Phase I Environmental Site Assessment

Old Freeman Hospital

2008 S. Sergeant Ave.

Joplin, Jasper County, Missouri

December 16, 2024 | Terracon Project No. B5247061

Prepared for:

City of Joplin MO
City Hall
602 S. Main St.
Joplin, Missouri

Prepared by:

Terracon Consultants, Inc.
Springfield, Missouri

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December 16, 2024

City of Joplin MO
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602 S. Main St.
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Attn: Thomas Walters
P: 417-624-8020 ext. 1539
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Re: Phase I Environmental Site Assessment
Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, Jasper County, Missouri
Terracon Project No. B5247061

Dear Mr. Walters:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the 'site'). This assessment was performed in accordance with our proposal PB5247061 dated November 2, 2024.

We appreciate the opportunity to be of service to you on this project. In addition to ESA services, our professionals provide other environmental, geotechnical, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Mandy L. Carlson
Staff Scientist

C. Rand Raglin
Due Diligence Manager

Attachments

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Executive Summary

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our proposal PB5247061 dated November 2, 2024, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify recognized environmental conditions (RECs) in connection with the site as reflected by the scope of this report. The ESA was conducted under the supervision or responsible charge of C. Rand Raglin, Environmental Professional. Mandy L. Carlson performed the site reconnaissance on December 13, 2024.

Findings and Opinions

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

Site Description and Use

According to the Jasper Tax Assessor, site observations, and information provided by the Client, the consists of a 1.2-acre parcel of land located at 2008 S. Sergeant Ave. in Joplin, Missouri. The site is developed with the old Freeman Hospital, which is currently vacant. Please refer to Exhibit 2 in Appendix A for a diagram of the site.

Historical Information

The site was vacant land as of 1906 and was initially developed as Freeman Hospital in 1924. The site also had residential structures present in 1938; however; by 1959 the residential structures were removed to make room for the expansion of Freeman Hospital. There was also an addition to the north end of the hospital in 1960. Historically, the north, south, and west adjoining properties consisted of residential structures, sometimes used commercially. The west adjoining properties were residentially developed by 1906. By 1961, the east adjoining property was used as a parking area of Freeman Hospital. The west adjoining property was redeveloped with a commercial structure (current day realty office) around 2006. Further historical information is found in Section 3.0 of this report.

Previous Reports

Terracon requested the client provide any previous environmental reports they are aware of for the site. The client provided an Asbestos Inspection report prepared by Environmental Restoration LLC dated October 28, 2024. Environmental Restoration LLC

identified asbestos containing materials (ACM) in the Old Freeman Hospital building located on the site. The previous asbestos report is included in Appendix D.

Records Review

Selected federal and state environmental regulatory databases as well as responses from the state and local agencies were reviewed. The site was not listed in the regulatory databases report. Two regulatory facilities were identified in the surrounding area.

The site is located within the boundaries of the Oronogo-Duenweg and Newton County Mine Tailings, National Priorities List's (NPL) mining areas, which are a part of the larger regional area known as the Tri-State Mining District. The City of Joplin adopted the Jasper County Environmental Contamination Ordinance (JCECO) in July of 2006. The Ordinance requires soil testing for regulated contaminants on Superfund designated properties associated with new construction of a dwelling, dwelling unit child occupied facility or recreational area. In addition to soil impacts, groundwater impacts have been identified in the area and institutional controls (known as "Area 1 Construction rules") and engineering controls (well casings required) are in place for this site and immediate surrounding area.

The proposed future use of the site is residential. Based on that information, Terracon considers the site's location with the NPL to be a recognized environmental condition (REC).

The remaining listed nearby facilities do not represent RECs to the site at this time based on distance, topographic gradient and/or current regulatory status.

Site Reconnaissance

The Old Freeman Hospital was observed to be vacant and in a state of significant despair. The ceiling has collapsed in several different areas and on several different floors. The interior walls are cracked and falling apart and the paint is peeling. During the site reconnaissance, Terracon observed one-pole mounted transformer on the northwest corner of the site. Trash and other debris were observed in the below ground level window wells; items included plumbing materials from inside the building, and other various items that were being stored inside the building. There were no working utilities to the building and observations were limited by use of flashlights. Terracon observed the main hallways inside the building due to the state of despair of the building. Terracon observed two cable-run elevators/shafts and two large boilers were observed in the basement. Terracon also observed two empty 30-gallon blue drums and three 55-gallon drums. The 55-gallon drums were in very poor condition and content labels could not be identified. Also in the basement, Terracon observed an incinerator.

Mr. Kraft indicated there is lead-based paint in the building. There were also obvious signs of water intrusion and microbial growth throughout the building.

Adjoining Properties

The current day adjoining properties include the following:

- North
  - Vacant lot followed by W. 20th Street
  - 1918 S. Sergeant: Treehouse Academy/residence
- East
  - S. Sergeant Ave.
  - 2001 S. Sergeant: Able Body Chiropractic
  - 2007 S. Sergeant: Reece Nichols Realty office
- South
  - 705/707 W. 21st St.: Residential
  - W. 21st Street
- West
  - 2011 – 2021 S. Jackson Ave: Residential
  - 712 W. 20th St.: Vacant (previous restaurant)

Significant Data Gaps

Significant data gaps (SDGs) were not identified.

Additional Services

Per the agreed scope of services, additional services as outlined in the proposal, including items described in Section 13.0 (Non-Scope Considerations) of ASTM E1527-21, were not conducted.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at 2008 S. Sergeant Ave., Joplin, Jasper County, Missouri, the site. The following RECs were identified in connection with the site.

- Soil and groundwater impact have been identified in the area of the site due to historic mining and are further discussed in Section 4.1 under the Oronogo-Duenweg Mining Belt and Newton County Mine Tailings NPL listings. Institutional controls (contamination ordinance) and engineering controls (well casing required) are in-place due to these listings. Based on the proposed future residential use, these listings represent a REC to the site.

- The three (3) corroded 55-gallon drums of unknown contents and the surficial staining in the vicinity represents a REC.
- Incinerators potentially emit harmful pollutants like dioxins, furan, and heavy metal when not properly maintained or operated, posing a risk to public health and environmental health. The previous use of an incinerator represents a REC to the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon recommends the following:

- Follow applicable Jasper County Environmental Contamination Ordinance requirements.
- Proper assessment/characterization and disposal of drums and incinerators.

1.0 Introduction

1.1 Site Description

Site Name	Old Freeman Hospital
Site Location/Address	2008 S. Sergeant Ave., Joplin, Jasper County, Missouri
Parcel Number	Parcel # 19501510008007000
Land Area	Approximately 1.2-acres
Site Improvements	Currently developed with a vacant building
Anticipated Future Site Use	Demolish existing hospital and redevelopment for residential use
Reason for the ESA	Acquiring the site

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the United States Geological Survey (USGS) 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A.

1.2 Scope of Services

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our proposal PB5247061 dated November 2, 2024, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. Recognized environmental conditions are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." This ESA includes consideration of the movement of hazardous substances and petroleum products in any form, including migration of vapor in the subsurface. A de minimis condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and

adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

Review of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

PFAS are a family of compounds which are considered emerging contaminants of concern due to their mobility and longevity in the environment. PFAS has been used in many products, including but not limited to fire-fighting foam, anti-stick coatings, stain and water-repellent coatings, electroplating, and paper products, among others. On July 8, 2024, US EPA designated two PFAS compounds, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), including their salts and structural isomers, as hazardous substances under CERCLA; accordingly, PFOA and PFOS was evaluated within the scope of E1527-21. Please note that PFAS compounds are ubiquitous in the environment and this limited review is not to be construed as confirmation that PFAS compounds are not present in, at or under the site.

1.3 Standard of Care

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

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

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

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

- At the time of the site reconnaissance, there was no working electricity, observations were limited by use of flashlights.
- At the time of the site reconnaissance, observations were limited to the main hallways on each floor due to the amount of debris, fallen ceilings, and safety concerns.

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

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

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of City of Joplin MO. Use or reliance by any other party is prohibited without the written authorization of City of Joplin MO and Terracon Consultants, Inc. (Terracon).

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

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Thomas Walters of the City of Joplin MO, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

Client Questionnaire Responses

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

*N/A = Not Applicable

Mr. Walter's indicated Sanborn Maps illustrate a fuel oil tank being located on the site. The fuel oil tank is further discussed in pertinent sections of this report.

Terracon's consideration of the client-provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 Physical Setting

Physical Setting Information		Source
Topography		
Site Elevation	Ranges from 1080 to 1100 feet above sea level	USGS Topographic Maps, Joplin West and Joplin East Quadrangles, (1978) (Appendix A)
Topographic Gradient	Very gently sloping towards the east-southeast	
Closest Surface Water	Unnamed wet weather creek approximately 2,735 feet northwest of the site.	
Soil Characteristics		
Soil Type	40015 - Eldorado silt, 1 to 3 percent slopes, very stony	Jasper County, Missouri USDA-NRCS Web Soil Survey accessed December 2024
Description	Eldorado silt loam – A typical soil profile consists of silt loam from 0 to 7 inches, very cobbly silt loam 7 to 20 inches, extremely cobbly silt loam 20 to 33 inches, and very cobbly clay from 33 to 70 inches. A well-drained soil with a medium runoff forming 1 to 3 percent slopes.	
Geology/Hydrogeology		
Formation	Osagean Series Meramecian Series	USGS Online Spatial Data accessed December 2024
Description	Osagean Series – Keokuk Limestone, Burlington Limestone, Elsey Formation, Reeds Spring Formation,	

Physical Setting Information		Source
	Pierson Limestone, Fern Glen Formation Meramecian Series – St. Louis Limestone, Salem Formation, Warsaw Formation	
Estimated Depth to First Occurrence of Groundwater	Approximately 160 feet below ground surface; however, perched groundwater is likely to be encountered at a shallower depth.	Missouri Department of Natural Resources (MDNR) GeoSTRAT interactive map accessed December 2024
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the east-southeast).	

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

3.0 Historical Use Information

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

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

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

- Topographic maps:
  - Joplin and Carthage, MO, dated **1886** and **1894** (1:125,000)
  - Joplin West, MO, dated **1962**, **1978**, **1980**, **2015**, **2017**, and **2021** (1:24,000)
  - Joplin East, MO, dated **1963**, **1978**, **1980**, **2015**, **2017**, and **2021** (1:24,000)

- Aerial photographs: **1938**, **1959**, **1961**, **1974**, **1977**, **1981**, **1985**, **1990**, **1996**, **2006**, **2009**, **2012**, **2016**, and **2020** (1" = 500')
- Sanborn Fire Insurance Maps: **1906**, **1950**, **1954**, **1963**, and **1967**

Historical Maps and Aerial Photographs

Direction	Description
Site	Depicted as undeveloped land (1886-1894); Illustrated as vacant lots (1906); Appears to be developed with Freeman Hospital (1938); Illustrated with Freeman Hospital as being developed in 1924, a dwelling south of the hospital with a boiler and *fuel oil tank* followed by another dwelling (1950-1954); Freeman Hospital appears to have expanded in size including multiple stories (1959-1961); Freeman Hospital is illustrated in the area of the previous boiler, fuel oil tank and dwellings (1963-1967); Site appears to consist of Freeman Hospital (1974-2020).
North	Depicted as undeveloped land (1886-1894); Illustrated with a vacant lot followed by a dwelling then 20th Street (1906); Appears to be a vacant lot (1938); Illustrated as a vacant lot, and a restaurant and dwelling to the northwest, and multiple dwellings to the northeast (1950-1954); Appears to remain a vacant lot (1959-1961); Illustrated as a vacant lot, and a restaurant and dwelling to the northwest, previous northeast dwellings are replaced with an office (1963-1967); A small parking area is apparent, the remaining area remains vacant (1974-2020).
East	Depicted as undeveloped land (1886-1894); Illustrated as developed with S. Sergeant Avenue followed by multiple dwellings (1906); Appears to have multiple residential structures (1938); Illustrated as developed with dwellings (1950-1954); Multiple residential structures appear to remain (1959); The central portion appears to have cleared of residences and appears to be parking area, while other residential structures remain to the north and south of the parking area (1961); Illustrated with vacant lots in the central portion and dwellings remaining to the north and south of the vacant lots (1963); Illustrated with vacant lots, the previous dwellings are no longer illustrated (1967); Appears to be used as a large parking lot with commercial structures at the north and south ends (1974-1996); Appears to have undergone redevelopment, a commercial structure and parking area are apparent in the central portion (2006-2020).

Direction	Description
South	Depicted as undeveloped land (1886-1894); Illustrated with vacant lots followed by 21st Street (1906); Appears to be developed with residential structures (1938); Illustrated as developed with a dwelling to adjoining south, and a *filling station* with a dwelling to the adjacent southwest, and a dwelling with a store to the adjacent southeast (1950); Illustrated with the adjoining dwelling remaining, southwest adjacent filling station appears to be vacant, and the southeast adjacent store has expanded (1954); South adjoining residence appears to remain, the southwest adjacent property appears to be a vacant lot, the southeast adjacent property appears relatively unchanged (1959-1961); Illustrated with dwelling remaining to the south, and the southwest adjacent is identified as parking (1963-1967); The south adjoining residential structure appears to remain, the southwest appears as vacant land, and the store appears to remain (1974-2020)
West	Depicted as undeveloped land (1886-1894); Illustrated with an alley followed by vacant lots then Jackson Avenue (1906); Appears to be developed with multiple residential structures (1938); Illustrated with multiple dwellings (1950-1954); Multiple residential structures are apparent (1959-1961); Illustrated with multiple dwellings (1963-1967); Residential structures remain relatively unchanged (1974-2020).

A fuel oil tank was historically located in the area that had a multi-story/basement building addition in 1957 and the heating oil tank would presumably have required removal at the time. Based on presumed removal of the heating oil tank and surrounding soil during the hospital addition and the lack of a reported release, the heating oil tank is not considered a REC. The filling station historically located approximately 150 southwest of the site was removed by 1963. Based on distance and gradient relative to the site it is not considered a REC for the site.

3.2 Historical City Directories

The EDR Digital Archive, Cole Information, and Polk's City Directory city directories used in this study were made available through EDR (selected years reviewed: 1964-2020) and were reviewed at approximate five-year intervals, if readily available. The current street address for the site was identified as 2008 S. Sergeant Avenue.

Historical City Directories

Direction	Description
Site	**2008 S. Sergeant Ave.:** Freeman Hospital (1964, 1967, 1971); State Ozark Gateway Regional Planning Com. (1976); Ozark Gateway Council of Govts (1981, 1986); Community Food & Nutrition (1981), County Sheltered Facilities (1981), Manpower (1981), Area Agency on Aging (1981, 1986), Manpower - Work Experience In-Sch) (1981), Manpower – Work Experience-Adult) (1981), Head Start Sch. (1981, 1986), Chem Staat Laboratory (1981), Economic Security Corp. welfare organization (1981), City Family Planning (1981); Play Right Toys (1992); Child & Parent CTR (1995); McWilliams, Randy (1995, 2005); Midtown U Store (1995); Greathouse, Mary (2010) **No Listings:** 2000, 2014, 2017 and 2020
North	**710 W. 20th St.:** Greenlee Café (1964), Greenlee, Jess (1964); Vacant (1967, 1971); City Family Planning (1976), Economic Security Corp. Southeast Area org welfare (1976), Head Start (1976); No listings (1981, 1986, 1992, 1995, 2000,2005, 2010, 2014, 2017, and 2020) **712 W. 20th St.:** Mary Lees Café (2005, 2010, 2014, 2017); Kevin's Café (2020) **2001 S. Sergeant Ave.:** Talbott, James M – Dentist (1964, 1967, 1971, 1976, 1981); Shanahan, Mary -Phys (1967, 1971); Detar, David – Dentist (1976); Fuhr, Wendell – Dentist (1981); Skahan, James – Dentist (1986), Schulte, Jos C – Dentist (1986); Schultz, Carole - DDS (1992, 1995, 2000, 2005), Karns A L (2000, 2005); Able Body Chiropractic (2010, 2014, 2017, 2020), Herb Waring (2020) **2002 S. Sergeant Ave.:** No listings
East	**2011 S. Sergeant Ave.:** Freeman Hospital Parking Lot (1964, 1967, 1971); Ozark Gateway Reg. Planning Com. Parking Lot (1976); No listings (1981, 1986, 1992, 1995, 2000) **2007 S. Sergeant Ave.:** Central Ozarks Credit Union (2005); Postal Federal Community CU (2010, 2014, 2017, 2020)

Direction	Description
South	**615 W. 21st St.:** Bud & Don's Florist (1967, 1971, 1976, 1981); Designs by Diana – florist (1986); Watkins, Leo (2000); Occupant Unknown (2010, 2014) **615 1/2 W. 21st St.:** Davis, Donald (1967); Vacant (1971, 1986); Hill, Weldon (1976); Provance, Joseph (1981) **617 W. 21st St.:** Cashion Elmer (1967); Isgrigg, Virgil (1971, 1976, 1981); Allison, Diana (1986); Brunson, Debra (1992), MacPhee, Diana (1992); Thayer, William (2000); Johnson, Jean (2005); Lazarus Ministries (2010, 2014, 2017); Wilson, James (2010, 2020); Lansaw, Richard (2014); Votan, Greg (2017); Lonnie Webb (2020); Timmy Davis (2020) **705 W. 21st St.:** Nelson, K (1992, 1995); Gaut, Laurel (2000); Behan, Charla (2005, 2010); Occupant Unknown (2014) **707 W. 21st St.:** Ritchie, James (1992); Rhodes, Charley (1995, 2020); Rhodes, Frances (2005, 2010, 2014, 2020); Cole, Chris (2017, 2020); Jonathan Loomis (2020) **2030 S. Sergeant Ave.:** Robins, Phoebe (1964, 1967, 1971, 1976); Schultz, Robert (1981); No listings (1986)

Direction	Description
West	**2007 S. Jackson Ave.:** Jewitt, WM (1964); Bourassa Edward (1967); Vacant (1971); No listings (1976, 1981, 1986, 1992, 1995, 2000, 2005, 2010, 2014, 2017, 2020) **2011 S. Jackson Ave.:** Pickering, Stanley (1964); Toon Wm (1967, 1971); Vacant (1976); Tusinger Janice (1981, 1986), No listings (1992, 2017); Wood Debra (1995); Felkins Richard (2000); County of Jasper (2005); McDonough Sue (2005); Graham Walter (2010, 2014); Debra Tusinger, June Evans, Linda Hensley, Richard Harris (2020) **2015 S. Jackson Ave.:** Freeman Hospital Mental Health Clinic (1964); Wetzel, Rita (1964); Ozark Psychiatric Foundation (1967); Vacant (1971, 1976, 1981); Daily Clifford (1986, 1992, 1995, 2000, 2005, 2010); Occupant Unknown (2014); Asbill Shelby (2017); Nickolas Ritter (2020) **2017 S. Jackson Ave.:** Gibson, Harold (1964, 1967); White Sally (1971); Lindley Wilbur (1976); Overstreet Greg (1981); La Gasse John (1986); Lagasse CM (1992, 1995); Zwickert Janet (2000); Zwickert John (2005); Flager Brandon (2010, 2014); Leonard Anna (2017, 2020) **2021 S. Jackson Ave.:** Graves, James (1964); No listings (1967, 1992, 1995, 2017); Cerebral Palsy Office (1971); Vacant (1976); La Gasse John (1981); Vacant (1986); Kundysek Jodi (2000); Occupant Unknown (2010); Johnston Tara (2014, 2020); Jessica Diel (2020) **2023 S. Jackson Ave.:** Hartzell, Adrin (1964); Freeman Hospital Development Center (1967, 1971); Vacant (1976); Harlin, Kay (1981, 1986); No listings (1992); Occupant Unknown (1995); Smith Nan (2000); Pyle Aaron (2005, 2010, 2014); Malone Lief (2017, 2020); Amy Malone (2020)

Terracon reviewed the above historical city directories for indications of RECs associated with the site. RECs associated with the site were not identified through a review of available historical city directories.

3.3 Site Ownership

Based on a review of information obtained from the Jasper County GIS interactive map, the current site owner is Randal Kraft. Previous owners were not identified.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

A title search report conducted September 25, 2023, provided by the client indicates there are no liens against the site. The title search report can be found in Appendix D of this report.

3.5 Environmental Liens and Activity and Use Limitations

The EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site address was not listed on the EC or IC databases. However, the site is located within the Tri-State Mining District, which includes the Oronogo-Duenweg Mining Belt and Newton County Mine Tailings. The Oronogo-Duenweg Mining Belt and Newton County Mine Tailings are further discussed in Section 4.1. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individual was interviewed regarding the current and historical use of the site.

Interviews

Interviewer	Name / Phone #	Title	Date/Time
Mandy L. Carlson	Randal Kraft / 417-624-6565	Site Owner	December 13, 2024 10:00am

Terracon interviewed Mr. Randal Kraft, the site owner, during the site reconnaissance on December 13, 2014. Mr. Kraft indicated he has owned the site since at least 2008. After his initial purchase, he installed new windows with the intention of renovating the Old Freeman Hospital building. However, the 2011 Joplin Tornado caused damage to the building. Mr. Kraft indicated the Old Freeman Hospital building was used for offices and mini storage prior to his ownership. Many of the individual rooms inside are filled with furniture, toys, papers, books, and other various items. He also indicated the building has been broken into and vandalized on several different occasions. He also indicated vandals have stolen most of the copper materials out of the building. Mr. Kraft informed Terracon the site is currently zone Commercial. Mr. Kraft was unaware of any liens or use limitations against the site.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. A previous asbestos inspection report was provided by the client to Terracon for review as discussed below.

- Asbestos Inspection
  Old Freeman Hospital
  2008 S. Sergeant Ave.
  Joplin, Missouri
  Dated: October 28, 2024
  Prepared by: Environmental Restoration, LLC (ER)
  For: Mr. Bryan Wicklund, City of Joplin

Environmental Restoration, LLC, performed an asbestos inspection of the Old Freeman Hospital located at 2008 S. Sergeant Ave. in Joplin, Missouri. The report indicated there were 37 identified homogeneous areas identified during the inspection and several asbestos containing materials were identified in the Old Freeman Hospital. A copy of the asbestos inspection report is attached in Appendix D.

4.0 Records Review

Regulatory database information was provided by EDR, a contract information services company, in a report dated November 22, 2024. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

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

4.1 Federal and State/Tribal Databases

Terracon reviewed standard federal, state, and tribal environmental record sources within the approximate minimum search distances as required by ASTM E1527-21 and presented in Table 2 of Section 8.0 of The Standard (Types of Government Records to be Reviewed). Further, to enhance and supplement the standard environmental record

sources, Terracon reviewed additional federal, state, tribal, local, and proprietary environmental record sources, provided by the database firm, if potentially useful and reasonably ascertainable. Please refer to Appendix D (the environmental regulatory database report) for the number of listings within each database reviewed and database definitions and descriptions.

