear and complete understanding of the client's needs
- Communication among team members and with the client as work progresses
- Peer review as the work progresses
- Evaluation of completed documents for technical accuracy and cost-effectiveness

Barr has proven its ability to complete complex projects on time, within budget, with a high degree of quality' and with the appropriate technical approach.

Qualifications and Experience—Site Assessments

Barr conducts environmental assessments for a wide variety of clients involved in property and business transactions. Clients include mortgagors, attorneys, developers, and private and public parties interested in selling, purchasing, or redeveloping property.

Barr has specialized in the investigation and design of remedial actions for contaminated sites since the early 1970s. Our company has completed hundreds of site investigations, feasibility studies, and remedial action designs. This experience includes work on most of the larger contaminated sites in Minnesota as well as numerous smaller sites. Barr has been a primary consultant on about two-thirds of the EPA National Priority List sites in Minnesota and has been involved in either a primary or secondary role on about half of the sites listed by the state of Minnesota. Barr's work on virtually all of these sites has been on behalf of potentially responsible parties. We have worked on contaminated sites in many other states as well.

Many projects are initiated by clients who are buying or selling property or who are required to conduct an environmental assessment for financing purposes. Other projects are initiated by clients who suspect that contamination may be present on a site. Still other projects are in response to orders from regulatory agencies. Many of these projects involve a state voluntary cleanup program. Barr works for clients in both the public and private sectors, and clients range from major industries such as 3M, Champion International and Northern States Power Company to state and federal agencies such as the U.S. Air Force and the Minnesota Department of Transportation.

Barr has worked on a variety of properties, including:

- Steel and coke manufacturing

- Wood treating
- Petroleum refining
- Manufacturing (paint waste/spent solvents)
- Coal gasification
- Mining and mineral processing
- Petroleum product storage (above and below ground)
- Metal plating
- Scrapyards
- Landfills
- Fly and bottom ash
- Permitted and nonpermitted waste disposal facilities

The Barr staff is familiar with a wide range of industrial practices because we provide environmental and waste management consulting to many industries. The resumes of the specific Barr staff member who worked on this Assessment have been included in the following pages for your information.

ROB MURPHY, P.E.

Experience

Robert Murphy has more than 15 years of experience in the areas of hydrogeology, hazardous waste site characterization and remediation, project management, and brownfield redevelopment issues and funding. Prior to joining Barr, Robert worked for the Hazardous Waste Program of the Missouri Department of Natural Resources, including five years as a project manager in the Voluntary Cleanup Program (VCP) and nine years as an environmental engineer in the Groundwater Enforcement Unit. He has a strong working knowledge of environmental permitting, compliance, and regulations, including RCRA and state and federal groundwater monitoring regulations, Missouri risk-based corrective-action guidance, Phase I and Phase II environmental site assessments, sampling and analysis protocols, risk analysis and threat characterization, vapor-intrusion modeling, health and safety protocols, and remedial action design and operation.

Examples of his project work at Barr include:

- Performing Phase I environmental site assessments on abandoned FMGP and other industrial sites throughout Missouri. Conducted all records review, interviewing, site inspections, and report preparation.
- Performing Phase II environmental site assessments on industrial sites and closed gasoline station LUST sites in Missouri. Coordinated all field work, conducted soil and groundwater sampling, and prepared work plans and final reports.
- Performing MRBCA Tier 1 and Tier 2 evaluations on abandoned gas stations in Missouri. Developed representative concentrations for use in the MRBCA software, evaluated all human exposure pathways, and recommended appropriate future use of the abandoned sites.
- Conducting Targeted Brownfield Site Assessments for the VCP as a State contractor, prepared all work plans, final reports, QAPPs, and project Health & Safety Plans. Prioritized field work to ensure the grant money was spent on necessary field work to evaluate future property use.

Examples of his project work at MDNR include:

- Conducting technical evaluations of information and data pertaining to VCP sites, including review of work plans, sampling plans, health and safety plans, quality assurance, remedial action plans, remedial investigation reports, feasibility studies, treatability studies, and risk assessments, including the engineering aspects of those documents. Prepared the appropriate institutional control language to file in the VCP site's property chain of title.
- Participating in a workgroup to develop Missouri's risk-based corrective action rule and guidance document. Served as member of the technical review group for the guidance document and lead project manager in VCP for applying it to a risk-based approach to site characterization, cleanup, and implementation of institutional controls.

- Coordinating with developers and local, state, and federal agencies in public outreach activities for the VCP and brownfields redevelopment programs. Provided support to the Missouri Department of Economic Development in their approval of brownfield remediation tax credits. Prepared public education materials and conducted seminars and workshops.

- Assisting other VCP managers with engineering and groundwater aspects of their projects. Conducted team meetings to brainstorm innovative ways to manage and remediate projects.

- Preparing comprehensive groundwater monitoring evaluation reports to assess the site-specific technical and regulatory adequacy of groundwater monitoring systems. Evaluations included review of groundwater sampling and analysis plans, protocols, field measurement techniques, and health and safety plans at Resource Conservation and Recovery Act (RCRA) hazardous waste facilities. Coordinated report findings and recommendations, including any enforcement actions with the U.S. Environmental Protection Agency (USEPA) and other state agencies. Ensured compliance with applicable groundwater monitoring regulations through enforcement follow-up and negotiations with regulated facilities.

- Reviewing, evaluating, and commenting on RCRA facility site and waste characterization plans, soil and groundwater sampling and analysis plans, hydrogeologic investigation work plans and reports, groundwater assessment monitoring plans and reports, annual groundwater monitoring reports, RCRA closure and post-closure plans, RCRA facility investigations, and corrective measures studies.

- Developing the groundwater monitoring portion of RCRA hazardous-waste land-disposal operating and/or post-closure permits. Provided enforcement of the permits' groundwater provisions.

Education

33 Hours of post-graduate environmental engineering coursework, University of Missouri-Rolla, 1990-1991

B.S., Petroleum Engineering, University of Missouri-Rolla, 1987

Registration

Professional Engineer: Missouri

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