Due to conversion of address data to location coordinates and the accuracy of government records, the facility locations depicted in the environmental regulatory database report may not match actual physical locations. As such, Terracon attempted to field-verify the actual distances of facilities of concern from the site.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities within 500 feet of the site. Facilities are listed in order of proximity to the site. Additional discussion on selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance / Direction / Gradient	Database Listings	Findings Summary
Oronogo-Duenweg Mining Belt/Newton County Mine Tailings (Area wide designation)	Site and surrounding area	NPL, SEMS, US ENG CONTROLS, US INST CONTROLS, ROD and PRP	REC, see discussion below
Newton County Mine Tailings Multiple areas within Newton County	Site and Surrounding area	NPL and ICIS	CREC, see discussion below

Oronogo-Duenweg Mining Belt / Newton County Mine Tailings

The Oronogo-Duenweg Mining Belt (listed in the NPL, CERCLIS [SEMS], IC/EC, Record of Decision (ROD), and Potentially Responsible Parties (PRP) databases) is located in Jasper County, Missouri and is a portion of the Tri-State Mining District which consists of approximately 270 square miles in southeastern Kansas, southwestern Missouri, and northeastern Oklahoma. Lead, zinc, and cadmium ores were mined and smelted throughout Jasper County from 1848 to the late-1960s. The primary area of mining activity was located in a two mile by ten-mile area located northwest of Joplin between Oronogo and Duenweg. Wastes were derived from tailings, smelter related materials, and mine wastes.

Terracon previously contacted the Missouri Department of Natural Resources (MDNR) for additional information regarding the Oronogo-Duenweg Mining Belt and was informed by Mr. Chris Cady that the entirety of Jasper County is considered in the listed area and provided Terracon with a map showing impact areas and required casing depth for groundwater wells (Appendix C). The site is located in the city limits of Joplin which requires all development to use municipal water.

The Oronogo-Duenweg Mining Belt is also listed as having institutional and engineering controls. These controls include the provision of bottled water to rural residences with elevated metals concentrations in groundwater and the installation of public water supplies to said residences. Also, institutional controls include requirements to analyze surface soil for lead before the construction of new residential or child occupied facilities. These institutional controls are outlined in The Jasper County Environmental Contamination Ordinance which was adopted by Jasper County in July of 2006. It is our understanding that the site is proposed for development for residential use.

Groundwater impacts have been identified in the area and institutional controls (Area 1 Construction rules) and engineering controls (well casings required) are in-place. Terracon reviewed the Jasper County Health Department website which contains a map of Jasper County, Missouri – Mine Areas and Smelter (https://www.jaspercountymo.gov/environmental-services). Based on review of the mapping, the site is located in a designated smelter waste area.

The Newton County Mine Tailings is listed on the EPA's National Priorities List (NPL) and the Integrated Compliance Information System (ICIS) databases in the regulatory database report. The NPL is a tool used by the EPA to assess the risks to public health and the environment and determine what remedial actions may be appropriate. The ICIS database is a duplicate reporting system used for enforcement and compliance information for the EPA. Newton County was added to the NPL due to the presence of lead and cadmium contamination in residential drinking water wells significantly above drinking water limits.

The Newton County Mine Tailings are part of the Tri-State Mining District which consists of approximately 270 square miles in southeastern Kansas, southwestern Missouri, and northeastern Oklahoma. Lead, cadmium and zinc were mined throughout Newton County from 1850 to 1950. These mining activities resulted in unique underground channels and faults of exposed lead, cadmium and zinc ores. The mines were located below the water table, and while in operation pumps were used to keep the water out of the shafts. However, when mining and water pumping operations ceased, the water table returned to natural levels and the ground water came into contact with the exposed ores. Based on sampling information, ground water contamination encompasses approximately 160 square miles. In addition to ground water contamination, elevated levels of lead and cadmium were identified in the soil.

Based on the proposed future planned residential use and the existing IC/ECs, the site being located in the Oronogo-Duenweg Mining Belt NPL and Newton County Mine Tailings NPL is considered a REC.

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

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

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
City of Joplin, City Clerk, Holly Nagy / via email hnagy@joplinmo.org	According to Ms. Holly Nagy, City Clerk for the City of Joplin, the Joplin Fire Department nor the Department of Emergency Management have records pertaining to the site. Ms. Nagy, also indicated Mr. Walters of the City of Joplin, Planning Department, provided all known records to Terracon pertaining to the site.

4.3 Local Area Knowledge

Terracon reviewed the National Pipeline Mapping System (NPMS) interactive map website to assess if natural gas or petroleum pipelines are located on or near the site. Based on this review, gas transmission pipelines, hazardous liquid pipelines, gas incidents or liquid incidents were not identified at or adjoining the site.

Terracon reviewed the MDNR e-START and the Missouri State Geological Survey GeoSTRAT interactive websites to assess if additional regulated facilities and/or wells (water, oil, natural gas, etc.) were located on or near the site. Based on this review, additional facilities or wells were not identified.

5.0 Site Reconnaissance

5.1 General Site Information

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

of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	Mandy L. Carlson
Reconnaissance Date	December 13, 2024
Weather Conditions	Cloudy and 55°F
Site Contact/Title	Randal Kraft / Owner
Site Utilities	
Drinking Water	City of Joplin
Wastewater	City of Joplin
Electric	Liberty
Natural Gas	Provided but not currently in service

Building Description				
Building Identification	**Building Use**	**Approx. Construction Date**	**Number of Stories**	**Approx. Size (ft²)**
Main Building	Previous hospital, offices, and storage	1924-1925 with an addition in 1950 and 1960	6 and basement	80,000

5.2 Overview of Current Site Occupants

The Old Freeman Hospital building is unoccupied.

5.3 Overview of Current Site Operations

The site is not currently being utilized and the building remains unoccupied.

5.4 Site Observations

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

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	X
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	X
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	X
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels, and/or containers ≥ 5 gallons	X
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	

Category	Item or Feature	Observed or Identified
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	X
Electrical Transformers/ PCBs	Transformers and/or capacitors	X
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	X
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	X
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	
	Quarries or pits	
	Wastewater lagoons	
	Wells	
	Other	X

Site Operations, Processes, and Equipment

Elevators

Terracon observed two cable operated elevators/shafts inside the building. However, due to the current dilapidated state of the building, the elevator shaft and equipment were not accessible.

Ventilation hoods and/or incinerators

In the basement, Terracon observed a large hood vent in the kitchen area. Mr. Kraft showed Terracon where the incinerator and the chimney were located during the site reconnaissance. Mr. Kraft was unsure what the incinerator was previously used to burn. The use of an incinerator on site is considered a REC.

Heating and/or cooling systems

In the basement, Terracon observed two large boiler tanks used to heat the building. Mr. Kraft indicated the boilers used natural gas; however, have not been operation since he's owned the property. At the entry of the building an electric air conditioner was being stored in the hallway. The building does not have any working utilities.

Aboveground Chemical or Waste Storage

Drums, barrels, and/or containers > 5 gallons

During the site reconnaissance, Terracon observed several 5-gallon buckets of paint and roof & foundation coating throughout the building. Terracon also observed two empty 30-gallon blue drums and three 55-gallon drums. The 55-gallon drums were in very poor condition and content labels could not be identified. The unknown contents and the staining in the vicinity of the drums is considered a REC.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Interior floor drains

Two Interior floor drains were observed. Mr. Kraft indicated these drains empty into the city sewer system. Staining and/or indications of a chemical spill/release to the floor drains were not observed.

Electrical Transformers/ PCBs

Transformers and/or capacitors

During the site reconnaissance, one pole-mounted transformer, owned and serviced by Liberty was observed on the northwest corner of the site; however, no information with regard to the PCB content of the transformer fluids was observed. Some transformers can contain mineral oi which may contain PCBs.

Liberty maintains responsibility for the transformer, and if the transformer was "PCB contaminated," Liberty is not required to replace the transformers fluids until a release is identified. However, evidence of current or prior releases was not observed in the vicinity of the electrical equipment during the site reconnaissance.

Releases or Potential Releases

Trash, debris, and/or other waste materials

Most of the trash and debris observed on the site was once inside the Old Freeman Hospital building. Vandals have broken windows and thrown items outside; this includes a 5-gallon bucket of roof & foundation coating and piping materials from interior plumbing. Trash items were observed in the below ground level window wells on the north and south areas of the building. Staining and/or indications of a chemical spill/release were not observed in association with the trash/debris.

Construction/demolition debris and/or dumped fill dirt

A pile of gravel and rocks were observed on the north end of the building near the loading ramping. The pile was overgrown with vegetation. Staining and/or indications of a chemical spill/release were not observed in association with the gravel/rock pile.

Other Notable Site Features

Other

The Old Freeman Building is currently in a state of despair. There are no working utilities to the building. The ceiling has collapsed in several different areas and on several different floors. The interior walls are cracked and falling apart and the paint is peeling. Mr. Kraft indicated there is lead-based paint in the building. There were also obvious signs of water intrusion and microbial growth throughout the building.

6.0 Adjoining Property Reconnaissance

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

Adjoining Properties

Direction	Description
North	Vacant lot followed by W. 20th Street 1918 S. Sergeant: Treehouse Academy/residence
East	S. Sergeant Ave. 2007 S. Sergeant: Reece Nichols Realty office 2001 S. Sergeant: Able Body Chiropractic
South	705/707 W. 21st St.: Residential W. 21st St.

Direction	Description
West	2011 – 2021 S. Jackson Ave: Residential 712 W. 20th St.: Vacant (previous restaurant)

RECs associated with the current adjoining properties were not identified.

7.0 Additional Services

Per the agreed scope of services specified in the proposal, additional services (asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

8.0 Declaration

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

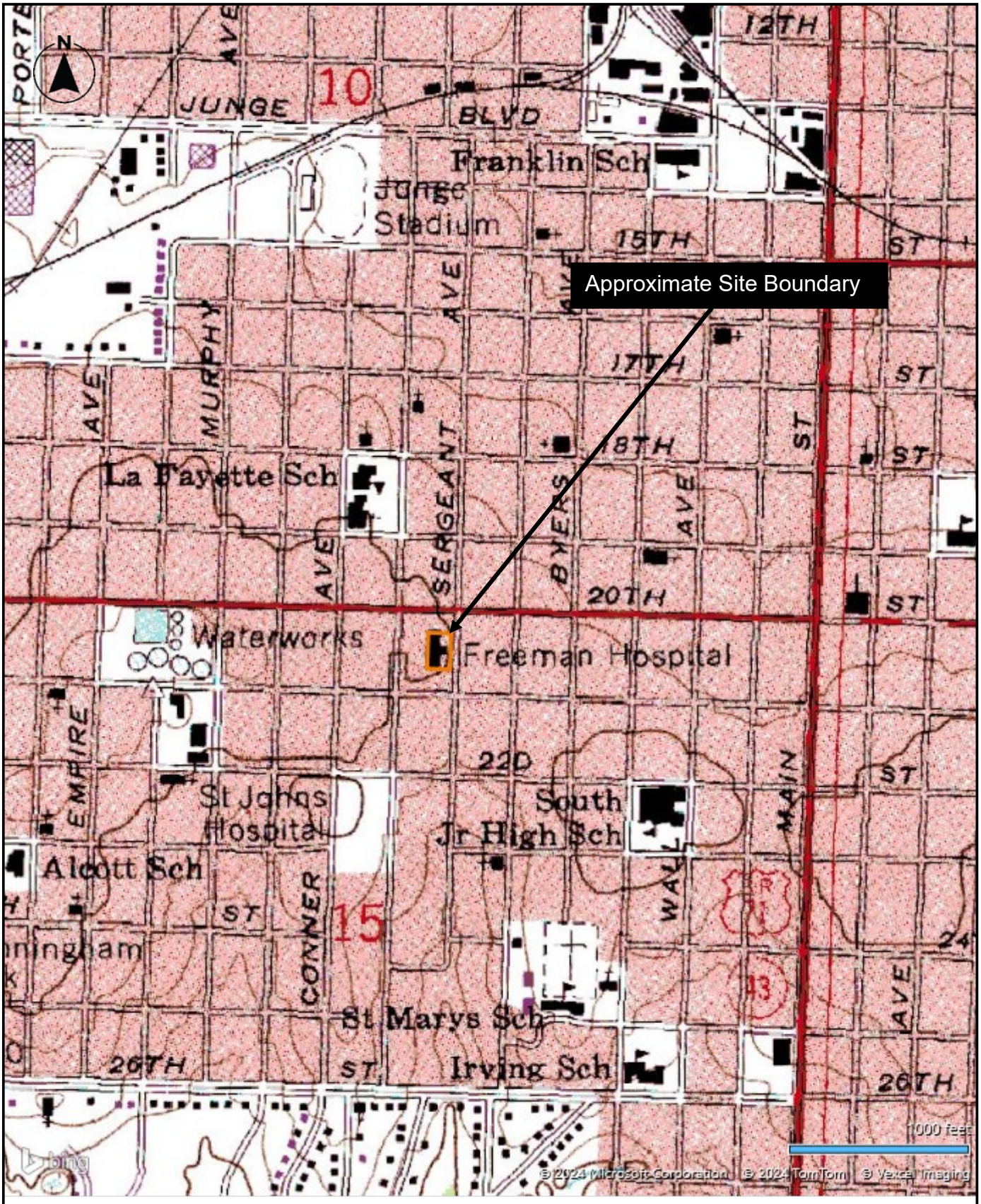
_____

C. Rand Raglin
Due Diligence Manager

APPENDIX A

EXHIBIT 1 – TOPOGRAPHIC MAP

EXHIBIT 2 – SITE DIAGRAM



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: JOPLIN WEST, MO (1/1/1978) and JOPLIN EAST, MO (1/1/1978).

Project Manager: MLC Drawn by: MLC Checked by: CRR Approved by: CRR	Project No. B524706 Scale: 1"=2,000' File Name: Exhibits Date: 12/10/2024	Terracon **4765 W Junction St** **Springfield, MO 65802-1013**	TOPOGRAPHIC MAP Old Freeman Hospital **2008 S. Sergeant Ave.** **Joplin, MO**	Exhibit 1



DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

Project Manager: MLC Drawn by: MLC Checked by: CRR Approved by: CRR	Project No. B524706 Scale: AS SHOWN File Name: Exhibits Date: 12/10/2024	Terracon 4765 W Junction St Springfield, MO 65802-1013	SITE DIAGRAM Old Freeman Hospital **2008 S. Sergeant Ave.** **Joplin, MO**	Exhibit 2

APPENDIX B

SITE PHOTOGRAPHS

Phase I Environmental Site Assessment – Photographic Log
Old Freeman Hospital ■ Joplin, Missouri
Site visit: 12/13/2024 ■ Terracon Project No. B5247061



Photo #1 View of Old Freeman Hospital



Photo #2 View inside the entry door

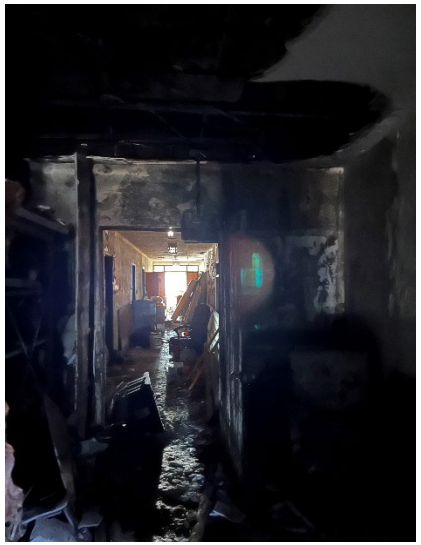


Photo #3 View of the 1st floor hallway, facing the entry door



Photo #4 Storage room on 1st floor



Photo #5 Storage room on 1st floor



Photo #6 Empty drum



Photo #7 55-gallon drums in basement



Photo #8 View of interior hallway



Photo #9 View of an elevator in basement

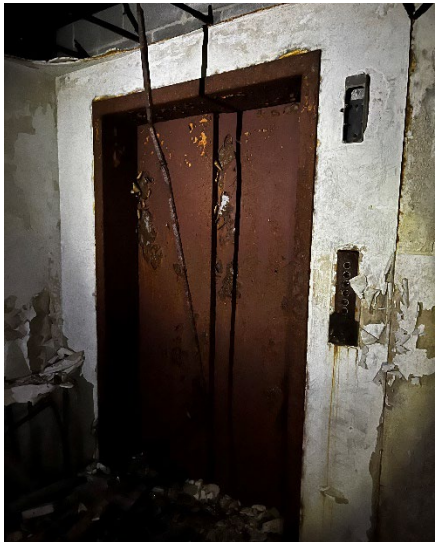


Photo #10 View of an elevator door



Photo #11 View of one boiler

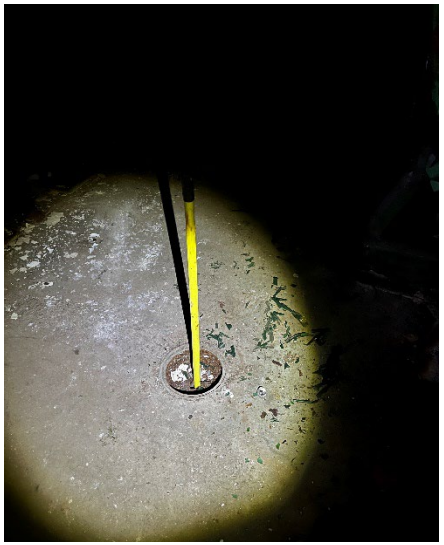


Photo #12 View of interior floor drain



Photo #13 View of interior hallway



Photo #14 View in the kitchen area

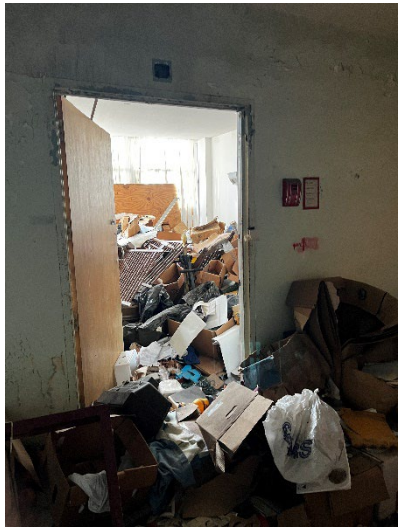


Photo #15 View of a room previously used for storage



Photo #16 View of an interior hallway on 3rd floor

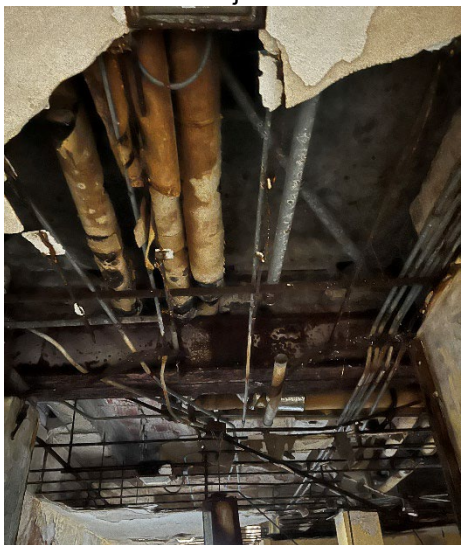


Photo #17 View of collapsed ceiling



Photo #18 View of elevator shaft

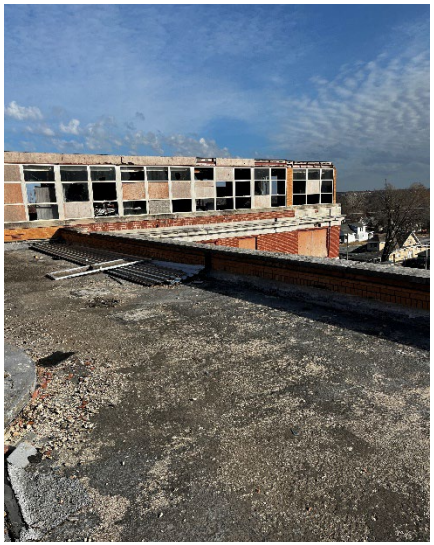


Photo #19 View of roof

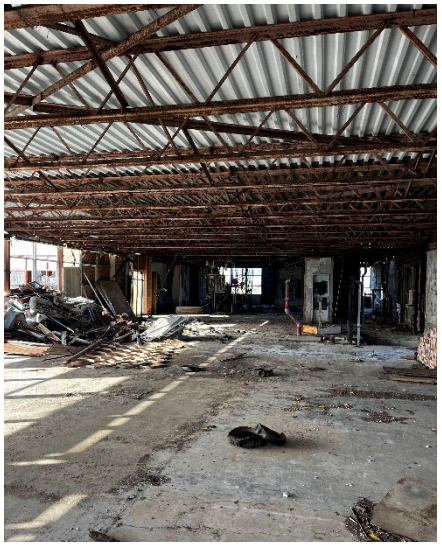


Photo #20 View of interior roof room



Photo #21 View of roof & foundation coating



Photo #22 View at the southeast corner of the site facing west



Photo #23 View facing south at southeast corner of the site



Photo #24 View of south adjoining residence



Photo #25 View of east adjoining realtor office

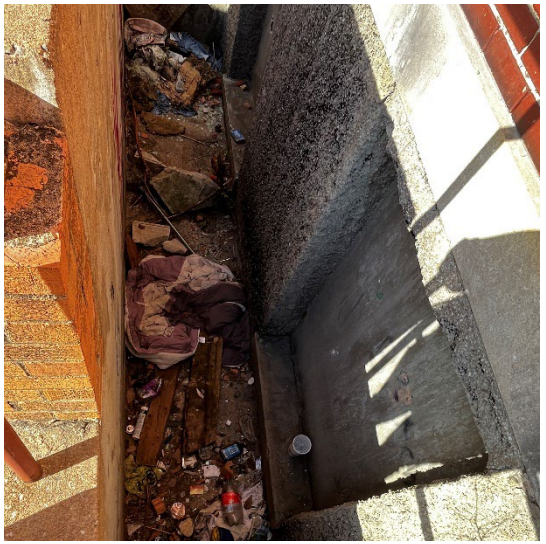


Photo #26 View of trash and debris in the window wells



Photo #27 View of the site facing southwest at the northeast corner of the site



Photo #28 View of the east adjoining chiropractic office



Photo #29 View of the empty north lot and the west adjoining property



Photo #30 View of the north adjoining residence and daycare



Photo #31 View of the alley on the west side of the site facing south



Photo #32 View of an west adjoining residence



Photo #33 View of the loading area on the north side of the building



Photo #34 View of debris in the window wells

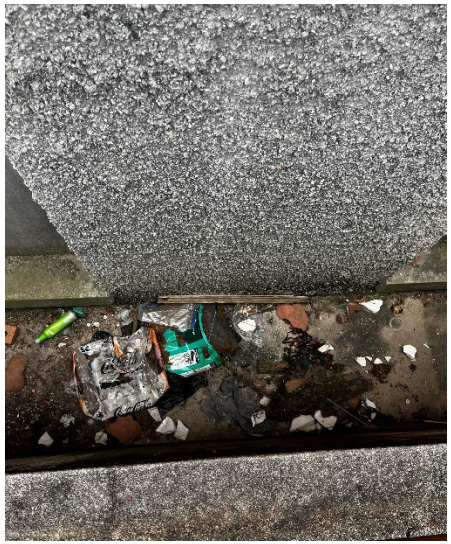


Photo #35 View of trash and debris in the window wells



Photo #36 View of the gravel pile located near the loading dock



Photo #37 View of the facing south at the southwest corner of the site



Photo #38 View of the west adjoining residences

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

ASTM E1527-21 User Questionnaire

Date Completed	11-21-24	
Person Completing Questionnaire	Name: Thomas Walters Company: City of Joplin	Phone: (417) 624-0820 x1539 Email: twalters@joplinmo.org
Site Name	Old Freeman Hospital	
Site Address	2008 S. Sergeant Ave., Joplin, Missouri	
Point of Contact for Access	Name: Company:	Phone: Email:
Access Restrictions or Special Site Requirements?	___No ___X___Yes (If yes, please explain) Must contact Owner	
Confidentiality Requirements?	___No ___Yes (If yes, please explain)	
Current Site Owner	Name: Randal Kraft Company:	Phone: Email: rkraft@kraftins.com
Current Site Operator	Name: Company:	Phone: Email:
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	Demolition	
Anticipated Future Site Use	Residential	
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.	

ASTM User Questionnaire

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 respond to the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate* inquiries" is not complete.

1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)?
___X___No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

2) Did a search of land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.26)?
___X___No ___Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)

3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)?
___X___No ___Yes (If yes, explain below)

4) Do you have actual knowledge of a lower purchase price because contamination is known or believed to be present at the site (40 CFR 312.29)?
___X___No ___Yes ___Not applicable (If yes or Not applicable, explain below)

5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? For example, (a.) Do you know the past uses of the site? (b.) Do you know of specific chemicals that are present or once were present at the site? (c.) Do you know of spills or other chemical releases that have taken place at the site? (d.) Do you know of any environmental cleanups that have taken place at the site?
___No ___X___Yes (If yes, explain below) Sanborn shows heat oil tank once present

6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of releases at the site (40 CFR 312.31)?
___X___No ___Yes (If yes, explain below)

Comments or explanations:

Please return this form with the signed authorization to proceed.

Proposal No. PB5247061

Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, MO 64804

Inquiry Number: 7830457.4
November 22, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

11/22/24

Site Name:

Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, MO 64804
EDR Inquiry # 7830457.4

Client Name:

Terracon
4765 W. Junction St
Springfield, MO 65802
Contact: Mandy Carlson

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

Search Results:

P.O.# B5247061
Project: Old Freeman Hospital

Coordinates:

Latitude:	37.069049 37° 4' 9" North
Longitude:	-94.521276 -94° 31' 17" West
UTM Zone:	Zone 15 North
UTM X Meters:	364760.95
UTM Y Meters:	4103614.61
Elevation:	1051.00' above sea level

Maps Provided:

2021
2017
2015
1980
1978
1962, 1963
1894
1886

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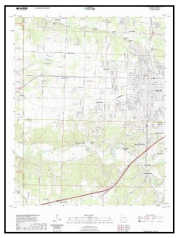
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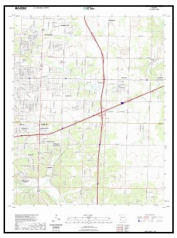
Topo Sheet Key

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

2021 Source Sheets



Joplin West
2021
7.5-minute, 24000

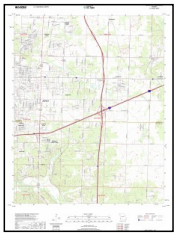


Joplin East
2021
7.5-minute, 24000

2017 Source Sheets



Joplin West
2017
7.5-minute, 24000



Joplin East
2017
7.5-minute, 24000

2015 Source Sheets



Joplin West
2015
7.5-minute, 24000



Joplin East
2015
7.5-minute, 24000

1980 Source Sheets



Joplin East
1980
7.5-minute, 24000
Aerial Photo Revised 1980

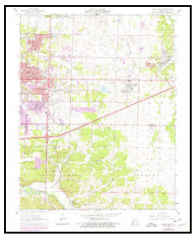


Joplin West
1980
7.5-minute, 24000
Aerial Photo Revised 1980

Topo Sheet Key

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

1978 Source Sheets

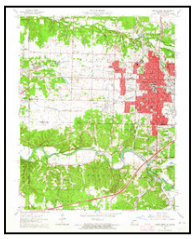


Joplin East
1978
7.5-minute, 24000
Aerial Photo Revised 1977

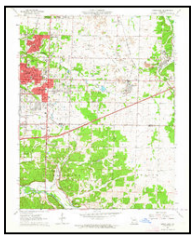


Joplin West
1978
7.5-minute, 24000
Aerial Photo Revised 1977

1962, 1963 Source Sheets



Joplin West
1962
7.5-minute, 24000
Aerial Photo Revised 1961



Joplin East
1963
7.5-minute, 24000
Aerial Photo Revised 1961

1894 Source Sheets



Joplin
1894
30-minute, 125000



Carthage
1894
30-minute, 125000

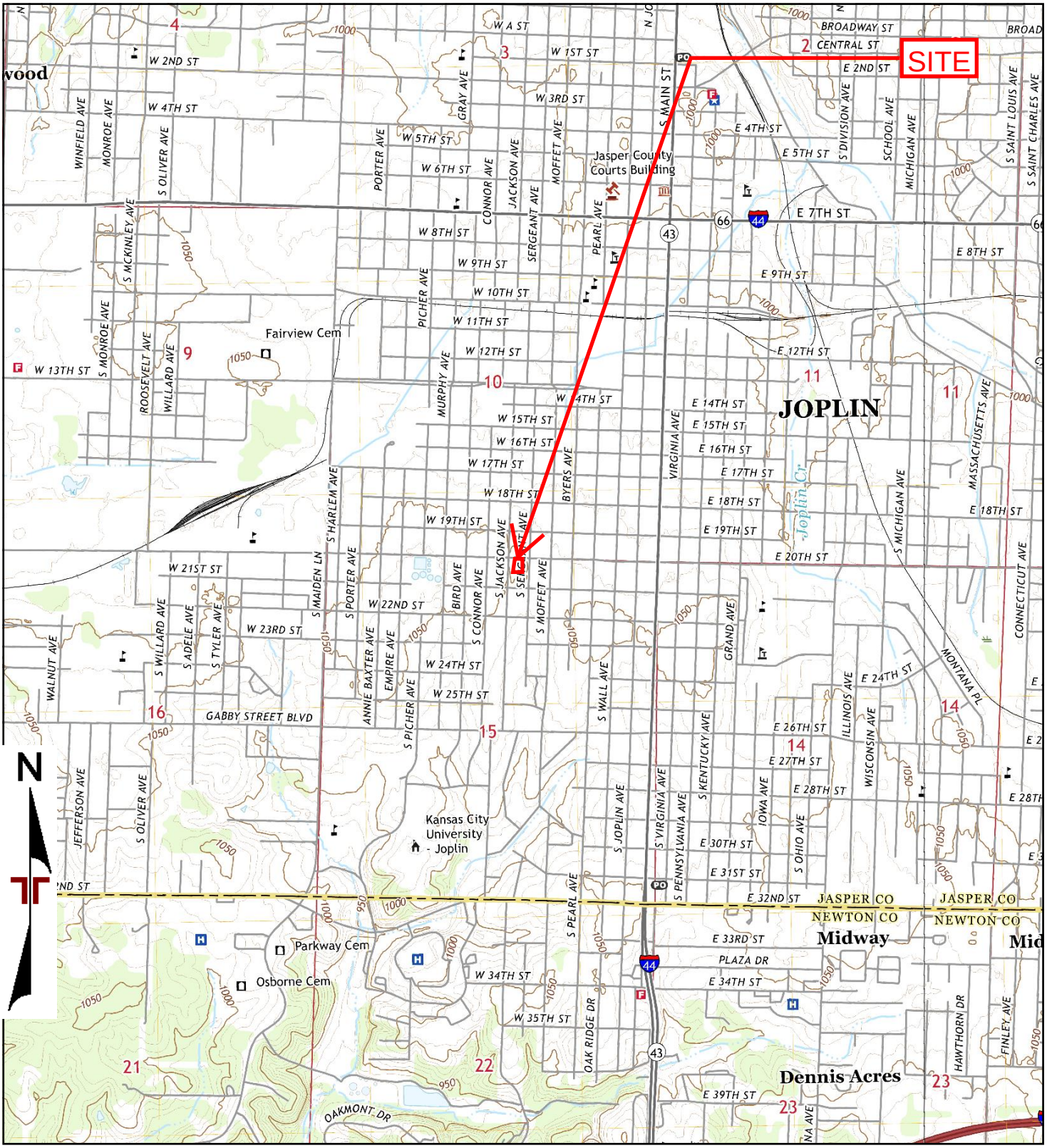
1886 Source Sheets



Joplin
1886
30-minute, 125000

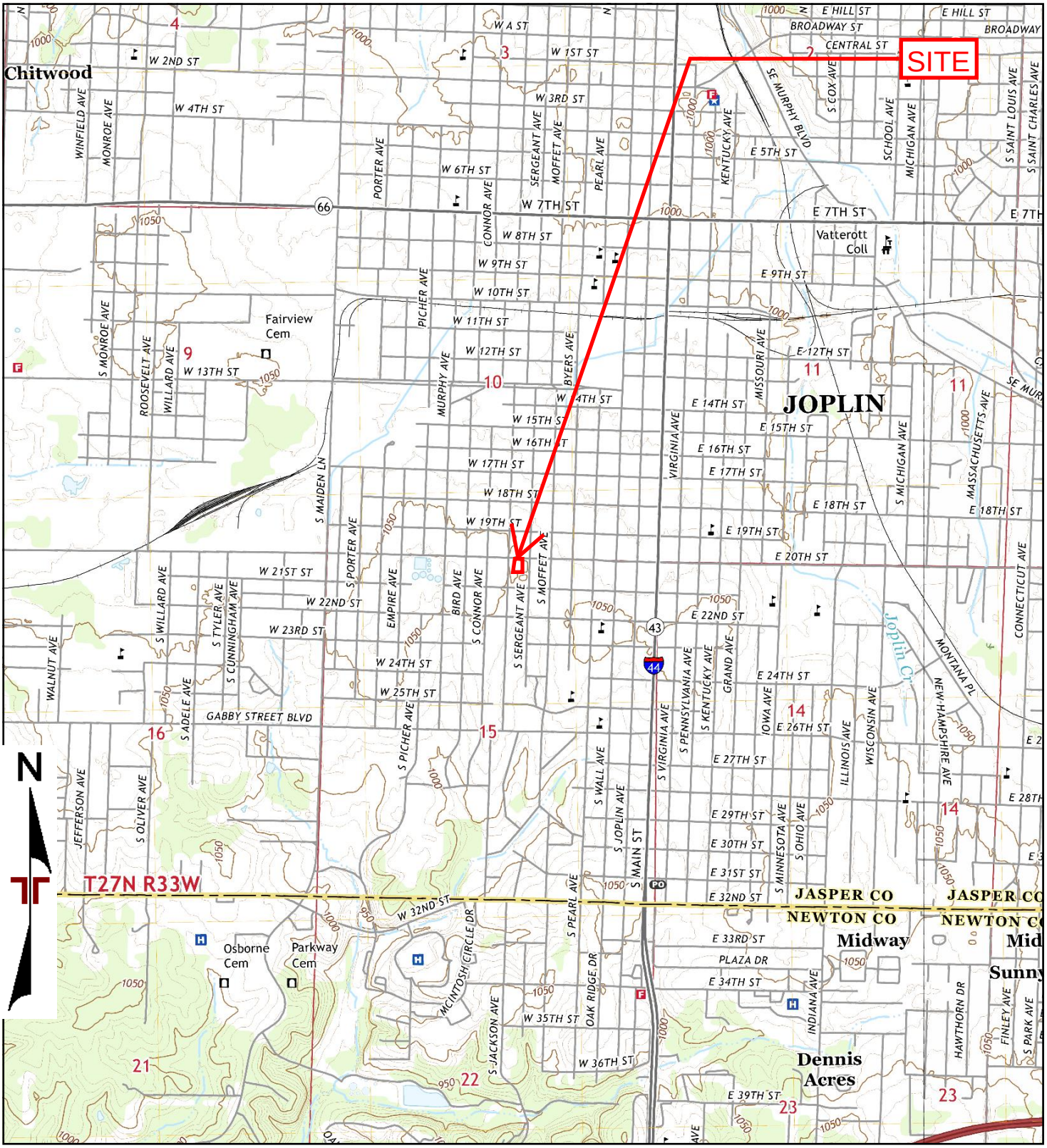


Carthage
1886
30-minute, 125000



TP, Joplin West, 2021, 7.5-minute
E, Joplin East, 2021, 7.5-minute

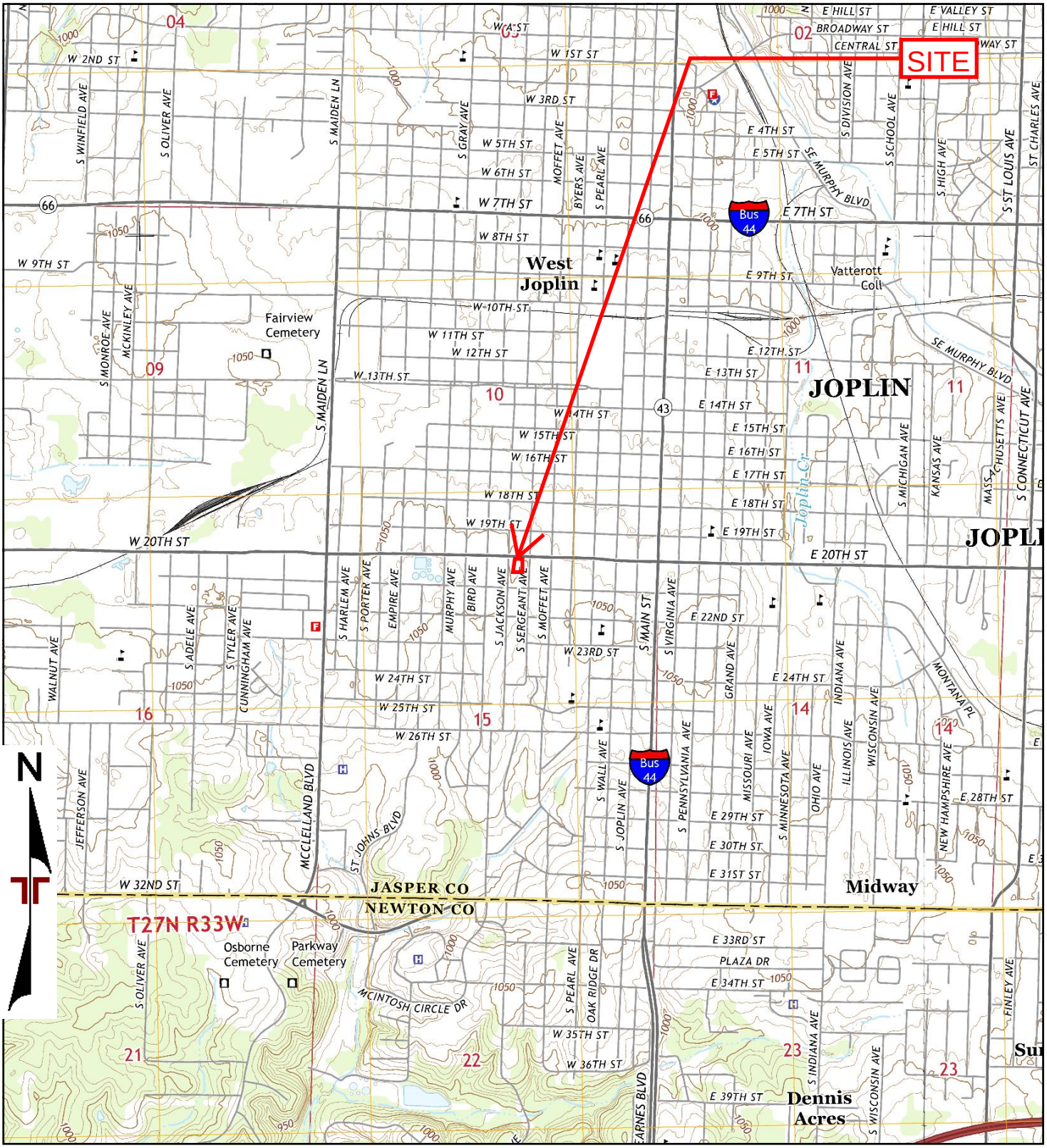
Project Manager:	Project No.: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	2021 TOPOGRAPHIC MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804
Drawn by:	Scale: As Shown		Appendix: C
Checked by:	File Name:		
Approved by:	Date: 2021		



TP, Joplin West, 2017, 7.5-minute
E, Joplin East, 2017, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No.: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	2017 TOPOGRAPHIC MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804
Drawn by:	Scale: As Shown		Appendix: C
Checked by:	File Name:		
Approved by:	Date: 2017		

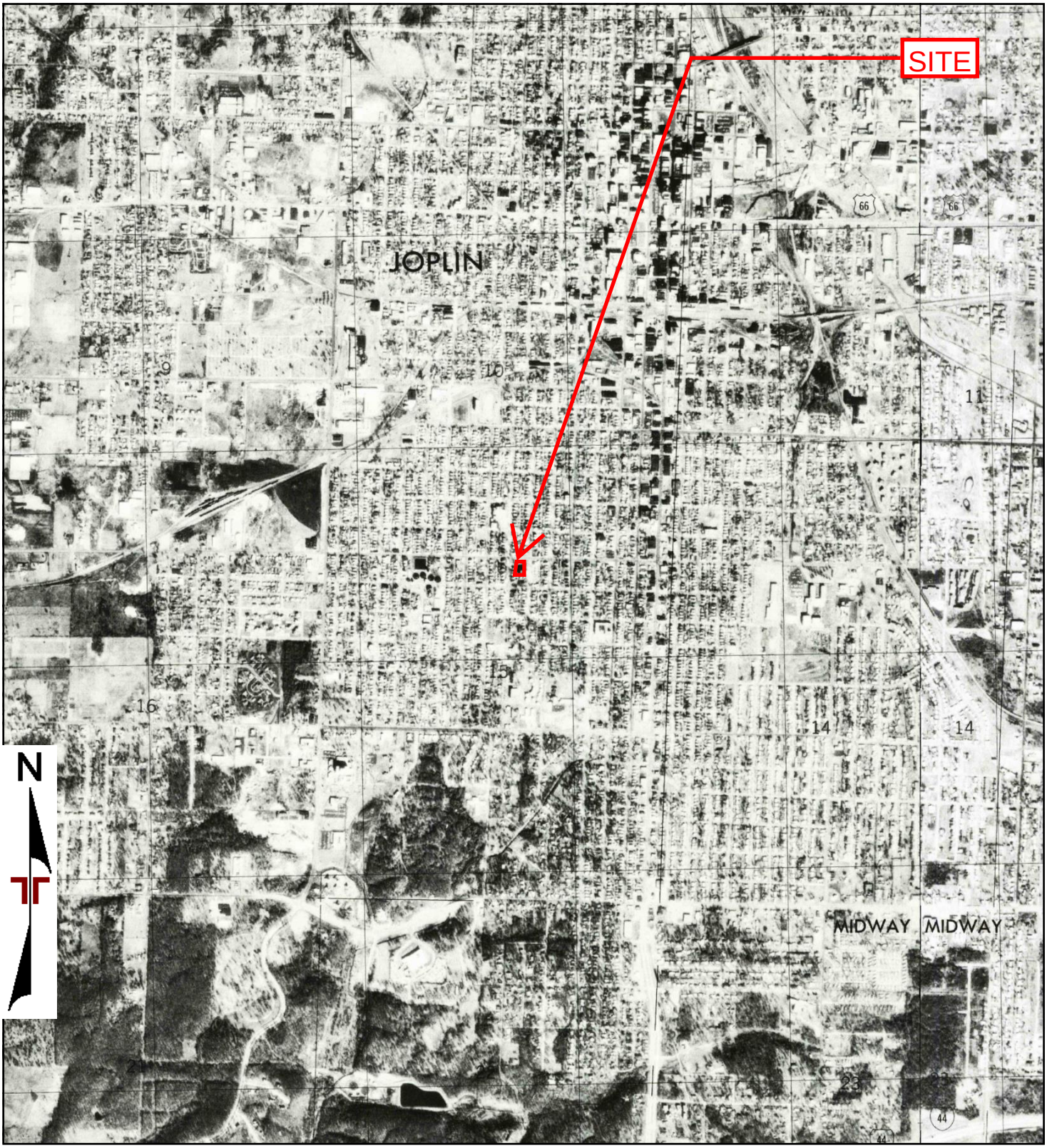


TP, Joplin West, 2015, 7.5-minute
E, Joplin East, 2015, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No.: Old Freeman Hos	2015 TOPOGRAPHIC MAP	Appendix
Drawn by:	Scale: As Shown	Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	C
Checked by:	File Name:		
Approved by:	Date: 2015		

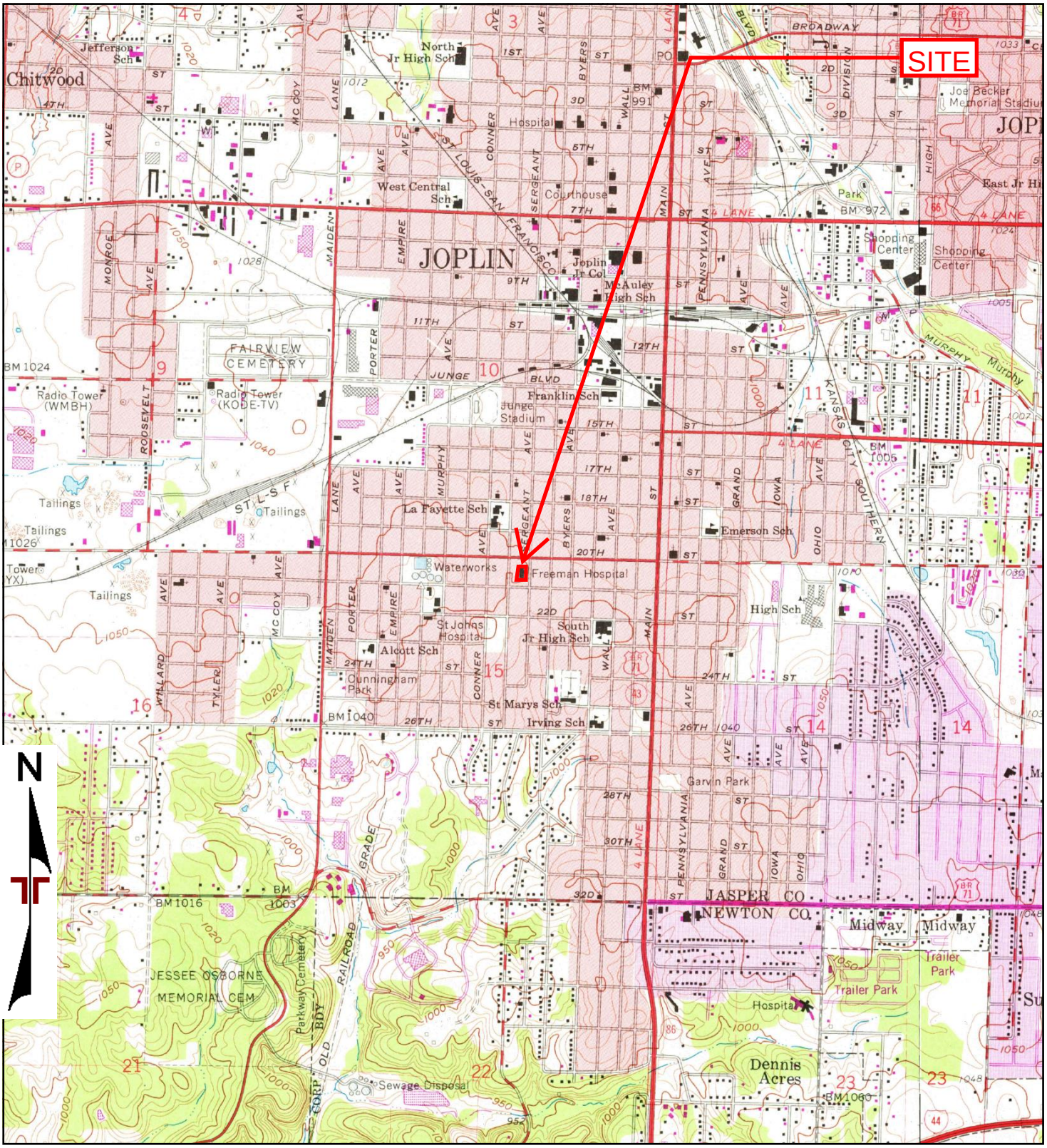
Terracon
4765 W. Junction St
Springfield, MO 65802



TP, Joplin West, 1980, 7.5-minute
E, Joplin East, 1980, 7.5-minute

0 Miles 0.25 0.5 1 1.5

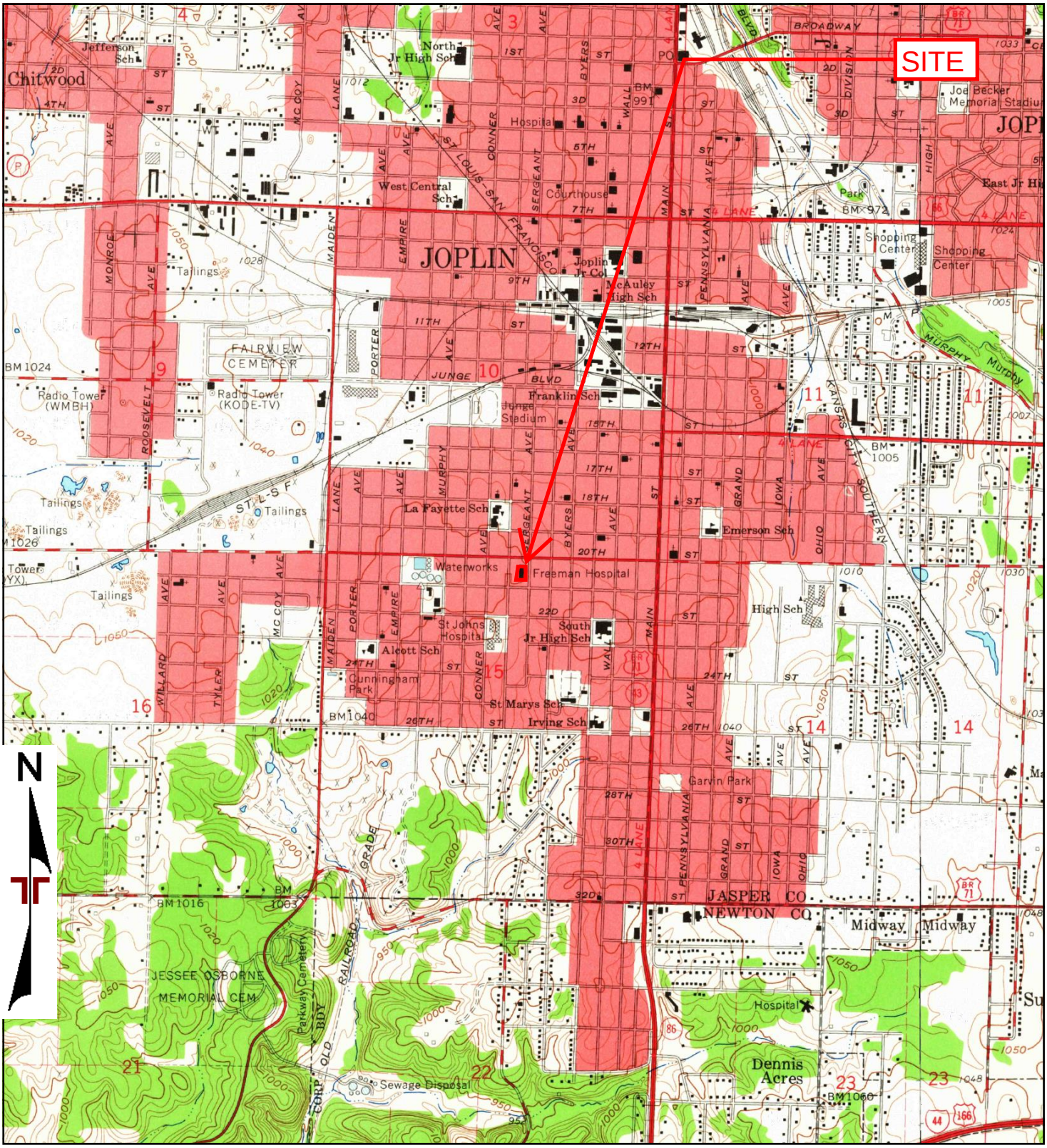
Project Manager:	Project No. Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1980 TOPOGRAPHIC MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1980			



TP, Joplin West, 1978, 7.5-minute
E, Joplin East, 1978, 7.5-minute

0 Miles 0.25 0.5 1 1.5

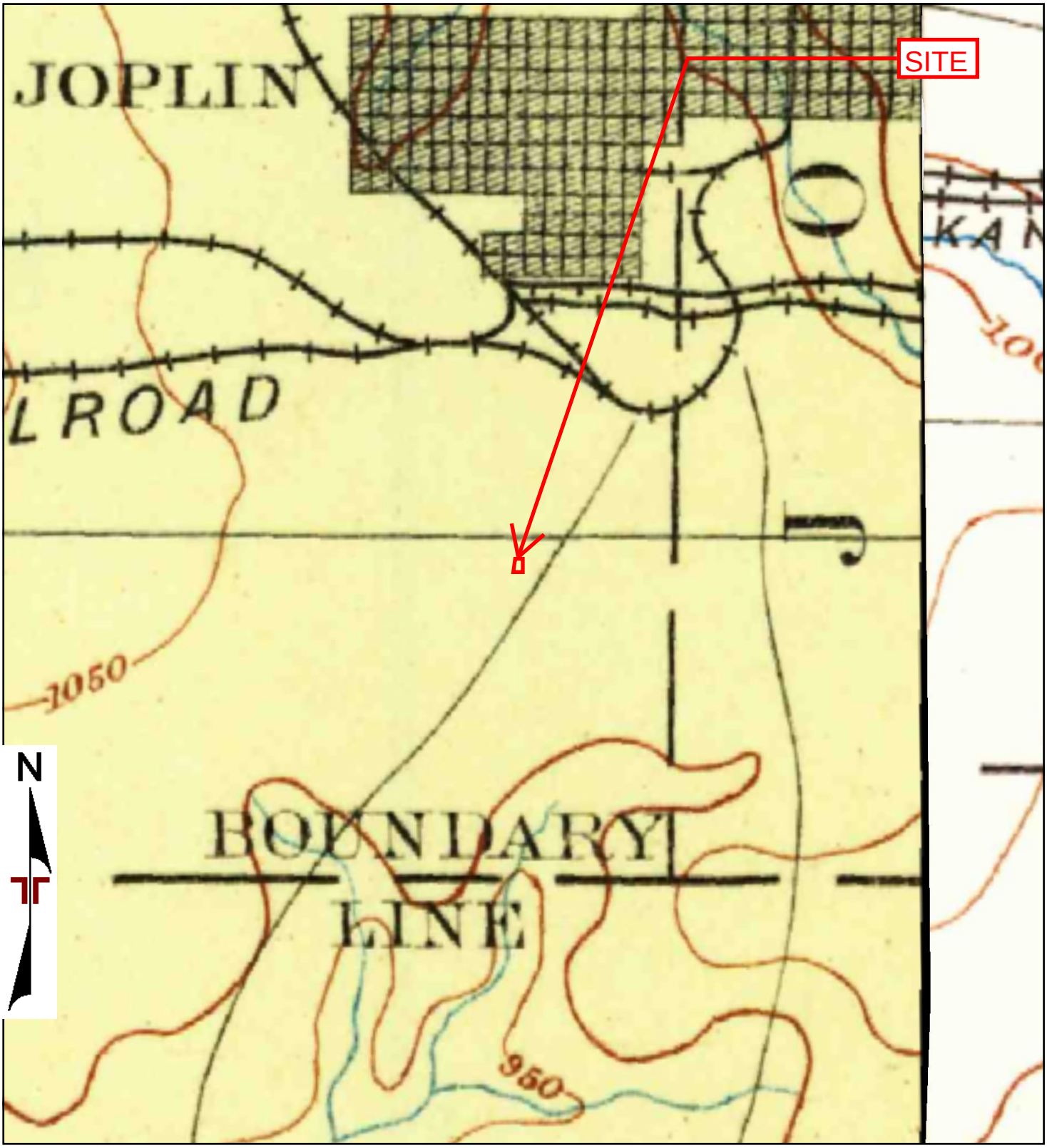
Project Manager:	Project No.: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1978 TOPOGRAPHIC MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 1978			



TP, Joplin West, 1962, 7.5-minute
E, Joplin East, 1963, 7.5-minute

0 Miles 0.25 0.5 1 1.5

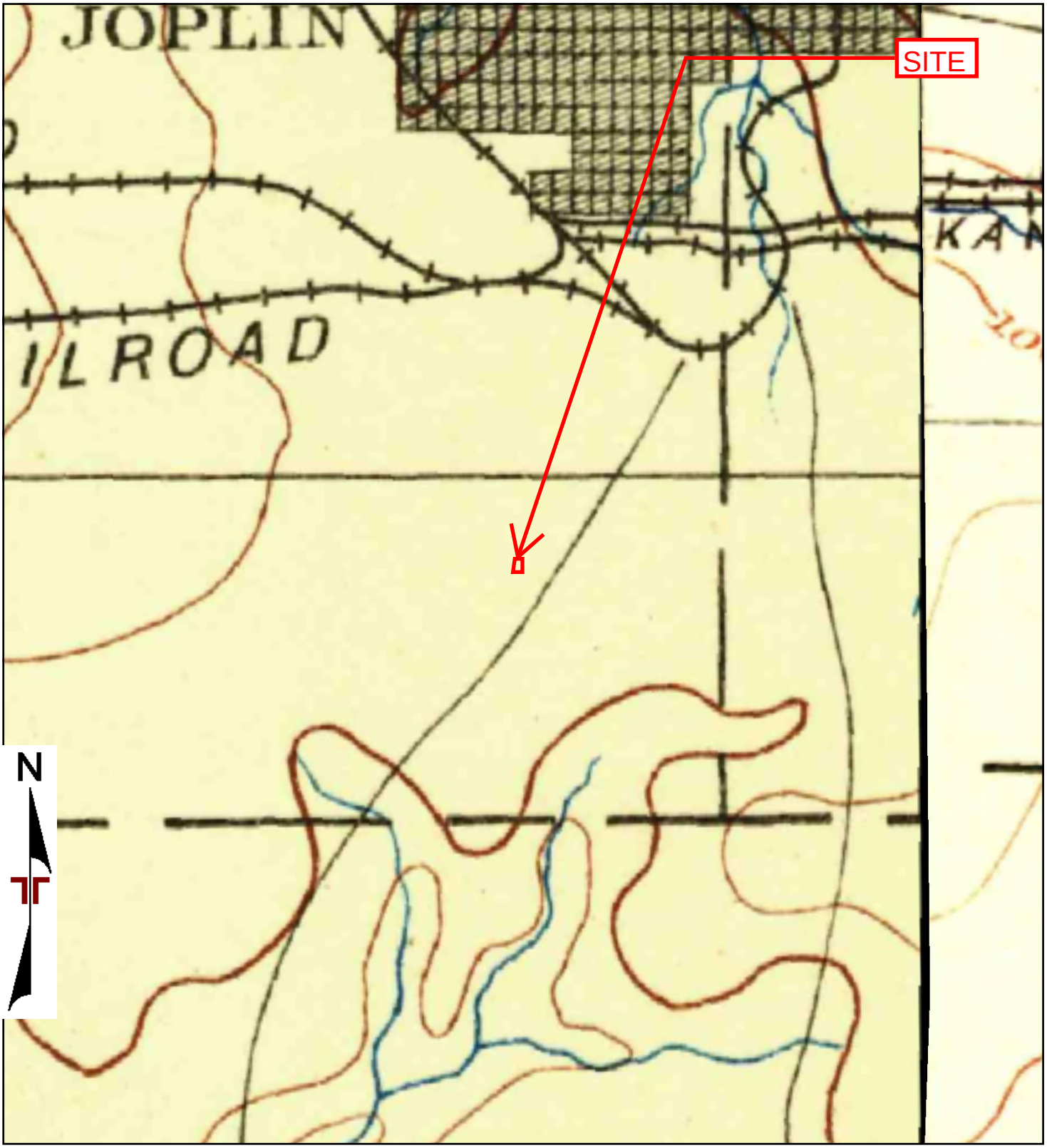
Project Manager:	Project No. Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1962, 1963 TOPOGRAPHIC MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804
Drawn by:	Scale: As Shown		Appendix C
Checked by:	File Name:		
Approved by:	Date: 1962, 1963		



TP, Joplin, 1894, 30-minute
NE, Carthage, 1894, 30-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1894 TOPOGRAPHIC MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1894			



TP, Joplin, 1886, 30-minute
NE, Carthage, 1886, 30-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1886 TOPOGRAPHIC MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1886			

Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, MO 64804

Inquiry Number: 7830457.3
November 22, 2024

Certified Sanborn® Map Report

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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11/22/24

Site Name:

Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, MO 64804
EDR Inquiry # 7830457.3

Client Name:

Terracon
4765 W. Junction St
Springfield, MO 65802
Contact: Mandy Carlson

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Certified Sanborn Results:

Certification # 38FC-4218-8290

PO # B5247061

Project Old Freeman Hospital

Maps Provided:

1967
1963
1954
1950
1906

Sanborn® Library search results

Certification #: 38FC-4218-8290

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

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Sanborn Sheet Key

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

1967 Source Sheets


Volume 1, Sheet 52
1967


Volume 1, Sheet 58
1967


Volume 1, Sheet 51
1967


Volume 1, Sheet 57
1967

1963 Source Sheets


Volume 1, Sheet 57
1963


Volume 1, Sheet 51
1963


Volume 1, Sheet 58
1963


Volume 1, Sheet 52
1963

1954 Source Sheets


Volume 1, Sheet 52
1954


Volume 1, Sheet 51
1954


Volume 1, Sheet 57
1954


Volume 1, Sheet 58
1954

1950 Source Sheets


Volume 1, Sheet 57
1950


Volume 1, Sheet 51
1950


Volume 1, Sheet 52
1950


Volume 1, Sheet 58
1950

Sanborn Sheet Key

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

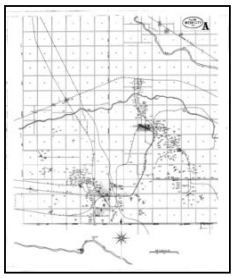
1906 Source Sheets



Volume 1, Sheet 58
1906



Volume 1, Sheet 52
1906



Volume 1, Sheet Keymap
1906



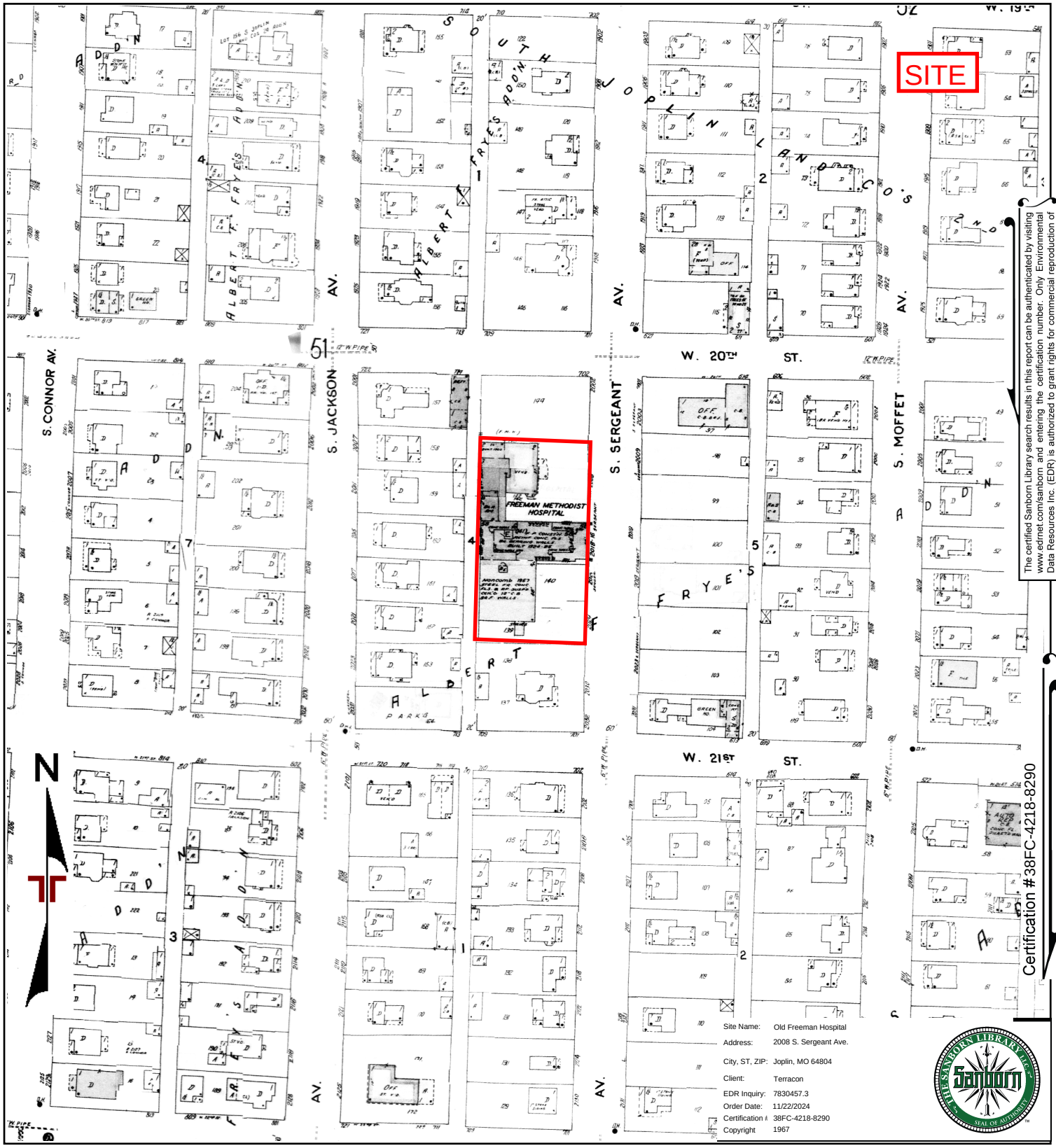
Volume 1, Sheet 51
1906



Volume 1, Sheet 57
1906

Certified Sanborn® Map

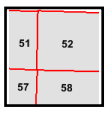
1967



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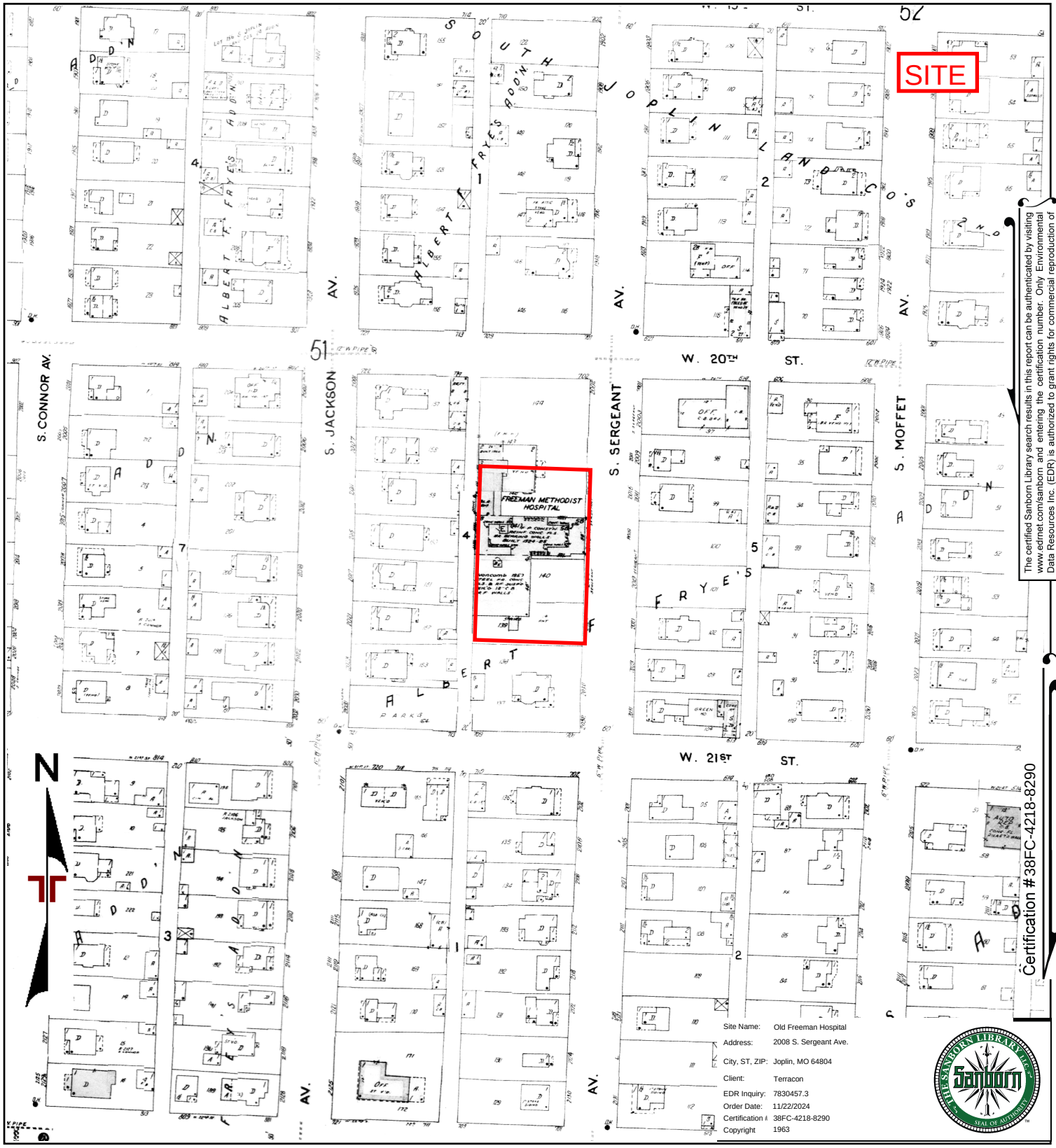
Site Name:	Old Freeman Hospital
Address:	2008 S. Sergeant Ave.
City, ST, ZIP:	Joplin, MO 64804
Client:	Terracon
EDR Inquiry:	7830457.3
Order Date:	11/22/2024
Certification #:	38FC-4218-8290
Copyright	1967



Volume 1, Sheet 57
Volume 1, Sheet 51
Volume 1, Sheet 58
Volume 1, Sheet 52

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 4765 W. Junction St Springfield, MO 65802	1967 SANBORN MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1967			



51 52 57 58

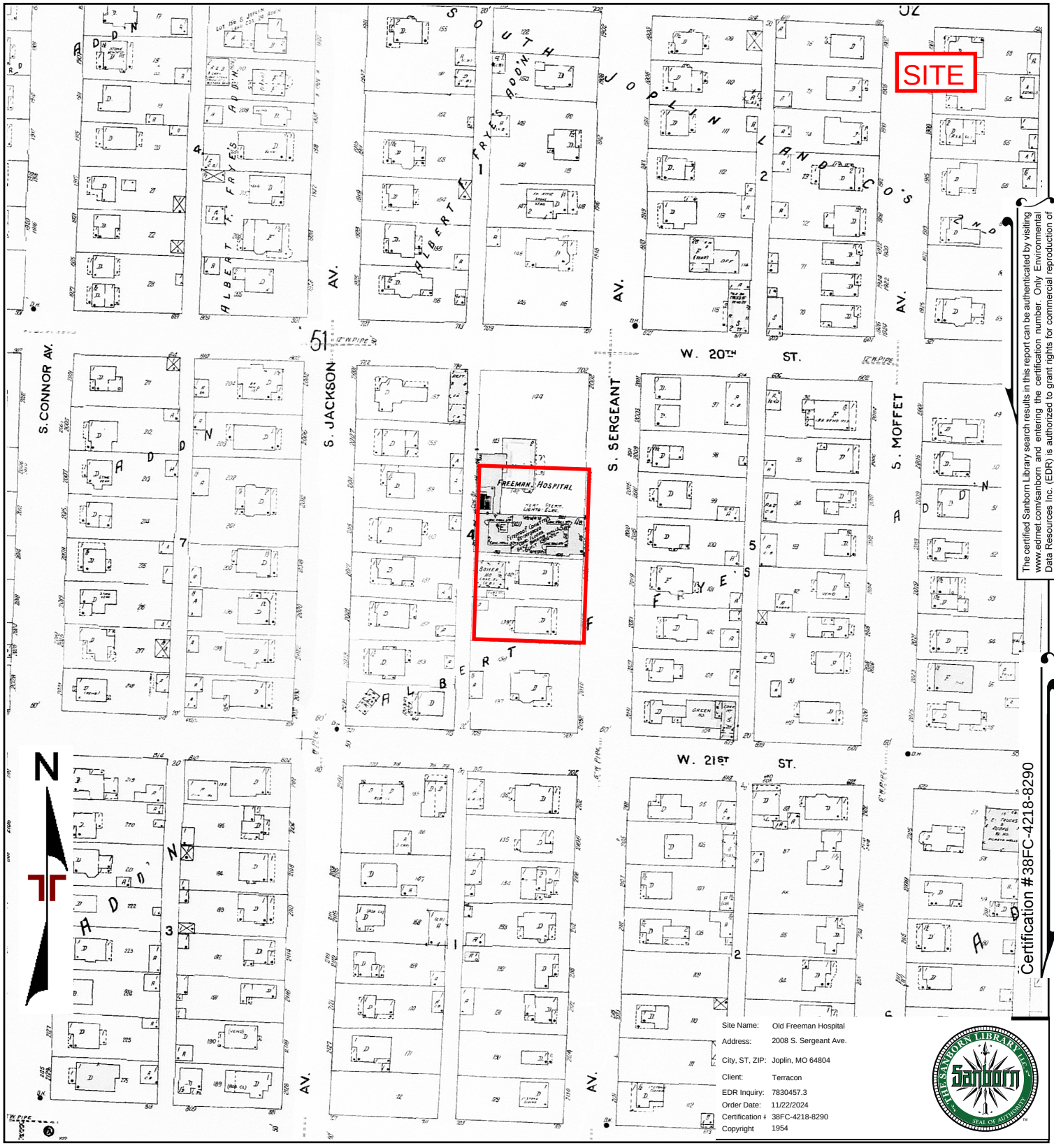
Volume 1, Sheet 52
Volume 1, Sheet 58
Volume 1, Sheet 51
Volume 1, Sheet 57

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 4765 W. Junction St Springfield, MO 65802	1963 SANBORN MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804
Drawn By:	Scale: As Shown		Appendix: C
Checked By:	File Name:		
Approved By:	Date: 1963		

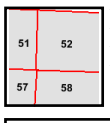
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1954



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Certification # 38FC-4218-8290



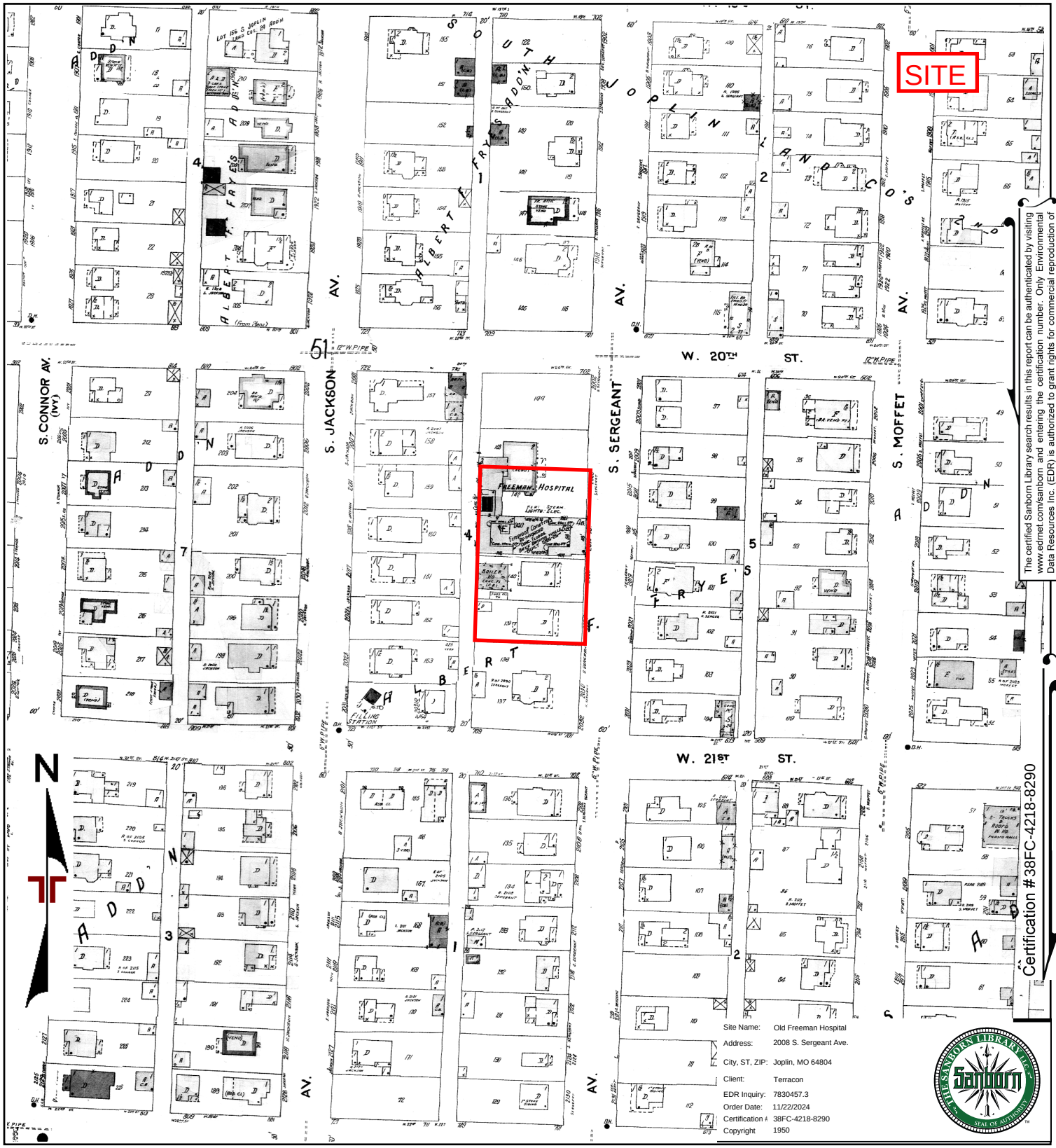
Volume 1, Sheet 58
Volume 1, Sheet 57
Volume 1, Sheet 51
Volume 1, Sheet 52

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 4765 W. Junction St Springfield, MO 65802	1954 SANBORN MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1954			

Certified Sanborn® Map

1950



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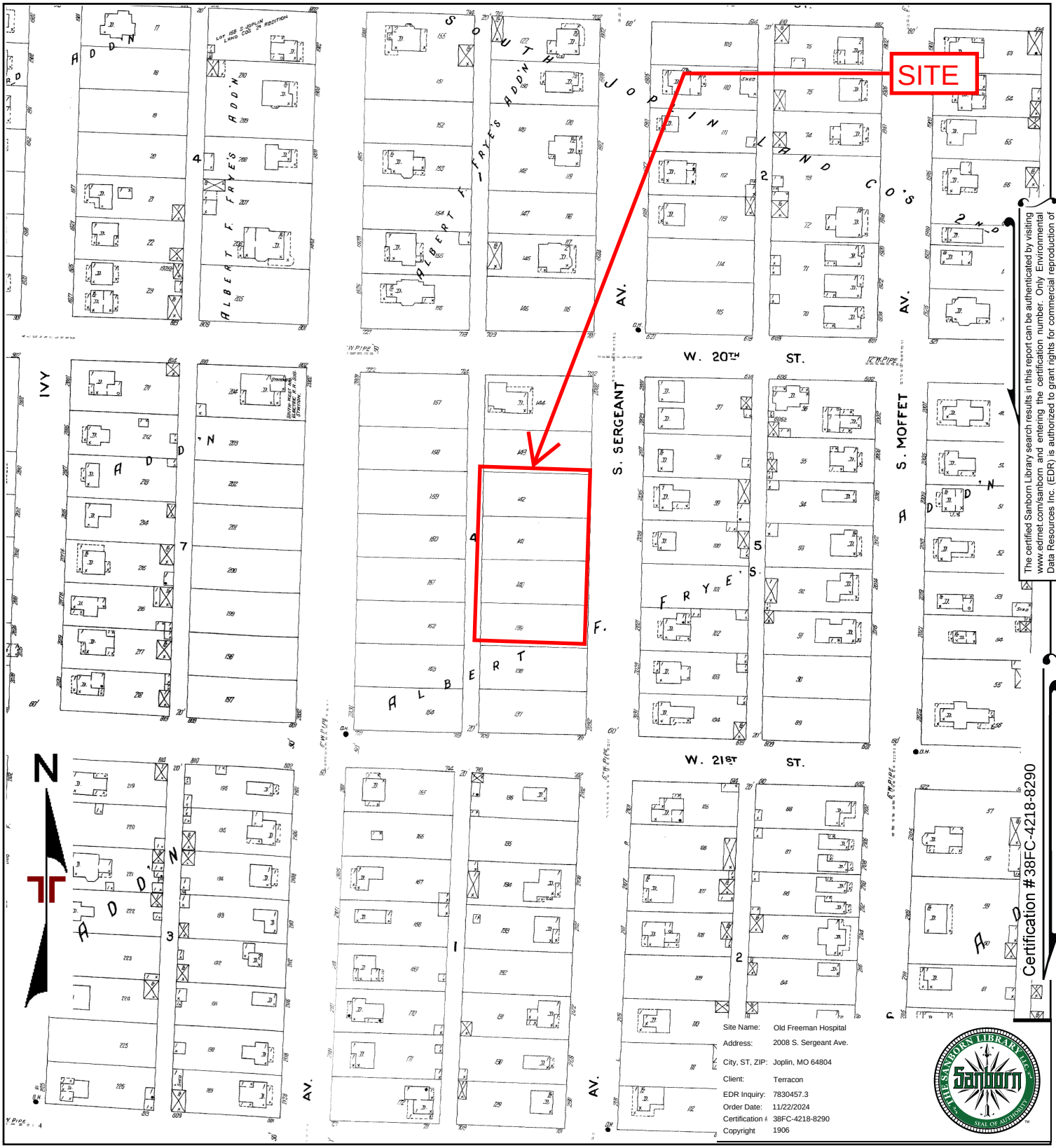
Certification # 38FC-4218-8290

51	52
57	58

Volume 1, Sheet 58
Volume 1, Sheet 52
Volume 1, Sheet 51
Volume 1, Sheet 57

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 4765 W. Junction St Springfield, MO 65802	1950 SANBORN MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804
Drawn By:	Scale: As Shown		Appendix: C
Checked By:	File Name:		
Approved By:	Date: 1950		



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51 52 Keymap 57 58

Volume 1, Sheet 57
Volume 1, Sheet 51
Volume 1, Sheet Keymap
Volume 1, Sheet 52
Volume 1, Sheet 58

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 4765 W. Junction St Springfield, MO 65802	1906 SANBORN MAP Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804
Drawn By:	Scale: As Shown		Appendix: C
Checked By:	File Name:		
Approved By:	Date: 1906		

Old Freeman Hospital

2008 S. Sergeant Ave.

Joplin, MO 64804

Inquiry Number: 7830457.8

November 25, 2024

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www.edrnet.com

EDR Aerial Photo Decade Package

11/25/24

Site Name:

Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, MO 64804
EDR Inquiry # 7830457.8

Client Name:

Terracon
4765 W. Junction St
Springfield, MO 65802
Contact: Mandy Carlson

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Search Results:

Year	*Scale*	*Details*	*Source*
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1996	1"=500'	Acquisition Date: March 07, 1996	USGS/DOQQ
1990	1"=500'	Flight Date: February 07, 1990	USGS
1985	1"=500'	Flight Date: June 28, 1985	USDA
1981	1"=500'	Flight Date: October 02, 1981	USGS
1977	1"=500'	Flight Date: February 09, 1977	USGS
1974	1"=500'	Flight Date: June 16, 1974	USDA
1961	1"=500'	Flight Date: March 24, 1961	USGS
1959	1"=500'	Flight Date: June 15, 1959	USGS
1938	1"=500'	Flight Date: July 15, 1938	USDA

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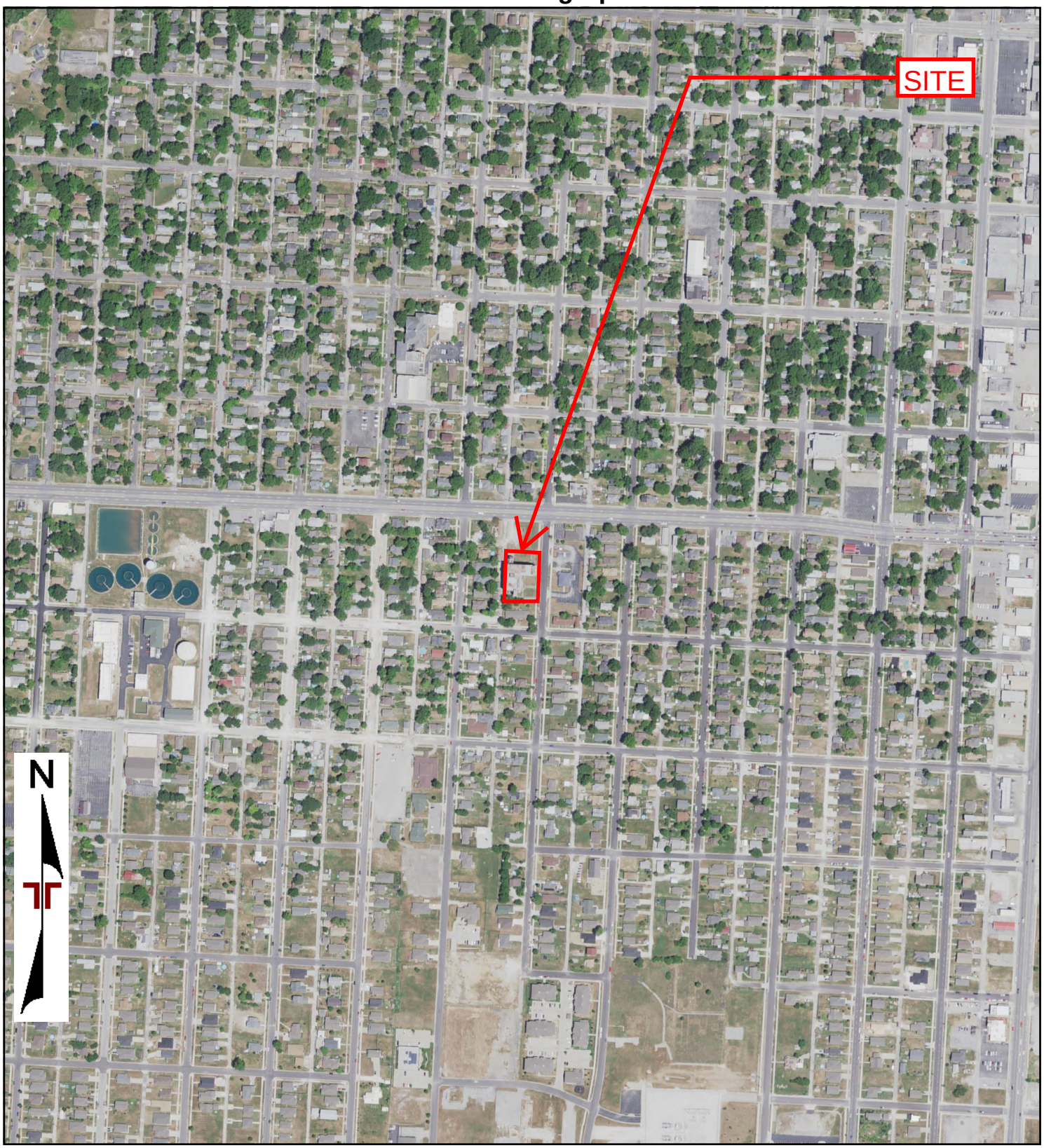
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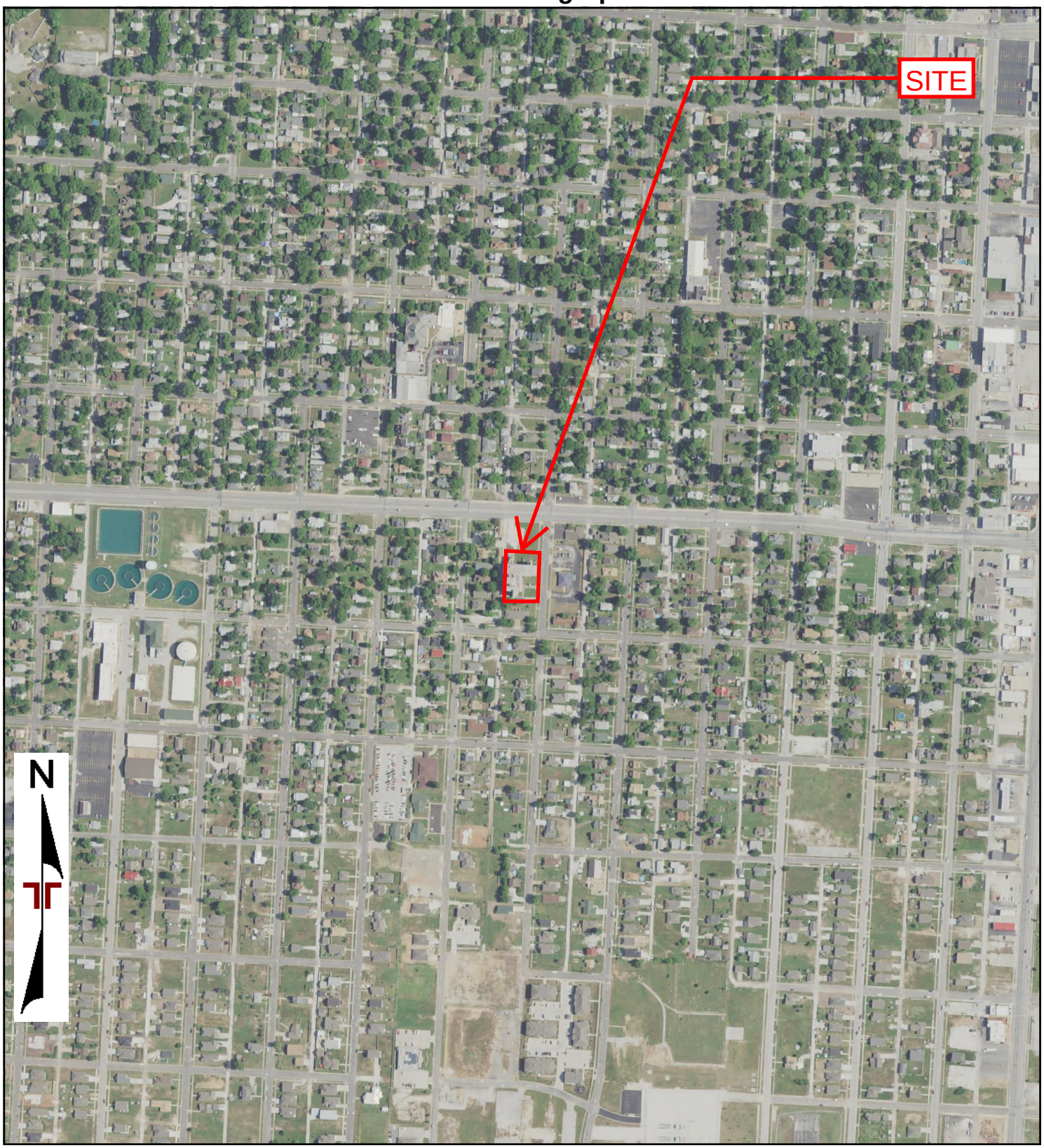
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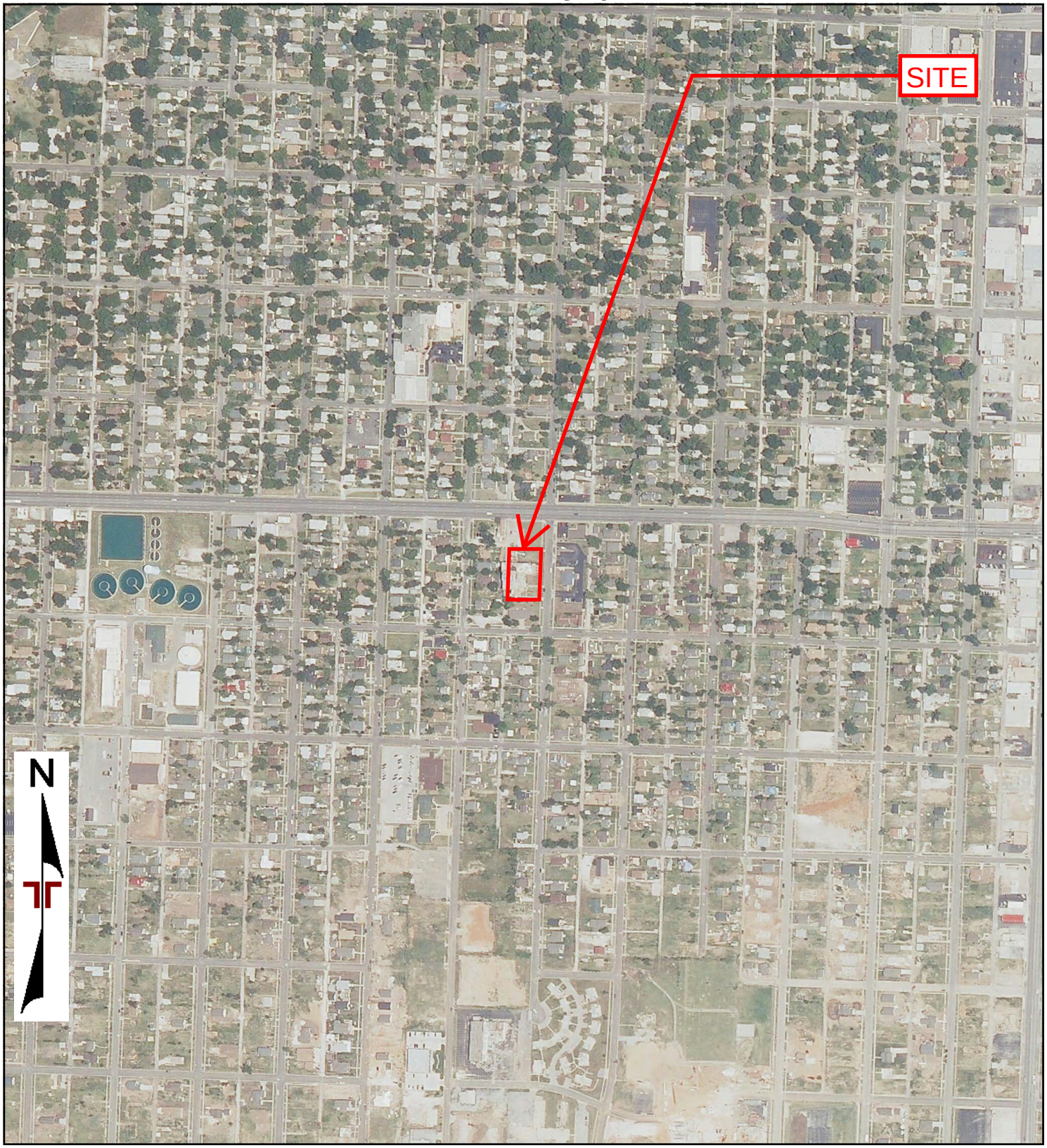
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	2020 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital	C
Checked By:	File Name:		2008 S. Sergeant Ave.	
Approved By:	Date: 2020		Joplin, MO 64804	



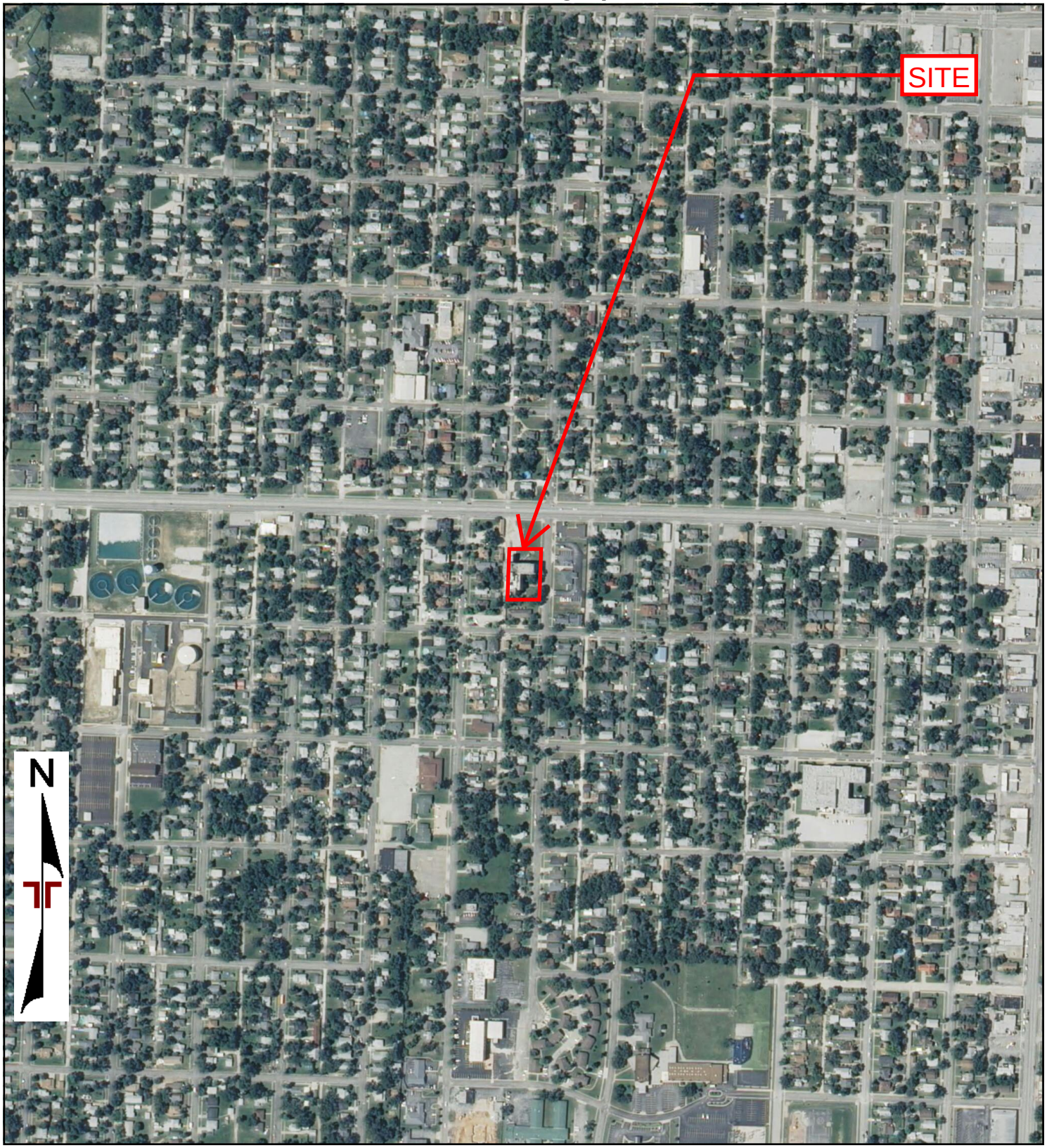
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	2016 AERIAL PHOTOGRAPH Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 2016			



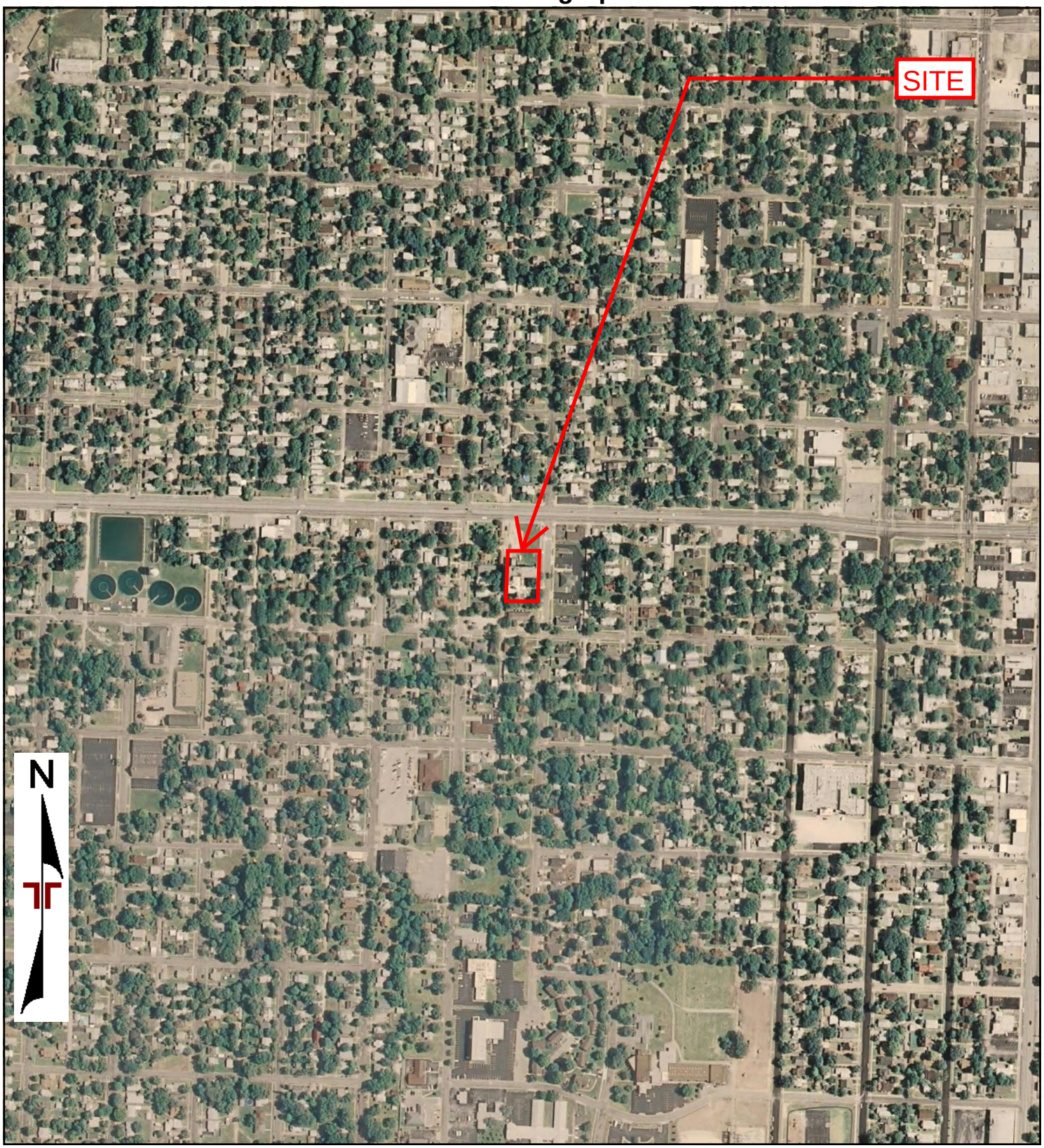
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	2012 AERIAL PHOTOGRAPH Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 2012			



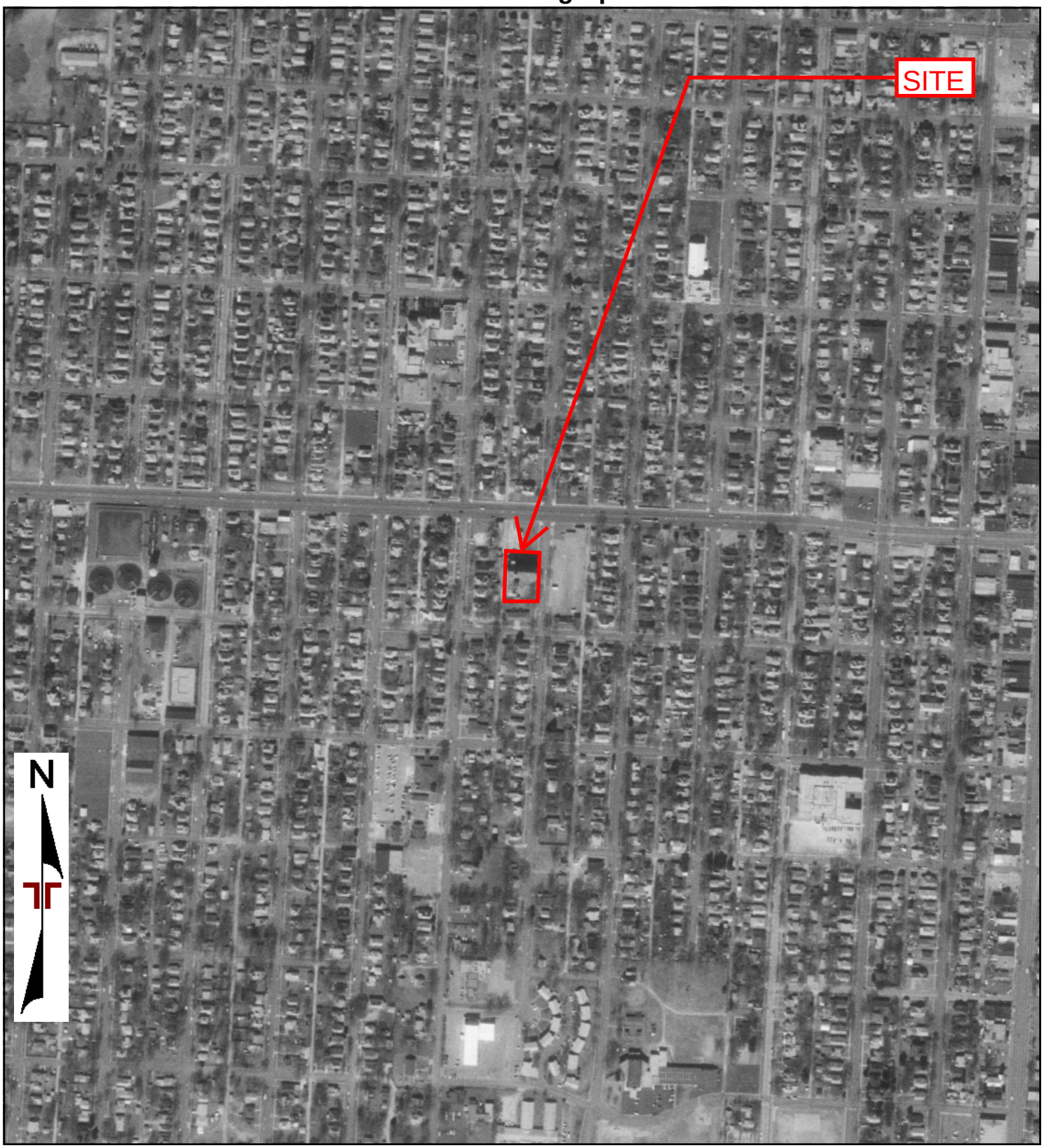
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	2009 AERIAL PHOTOGRAPH Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2009			



0 Feet 500 1000 2000

Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	2006 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	C
Checked By:	File Name:			
Approved By:	Date: 2006			



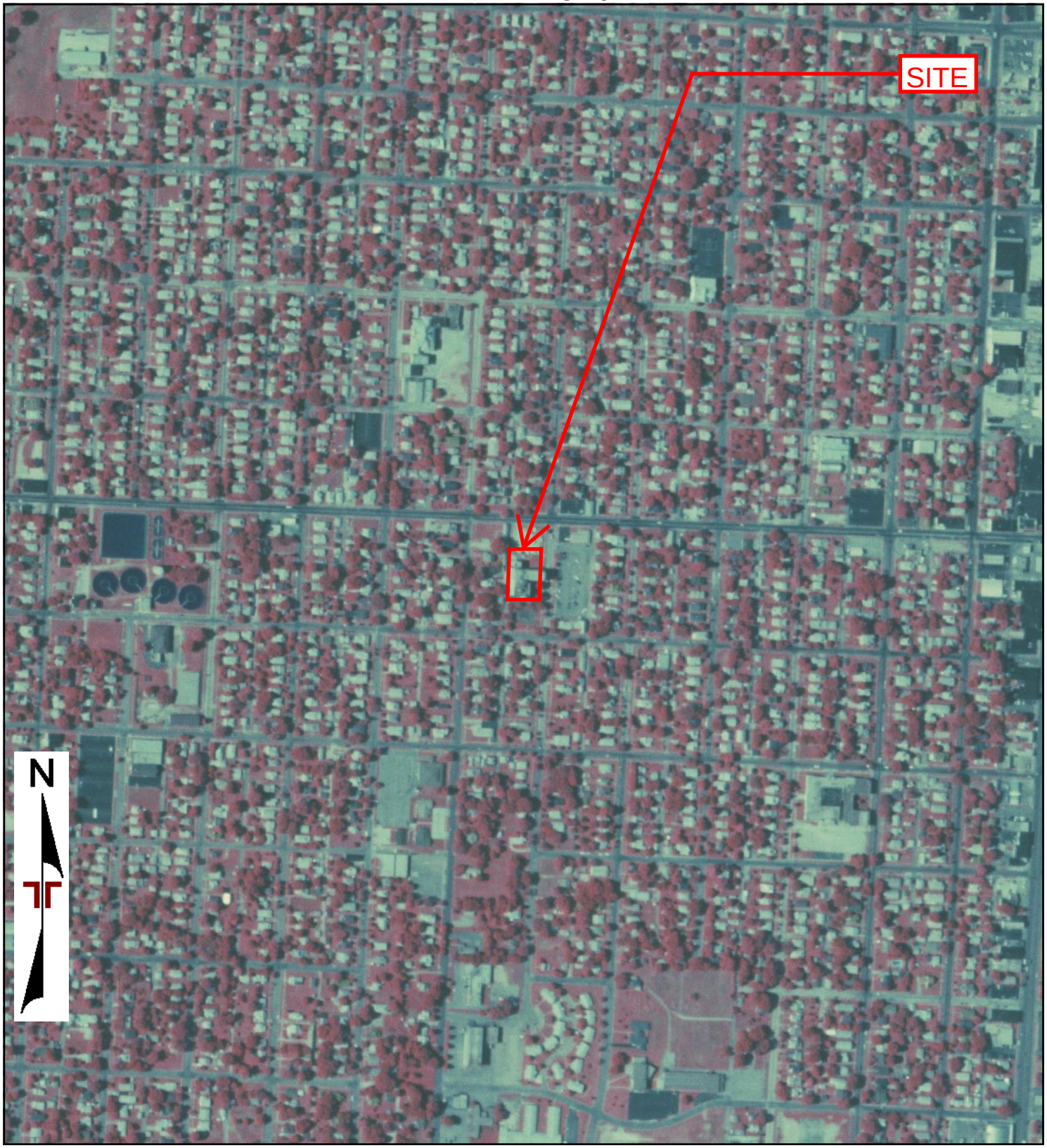
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1996 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	C
Checked By:	File Name:			
Approved By:	Date: 1996			



0 Feet 500 1000 2000

Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1990 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	C
Checked By:	File Name:			
Approved By:	Date: 1990			



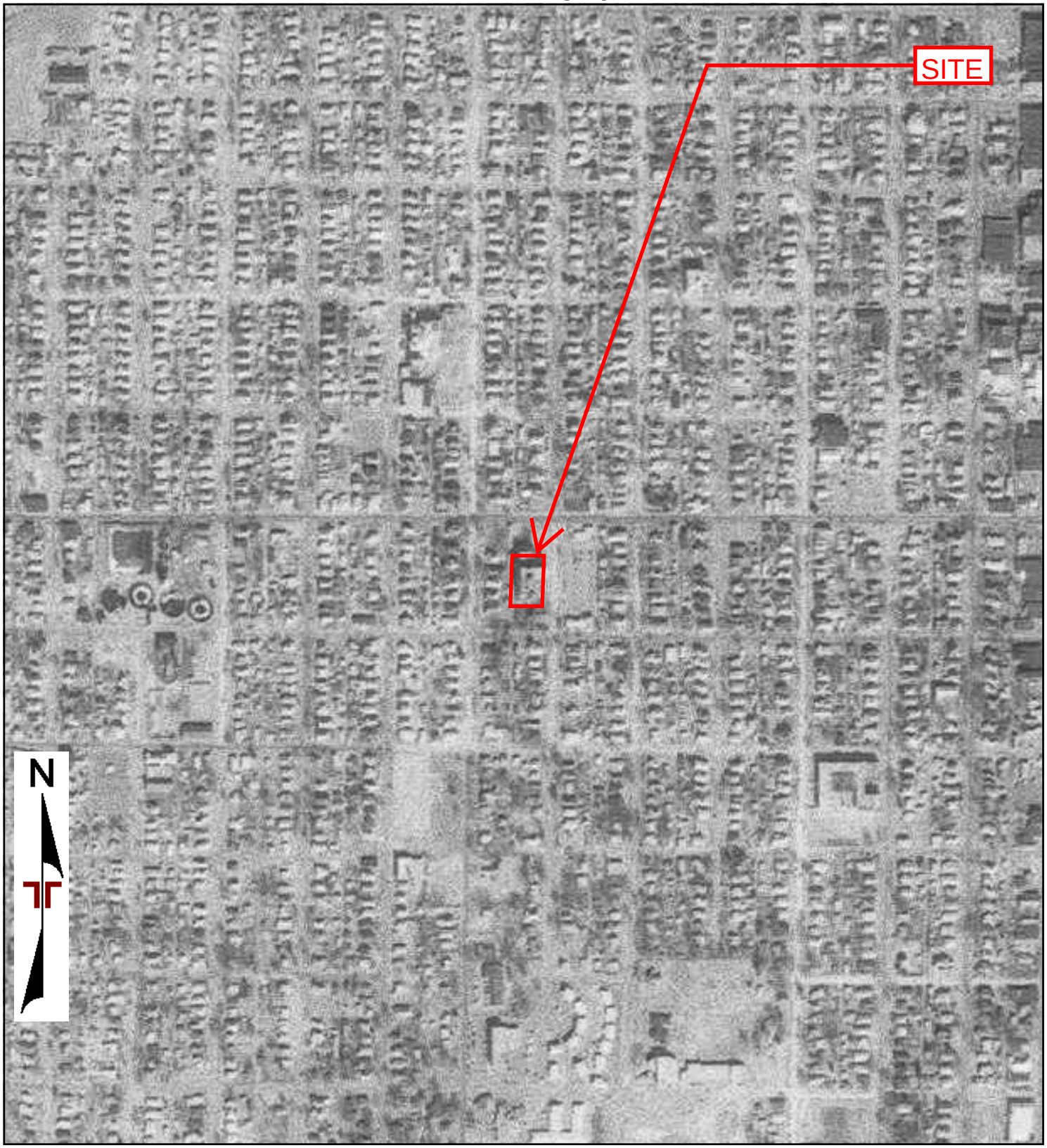
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1985 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	C
Checked By:	File Name:			
Approved By:	Date: 1985			



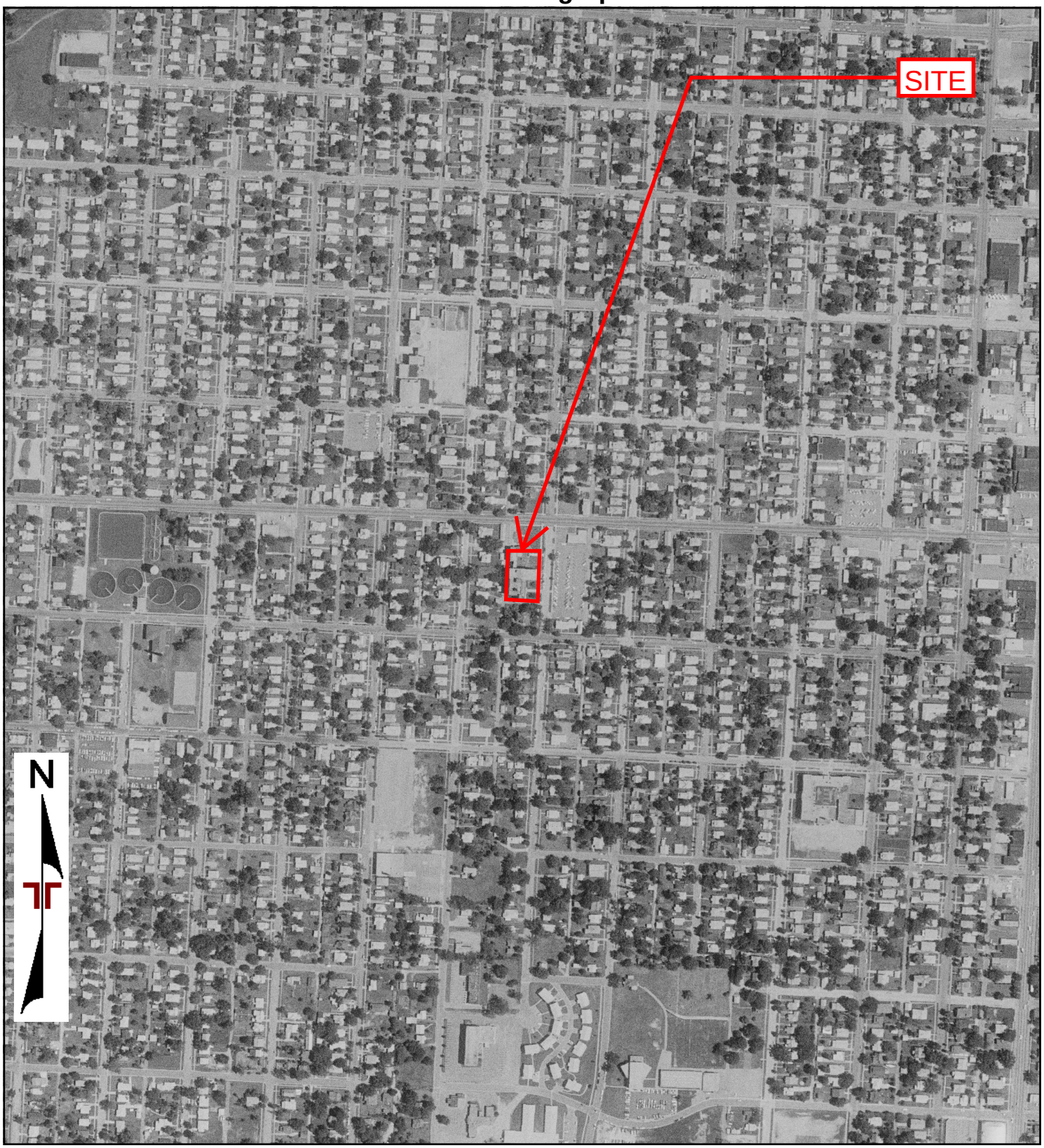
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1981 AERIAL PHOTOGRAPH Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1981			



0 Feet 500 1000 2000

Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1977 AERIAL PHOTOGRAPH Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1977			



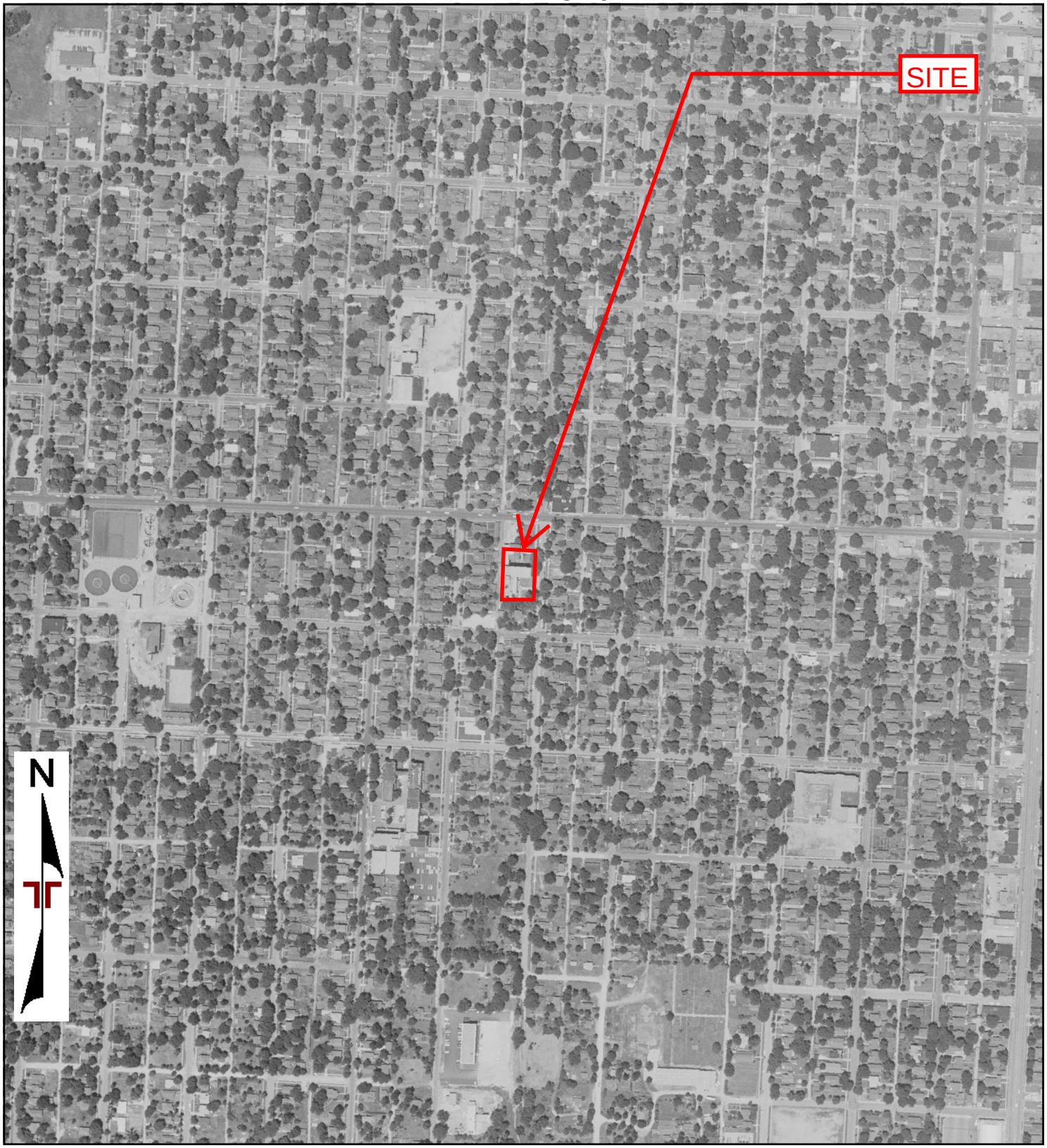
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1974 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital	C
Checked By:	File Name:		2008 S. Sergeant Ave.	
Approved By:	Date: 1974		Joplin, MO 64804	



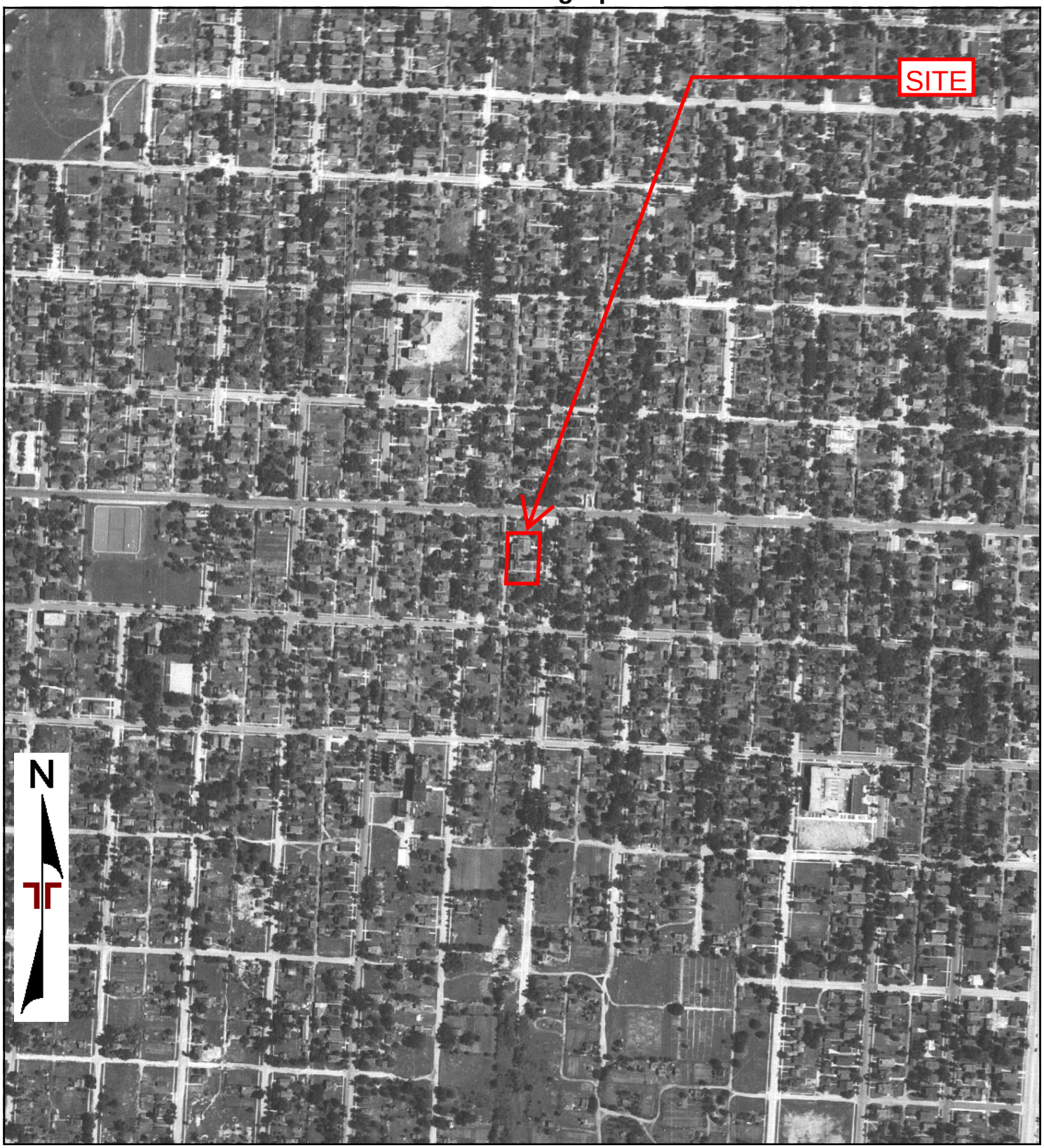
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Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1961 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	C
Checked By:	File Name:			
Approved By:	Date: 1961			



0 Feet 500 1000 2000

Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1959 AERIAL PHOTOGRAPH Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1959			



0 Feet 500 1000 2000

Project Manager:	Project No: Old Freeman Hos	Terracon 4765 W. Junction St Springfield, MO 65802	1938 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Old Freeman Hospital 2008 S. Sergeant Ave. Joplin, MO 64804	C
Checked By:	File Name:			
Approved By:	Date: 1938			

Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, MO 64804

Inquiry Number: 7830457.5
November 26, 2024

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

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Shelton, CT 06484
800.352.0050
www.edrnet.com

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

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

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☑	☑	Cole Information
1986	☑	☑	Polk's City Directory
1981	☑	☑	Polk's City Directory
1976	☑	☑	Polk's City Directory
1971	☑	☑	Polk's City Directory
1967	☑	☑	Polk's City Directory
1964	☑	☑	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

2008 S. Sergeant Ave.
Joplin, MO 64804

Year	*CD Image*	*Source*

S SERGEANT AVE

2020	pg A4	EDR Digital Archive
2017	pg A8	Cole Information
2014	pg A13	Cole Information
2010	pg A18	Cole Information
2005	pg A23	Cole Information
2000	pg A27	Cole Information
1995	pg A32	Cole Information
1992	pg A38	Cole Information
1986	pg A42	Polk's City Directory
1981	pg A46	Polk's City Directory
1976	pg A51	Polk's City Directory
1971	pg A55	Polk's City Directory
1967	pg A59	Polk's City Directory
1964	pg A64	Polk's City Directory

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
S JACKSON AVE		
2020	pg. A2	EDR Digital Archive
2017	pg. A7	Cole Information
2014	pg. A11	Cole Information
2010	pg. A16	Cole Information
2005	pg. A21	Cole Information
2000	pg. A26	Cole Information
1995	pg. A30	Cole Information
1992	pg. A36	Cole Information
1986	pg. A41	Polk's City Directory
1981	pg. A45	Polk's City Directory
1976	pg. A50	Polk's City Directory
1971	pg. A54	Polk's City Directory
1967	pg. A58	Polk's City Directory
1964	pg. A62	Polk's City Directory
1964	pg. A63	Polk's City Directory
W 20TH ST		
2020	pg. A5	EDR Digital Archive
2017	pg. A9	Cole Information
2014	pg. A14	Cole Information
2010	pg. A19	Cole Information
2005	pg. A24	Cole Information
2000	pg. A28	Cole Information
1995	pg. A34	Cole Information
1992	pg. A39	Cole Information
1986	pg. A43	Polk's City Directory
1981	pg. A47	Polk's City Directory
1981	pg. A48	Polk's City Directory
1976	pg. A52	Polk's City Directory

FINDINGS

Year	CD Image	Source
1971	pg. A56	Polk's City Directory
1967	pg. A60	Polk's City Directory
1964	pg. A65	Polk's City Directory

W 21ST ST

2020	pg. A6	EDR Digital Archive
2017	pg. A10	Cole Information
2014	pg. A15	Cole Information
2010	pg. A20	Cole Information
2005	pg. A25	Cole Information
2000	pg. A29	Cole Information
1995	pg. A35	Cole Information
1992	pg. A40	Cole Information
1986	pg. A44	Polk's City Directory
1981	pg. A49	Polk's City Directory
1976	pg. A53	Polk's City Directory
1971	pg. A57	Polk's City Directory
1967	pg. A61	Polk's City Directory
1964	pg. A66	Polk's City Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S JACKSON AVE 2020

1901	Lori Gilmore
	Wilbur Flood
1902	Robert Cullers
1906	Candice Hickson
	Christina Doody
	Corbin Caldwell
	Elizabeth Seeley
	Emmit Gueringer
	James Howell
	Jerry Genisio
	Shannon McCarty
	Stephen Harrington
1907	Phillip Rogers
	Shelly Rogers
1911	Danielle Sherman
	Lorie Garner
	William Zobel
1918	Joanna Ekhoff
	Shadron Ekhoff
1922	Stephen Skocy
1924	Interprises Brothers
2002	Mike Ritzman
	Paula Ritzman
2006	Chris Deweese
	Jamie Isabell
	Susan Macy
2011	Debra Tusinger
	June Evans
	Linda Hensley
	Richard Harris
2012	Laurie Delaney
2015	Nickolas Ritter
2017	Anna Leonard
2018	Casey Zippro
	William Zippro
2020	Donna Kolb
2021	Jessica Diel
	Tara Johnston
2023	Amy Malone
	Lief Malone
2030	Kevin Sangale
	Rahab Nganga
2101	DENTAL CARE CTR
	Richard Falkensten
2102	Geovanni Zavala
2105	Carolyn Williams
	Jim Williams
	John Williams
2106	Arfturo Mejia
	Art Mejia

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S JACKSON AVE 2020 (Cont'd)

2106	Michael Mejia
	Selene Mejia
2110	David Williams
2115	Judy Davis
2119	Andrew Jecmen
	Scott Shockley
2125	Dale Thurman
	UNDERWOOD DENTAL LAB
	Wd Mc Cready
2128	Necia O'Neil
	Robert O'Neil

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

S SERGEANT AVE 2020

1903	Isaac Carter
	Tiffany Carter
1905	Brooke Cooper
	Derek Cooper
1908	Michael Cahill
	Michelle Cahill
1911	Julie Ankney
1917	Brittany McCarty
	Codi Knoblauch
	Kyle McCarty
1919	Roy Daniels
	Shirley Daniels
2001	ABLE BODY CHIROPRACTIC
	Herb Waring
2007	POSTAL FEDERAL COMMUNITY CU
2102	Edna Wright
	Jeannie Fowler
	Steven Melton
2105	Alta Sharp
2106	Lauren Lant
2107	Anna Spencer
	Dillon Butler
	Lucas Pryor
	Mariah Climer
	Tara Pryor
2111	Elizabeth Friedly
2114	Ashley Bray
	Darrell Packer
	Mary Williams
2115	Chantel Thomas
2118	Glenna Plemmons
2130	Jacob Sonis
2131	Claudia Horn
	Gregory Horn
	Julia Horn

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W 20TH ST 2020

712 KEVIN'S CAFE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

W 21ST ST 2020

617	James Wilson
	Lonnie Webb
	Timmy Davis
707	Charley Rhodes
	Chris Cole
	Frances Rhodes
	Jonathan Loomis
714	Daniel Lash
901	Brenda Clark

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2017

1811	COPPENBARGER, CORY S
1815	NEWMAN, PAT
1821	CATLIN, THEO
1826	RINCKER, JASON D
1827	RICHARDS, CRYSTAL
1830	HARPER, FAITH C
1831	COLES, DARRIN R
1901	BRINK, AMANDA L
1902	CULLERS, ROBERT C
1906	COLE, ADAM
	HATHCOX, KATIE M
	HOWELL, JIM H
1907	MAURER, JOHN F
	ROGERS, PHILIP F
1908	BEERLY, DUSTIN
1911	ZOBEL, WILLIAM A
1919	CAIN, MICHAEL M
1928	COLE, SHARON K
2002	THE RITZ
2006	MACY, SUSAN L
2015	ASBILL, SHELBY D
2017	LEONARD, ANNA K
2018	ZIPPRO, WILLIAM H
2023	MALONE, LIEF E
2030	RUBIA, RAHAB W
2101	DENTAL CARE CENTER
2102	ZAVALA, GEOVANNI O
2105	WILLIAMS, JIM W
2106	MEJIA, ARTURO A
2110	THORNSBROUGH, WILLIAM
2115	DAVIS, JUDY K
2116	BRESHEARS, WILLIAM
2119	SHOCKLEY, SCOTT
2121	HURST, MARTHA L
2125	UNDERWOOD DENTAL LAB
2128	EARLY, JOHN R
2201	WEISS, FELICIA
2205	BRISSON, JOCELYN
	COLLIERS, EVA D
	STANKO, TY C
	THOMPSON, KELLI T
2209	SADDLER, LARRY
2211	MURPHY, WAYNE
2220	KIMBLEY, LORENE
	NICHOLLS, DOROTHY E
	ROWE, BOB E
2224	GOODLETT, BERNICE I
	LANDSAW, HAZEL J
	NEWBY, MARJORIE L
2229	WHITMAN, JESSICA

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 2017

1802	THOMPSON, DOLORES L
1804	MAYS, GLENA R
1812	RICE, JOSHUA J
1814	ROMAN, CARMEN R
1815	RUDISILL, JEFF L
1822	HOAGLAND, SARA J
1823	PEAVLER, CATHY
1824	GRAHAM, GINA
1832	DALLIES, SETH J
1903	JONES, TIFFANY A
1905	SANDERS, SHARON K
1908	CAHILL, MICHAEL A
1911	WILLIS, JOHNNIE L
1912	HEMPEN, THOMAS G
1917	KNOBLAUCH, CODI L
1919	DANIELS, ROY D
2001	ABLE BODY CHIROPRACTIC
2007	POSTAL FEDERAL COMMUNITY CREDIT UNIO
2102	BIRD, JEANNIE L
2105	HOLT, DAVID C
2106	ALVERSON, MARY L
2111	ALLEY, MELISSA R
2114	PACKER, DARRELL N
2115	THOMAS, CHANTEL R
2118	PLEMMONS, GLENNA
2122	COMER, KENNY
2124	STIGDON, ROBERT
2130	SONIS, JACOB
2131	HORN, GREG L
2202	PREVO, JENNIFER S
2206	JONES, JOSHUA
2211	GRAY, RHAINA E
2215	MCDERMOTT, TAYLAH J
2216	HONEYCUTT, DREX
2221	PLATNER, CODY
2226	WILLS, TONY L

Target Street	Cross Street	Source
-	✓	Cole Information

W 20TH ST 2017

406	WILLIAMS, AMANDA R
412	CADE, CASSIE
512	ARFIN, DAVID S
	DOBSON, NANCY
	KINGRY, AMY L
	WILLIAMS, KAYLA
518	MCLEROY, FRANCINE
712	MARY LEES CAFE

Target Street	Cross Street	Source
-	✓	Cole Information

W 21ST ST 2017

418	BLACK, MARY A
608	ANASTOSOPOLOS, SHANNON T
617	LAZARUS MINISTRIES
	VOTAN, GREG
707	COLE, CHRIS G
714	WILSON, NICHOLE E
901	SCHMIDT, MARISIA R
905	PYLES, DAKOADA R
912	JOHNSON, SANDRA K

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2014

1811	COPPENBARGER, CORY S
1815	ROACH, ROY R
1817	WATSKEY, TESSA M
1821	DINWIDDIE, JANELL E
1826	RINCKER, JASON D
1827	RICHARDS, CRYSTAL
1830	HARPER, FAITH
1831	DEMERY, TRASHENA J
1901	GILMORE, LORI
1902	HACKER, ANDREA N
1906	COLE, ADAM
	HARRINGTON, STEPHEN P
	HICKSON, CANDICE L
	HOWELL, JIM H
	MORTON, DAVID A
1907	MAURER, JOHN F
	ROGERS, PHILIP F
1908	BEERLY, DUSTIN
1911	SHERMAN, DANIELLE
1918	OCCUPANT UNKNOWN,
1919	KASHNER, DONALD
1922	OCCUPANT UNKNOWN,
1924	ALDRIDGE, KEITH
1928	COLE, SHARON K
2001	TUSINGER, JANICE E
2002	OCCUPANT UNKNOWN,
	RITZ THE
2006	MACY, SUSAN L
2010	DICHARRY, BETTY
2011	GRAHAM, WALTER
2012	DICHARRY, ERIC R
2015	OCCUPANT UNKNOWN,
2017	FLAGER, BRANDON
2021	JOHNSTON, TARA M
2022	OCCUPANT UNKNOWN,
2023	PYLE, AARON D
2030	RUBIA, RAHAB
2101	DENTAL CARE CENTER
	FALKENSTEN RICHARD DDS
2102	ZAVALA, GEOVANNI
2105	WILLIAMS, JIM W
2106	MEJIA, ARTURO A
2108	ROYER, BETHANY
2110	FISHER, TIFFANY J
2115	DAVID, JUDY K
2116	BRESHEARS, WILLIAM
2119	SHOCKLEY, SCOTT
2121	HURST, MARTHA L
2125	UNDERWOOD DENTAL LAB
2128	PELLETIER, BEVERLY G

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2014 (Cont'd)

2202	JOPLIN SENIOR CENTER
	NUTRITION CENTER
2205	COLLIERS, EVA D
	THOMPSON, KELLI T
2219	HOUCK, CARL E
2220	KIMBLEY, LORENE
	NICHOLLS, DOROTHY E
	ROWE, BOB E
2224	DILLON, YVONNE
	GOODLETT, BERNICE I
	MILLER, SARAH M
	NEWBY, MARJORIE L
2225	DEVOS, CARL J

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 2014

1802	THOMPSON, TRAVIS S
1804	MARIOTT, BILLIE J
1805	OCCUPANT UNKNOWN,
1812	RICE, JOSHUA J
1814	MORRIS, RICHARD D
1815	RUDISILL, JEFF L
1818	BURLESON, JAMES A
1819	OCCUPANT UNKNOWN,
1822	HOAGLAND, SARA J
1823	SMITH, SHERRI A
1824	MICHEL, JAMES
1825	OCCUPANT UNKNOWN,
1832	DALLIES, KYLE P
1903	TUSINGER, ZACHARY L
1905	OCCUPANT UNKNOWN,
1908	CAHILL, MICHAEL A
1911	WILLIS, JOHNNIE L
1912	NIMS, CECILIA T
1917	KNOBLAUCH, CODI L
1919	DANIELS, ROY D
2001	ABLE BODY CHIROPRACTIC
2007	POSTAL FEDERAL COMMUNITY CREDIT UNIO
2105	HOLT, DAVID C
2106	ALVERSON, MARY L
2107	TREASE, CLINTON
2108	WILCOX, CRYSTAL
2109	GRISSOM, ANDREA D
2111	ROSE, MELINDA G
2114	ADKINS, AMEE I
2115	THOMAS, CHANTEL R
2118	POINTS, KENDRA R
2124	PAULUS, MONIKA P
2130	OCCUPANT UNKNOWN,
2131	HORN, GREG L
2201	BALDWIN, EDWARD H
2202	OCCUPANT UNKNOWN,
2205	LUTZ, NORMAN G
2206	OCCUPANT UNKNOWN,
2211	LINDENFELSER, MARIAN
2215	OCCUPANT UNKNOWN,
2216	COTT, DREX H
2217	BOHANNAN, JEFFREY
2220	SUMMERS, DAVID W
2226	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

W 20TH ST 2014

406 OCCUPANT UNKNOWN,
412 CADE, CASSIE
512 BERRY, PENNY L
DUROSSETTE, GARY
MCGONIGLE, JOHN
SIGARS, NELLIE
518 OCCUPANT UNKNOWN,
520 ABBOTT, A
712 MARY LEES CAFE

Target Street	Cross Street	Source
-	✓	Cole Information

W 21ST ST 2014

415	OCCUPANT UNKNOWN,
418	OCCUPANT UNKNOWN,
608	ANASTOSOPOLOS, SHANNON
615	OCCUPANT UNKNOWN,
617	LANSAW, RICHARD D
	LAZARUS MINISTRIES
705	OCCUPANT UNKNOWN,
707	RHODES, FRANCES M
710	BUSH, DONNA R
714	WILSON, NICHOLE E
901	SCHMIDT, MARISIA R
905	PYLES, DAKOADA R
912	MCCOY, SK K

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2010

1811 COPPENBARGER, CORY S
1815 ROACH, ROY R
1821 SMITH, MATTHEW S
1826 OCCUPANT UNKNOWN,
1827 MELONAS, TONY J
1830 HARPER, FAITH
1901 SPELLMAN, DEREK A
1902 CULLERS, ROBERT C
1906 HOWELL, JIM H
1907 OCCUPANT UNKNOWN,
ROGERS, PHILIP F
1908 HAYWARD, CLINT W
1911 GARNER, LORIE L
1922 SKOCY, STEPHEN
1923 MELIN, STEPHEN F
1924 ALDRIDGE, KEITH
SPENCER, IRENE A
1928 COLE, SHARON K
2001 TUSINGER, JANICE E
2002 OCCUPANT UNKNOWN,
RITZ
2006 MACY, ED
2011 GRAHAM, WALTER R
2012 DICHARRY, JIM P
2015 DAILY, CLIFFORD E
2017 FLAGER, BRANDON
2018 ZIPPRO, WILLIAM H
2020 ELLIOTT, JOSEPH C
2021 OCCUPANT UNKNOWN,
2022 REA, AMMON L
2023 PYLE, AARON D
2030 NGANGA, RAHAB W
2101 DENTAL CARE CTR
2102 CERRATO, WALTER K
2105 J W WILLIAMS CO
WILLIAMS, JOHN W
2106 MEJIA, ARTURO A
2108 PATTERSON, DANIEL
2110 FISHER, TIFFANY J
2114 NEWDIGGER, ROBERT
2115 DAVIS, JUDY K
2116 SCOTT, SANDRA
2119 OCCUPANT UNKNOWN,
2121 HURST, JUNIOR C
2125 MCCREADY WILLIAM B DDS
W B MC CREADY INC
2128 BELLARD, JACKIE
2201 SEXTON, SCOTT R
2202 JOPLIN SENIOR CTR
SENIOR CITIZENS CTR

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2010 (Cont'd)

2205	COLLIERS, EVA D
	MONTOYA, DZ
	MORRIS, TRACY J
	PACE, KAYDEN
	POTTS, HELEN L
2209	OCCUPANT UNKNOWN,
2211	DINWIDDIE, BRIAN K
2220	KIMBLEY, LORENE
	NEWBY, MARJORIE L
	ROWE, BOB E
	SCHRADER, ROBERT G
2224	ANDERSON, JEWELL C
	DILLON, YVONNE
	TURNER, DELICE H
2229	MCAFEE, KIMBERLY A

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 2010

1802	THOMPSON, TRAVIS S
1804	MARIOTT, BILLIE J
1812	OCCUPANT UNKNOWN,
1814	LONG, CHINA G
1815	ROGERS, ELIZABETH J
1817	PETERSON, ROBERT
1818	OCCUPANT UNKNOWN,
1819	WASHINGTON, AURORA
1822	HOAGLAND, SARA J
1823	PAGE, JEREMY D
1824	FERGUSON, MORGAN S
1825	AMADOR, KIM R
1903	DAVIS, BRANDON D
1905	SHAFFER, DEBORAH
1908	CAHILL, MICHELLE T
1911	CADWALLADER, ISRAEL
1912	HEMPEN, THOMAS G
1917	OCCUPANT UNKNOWN,
1918	CURIOSITY CORNER CHILD CARE
1919	DANIELS, ROY D
2001	ABLE BODY CHIROPRACTIC
2007	POSTAL FEDERAL COMMUNITY CU
2008	GREATHOUSE, MARY K
2101	HOGELIN, WILLIAM E
2102	HYLES, VANESSA
2105	HOLT, MAGGIE A
2106	ALVERSON, MARY L
2108	IVEY, LISA M
	WILCOX, CRYSTAL
2109	GRISSOM, ANDREA D
2111	LOMBARD, LENA M
2114	OCCUPANT UNKNOWN,
2118	DUPREE, MELISA
2121	MOXLEY, THEODORE L
2122	KOHLER, JAMES A
2124	WRIGHT, LARRY S
2131	HORN, CLAUDIA M
2201	MILLS, AMANDA
2205	OCCUPANT UNKNOWN,
2206	OXFORD, JOHN D
2208	WRIGHT, BERT H
2211	HONEYCUTT, DREX M
2215	OCCUPANT UNKNOWN,
2216	THRIFT, E
2217	CRANDELL, ROSE M
2220	OCCUPANT UNKNOWN,
2226	DALYMPLE, TERRY

Target Street	Cross Street	Source
-	✓	Cole Information

W 20TH ST 2010

406 OCCUPANT UNKNOWN,
512 DOBSON, NANCY
DUROSSETTE, GARY
GORDON, CHARLES
WILES, DEBRA
518 NELSON, CODY W
520 ABBOTT, A
712 MARY LEES CAFE

Target Street	Cross Street	Source
-	✓	Cole Information

W 21ST ST 2010

418	MONTGOMERY, TIFFANY K
510	ALLEN, DEMETRIU
608	TYLER, MELISSA
615	OCCUPANT UNKNOWN,
617	LAZARUS MINISTRIES
	WILSON, JAMES R
705	BEHAN, CHARLA K
707	RHODES, FRANCES M
710	BUSH, DONNA R
714	OCCUPANT UNKNOWN,
901	WOEHLKE, LISA
905	OCCUPANT UNKNOWN,
912	MCCOY, SK K

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2005

1811	FRAKES, NORMA
1815	ROACH, ROY L
1817	MCMECHAN, DANIEL J
1821	NILTAC GENERAL CONTRACTORS
	OCCUPANT UNKNOWN,
1827	KILBURN, BRIAN J
1830	HARPER, SANDRA K
1831	JACOB, ZENITH
1901	YOCUM, WILLIAM W
1902	LASALLE, LANA S
1906	BUTTERY, M S
	GENISIO, JERRY
	HOWELL, JIM H
1907	ROGERS, PHILIP F
1908	MARTIN, CASEY A
1911	CONRAD, CARRIE
1918	SCOTT, GRANT W
1919	SOUTHWICK, JAMES
1922	EMORY, ERIN E
1923	MELIN, STEPHEN F
1924	DOKE, KIMBERLEY
2002	OCCUPANT UNKNOWN,
	RITZ THE
2006	MACY, ED
2011	COUNTY OF JASPER
	MCDONOUGH, SUE
2012	DICHARRY, JIM P
2015	DAILY, CLIFFORD E
2017	ZWICKERT, JOHN J
2018	CAYLOR, GARY W
2020	OCCUPANT UNKNOWN,
2022	REA, AMMON L
2023	PYLE, AARON D
2030	NGANGA, JOHN N
2101	DENTAL CARE CENTER
	FALKENSTEN RICHARD DD
2102	ZAVALA, GEOVANNI
2105	WILLIAMS, JOHN W
2106	MEJIA, ARTURO
2108	MAGRUDER, P
2110	OCCUPANT UNKNOWN,
2116	OCCUPANT UNKNOWN,
2118	WRIGHT, HAROLD O
2119	OCCUPANT UNKNOWN,
2121	HURST, JUNIOR C
2125	MCCREADY W B
2128	MURRAY, RANDY
2201	SEXTON, SCOTT R
2202	JOPLIN SENIOR CENTER
2205	BRISSON, JOCELYN

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2005 (Cont'd)

2205	HUDSON, JOHN J
	TRASK, DANNY
2209	OCCUPANT UNKNOWN,
2211	DINWIDDIE, BRIAN K
2219	OCCUPANT UNKNOWN,
2220	CARLYLE, LESLIE
	KIMBLEY, L
	NEWBY, MARJORIE L
	ROWE, BOB E
2224	JONES, LOIS A
	STEPHENS, ISMA E
	TURNER, DELICE H
2225	OCCUPANT UNKNOWN,
2229	WILLIAMS, CHARLES J

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 2005

1802	THOMPSON, TRAVIS S
1804	MARIOTT, BILLIE J
1812	BALDWIN, MIKE
1817	PETERSON, ROBERT
1819	HOFFMAN, NICKIE
1822	OCCUPANT UNKNOWN,
1824	WALLACE, PAULA S
1832	NELSON, JERRY
1903	TURNER, DAVID E
1905	TYLER, CAROLE J
1908	CAHILL, MIKE
1912	OCCUPANT UNKNOWN,
1917	OCCUPANT UNKNOWN,
1918	VOGT, SHARON
1919	OCCUPANT UNKNOWN,
2001	DR A L KARNS
	SCHULTZ CAROLE L DDS
	SCHULTZ, CAROLE L
2007	CENTRAL OZARKS CREDIT UNION
2008	MCWILLIAMS, RANDY
2101	HUDSON, VERNON C
2102	BECK, C
	MEGA MINOR MOVIES
2105	HOLT, MARGARET A
2107	GRISSOM, ANDREA D
2108	LINGENFELTER, MICHAEL E
	OCCUPANT UNKNOWN,
2111	LOMBARD, LENA M
2122	KOHLER, HENRY F
2124	CLIMER, A
2130	MARVIN, JACK R
2131	OCCUPANT UNKNOWN,
2201	MILLS, AMANDA
2202	STINNETT, JAMES L
2205	CLEAIR, MEGGAN B
2206	FREER, GAYLE J
2211	LINDENFELSER, MARIAN Y
2216	MATTHEWS, MARY J
2220	SUMMERS, DAVID W
2221	WESTFALL, CARL A
2226	DALYMPLE, TERRY

Target Street	Cross Street	Source
-	✓	Cole Information

W 20TH ST 2005

406 OCCUPANT UNKNOWN,
512 COLLINS, JEFF
OUTLAW, MICHAEL E
PAGE, WILLIE
518 BUSSE, SCOTT
712 MARY LEES CAFE

Target Street	Cross Street	Source
-	✓	Cole Information

W 21ST ST 2005

418	BARKER, MARVIN L
510	JENNESS, HOLLE R
617	JOHNSON, JEAN E
705	BEHAN, CHARLA K
707	RHODES, FRANCES M
714	CRAIG, CHARLOTTE A
901	OCCUPANT UNKNOWN,
905	WESTHOFF, GAYLA
912	MCCOY, SK K

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 2000

1811	COPPENBARGER, N J
1815	ROACH, ROY
1821	CATLIN, THEO
1826	JOHNSON, URSULA
1827	BREWER, C
1830	WAGGONER, R W
1831	CEARNAL, ALISHA N
1901	YOCUM, WILLIAM
1906	HOWELL, JIM
	SALLEE, ANGELA
1907	ROGERS, PHILIP F
	SHILLING, LANA
1908	WADE, C
1911	MARKHAM, ROBERT
1918	SCOTT, JANA L
1922	EINSEL, MILLER
1924	ROOT, V A
1928	SIMPSON, EUNICE
2002	LANE, JESSICA
	RITZ THE
2006	MACY, HARRY E
2011	FELKINS, RICHARD
2012	DICHARRY, JIM
2015	DAILY, C
2017	ZWICKERT, JANET N
2020	ELLIOTT, CREIGHT C
2021	KUNDYSEK, JODI
2022	REA, AMMON
2023	SMITH, NAN
2105	WILLIAMS, WINNIE
2110	WENTHE, EDWARD
2118	WRIGHT, HAROLD O
2121	HURST, JUNIOR C
2202	JOPLIN SENIOR CENTER
	NUTRITION CENTER
2205	YOUNG, CRAIG V
2219	BITZER, BETTY J
2220	CLARK, MARTHA C
	HENDERSON, DORINDA A
	MAYS, LENA M
	PUTTER, DORINDA
	RICHARDSON, PAULA L
2224	ANDERSON, JEWELL C
	JONES, LOIS A
	STEPHENS, ISMA
2225	PARKER, ANDREW

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 2000

1802	THOMPSON, TRAVIS
1804	MARIOTT, TOMMY E
1809	CARRENDER, BARBARA A
1812	BALDWIN, LINDA
1814	YEATS, DELPHA L
1815	NIGHSWONGER, PAUL D
1818	GUCCIONE, DOUGLAS C
1823	LAWSON, T
1824	WALLACE, PAULA S
1825	FRAZIER, R A
1903	WEBSTER, MATTHEW
1905	TYLER, CAROLE J
1908	CAHILL, MICHAEL A
1912	VOGT, SHARON D
1917	ZIMMERMAN, JERRY
1918	BRAY, OSCAR R
1919	NOEL, DOUGLAS W
1923	ARNOLD, MATTHEW
2001	KARNS, A L
	SCHULTZ CAROLE L DDS
2101	HUDSON, VERNON C
2102	ANGEL, JODY
2105	HOLT, DANISSA
2106	SHOWALTER, DIANNE
2107	RIGG, HELEN M
2108	GRUBE, FREEDOM D
2111	LOMBARD, VERIL L
2114	POWELL, MAX
2118	GREGORY, WESLEY J
2121	HEDGCORTH, J
	MOXLEY, T L
2131	HORN, CLAUDIA M
2202	MONSON, L
2211	LINDENFELSER, MARIAN
2215	FUCHS, TIMOTHY I
2216	JONES, ANGIE

Target Street	Cross Street	Source
-	✓	Cole Information

W 20TH ST 2000

512 ETHRIDGE, WILLIAM R
LEE, C M
OUTLAW, MICHAEL E

Target Street	Cross Street	Source
-	✓	Cole Information

W 21ST ST 2000

615	WATKINS, LEO
617	THAYER, WILLIAM
705	GAUT, LAUREL A
901	GULICK, ARTHUR E
912	DETTY, GWEN

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 1995

1811	COPPENBARGER, NORMA
1815	ROACH, ROY
1817	PAGE, BILL
1821	OCCUPANT UNKNOWNN
1826	ASHMORE, JOHN
1830	RADER, SUZANNE
1831	OCCUPANT UNKNOWNN
1901	YOCUM, WILLIAM
1902	BAKER, OTIS W
1906	BALLARD, KEVIN A
	HOWELL, JIM
	MANLEY, SANDRA
	MILLER, BRYAN
	RIVERA, CARLOS
1907	PRICE, C
	ROGERS, PHILIP F
1908	GARNER, DELORIS
1911	JOHNSON, KEVIN
1918	SCOTT, JANA L
	SPEAKS, JANA
1919	OCCUPANT UNKNOWNN
1921	MOORE, KARRIE
1922	SPAULDING, R F
1923	MELIN, CHARLES F
1924	GRAY, JASON
1925	OCCUPANT UNKNOWNN
1928	MAILES, DENNIS
2002	OCCUPANT UNKNOWNN
	RITZ
2006	MACY, HARRY E
2011	WOOD, DEBRA
2012	LOOME, JAMES
2015	DAILY, C
2017	LAGASSE, C M
2018	PEAVLER, JEFFERY
2020	ELLIOTT, C C
2022	REA, AMMON
2023	OCCUPANT UNKNOWNN
2030	BOURASSA, EDWARD J
2101	DENTAL CARE CTR
	FALKENSTEN RICHARD DD
	OCCUPANT UNKNOWNN
2102	SWEET, RENATE
2105	WILLIAMS, WINNIE
2106	WATSON, TITIA
2108	OCCUPANT UNKNOWNN
2110	SHOCKLEY, STEVE
2114	RIGG, HELEN M
2115	CWA LOCAL 6313
	OCONNOR, DONNA J

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 1995 (Cont'd)

2116	BAY, BARBARA
2118	WRIGHT, HAROLD O
2119	MOORE, VICKI A
2121	HURST, JUNIOR C
2125	W B MC CREADY DDS
2128	BROCK, OPAL N
	HOBBS, OPAL
	SHAVER, SUSAN
2201	PHILLIPS, PAUL
	SENIOR CITIZENS TRANSPORTATION
2205	BEAULIEU, AMBER
	HOLLINGSWORTH, B
	NICHOLSON, RON
	WILSON, SHANNON M
2209	BERRY, C
2211	SILL, RIC M
2219	RITZER, B J
2220	FISHER, G
	MAYS, LENA M
	PERRIN, LMOGENE
2224	CONNOR, E I
	JONES, LOIS A
2225	PARKER, ANDREW
2229	FLEMING, DIANA

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 1995

1802	ADAMSON, E
1804	MARIOTT, TOMMY E
1805	MITZNER, PAULA
1812	BALDWIN, LINDA
1814	BRUNTON, MELVA M
1815	HUDDLESTON, CHERYL L
1817	OCCUPANT UNKNOWNN
1818	FISHER, KAREN
	LAURIDSEN, CHRIS
1819	HAITH, LARRY A
1822	THOUVENELL, M
1823	SPENCER, CAMMY
1825	FRAZIER, R A
1832	DHAR, S
1903	OCCUPANT UNKNOWNN
1905	OCCUPANT UNKNOWNN
1908	CASTLEBERRY, BILLY
1911	SMITH, STEPHEN E
1912	KEMPER, TODD
1916	OCCUPANT UNKNOWNN
1917	PETERSON, DARCI
1918	BRAY, OSCAR R
1919	BIGLEY, KELSY
1923	ARNOLD, MARY C
	RANOLA OIL CO
2001	CAROLE L SCHULTZ DDS
	SCHULTZ, CAROLE L
2008	CHILD & PARENT CTR
	MCWILLIAMS, RANDY
	MIDTOWN U STORE
2101	HUDSON, VERNON C
2102	ANGEL, ANDREA
2105	SLICHENMYER, KYLE G
2106	THOMAS, DARREL H
2107	TURMEL, ROBERT
2108	PENNINGTON, S H
2111	LOMBARD, VERIL L
2118	SCHWARTZ, BRIAN
2121	CARVER, J
2122	PRETTYMAN, JEFFREY
2124	KELSEY, JOHN W
2130	OCCUPANT UNKNOWNN
2131	HORN, GREG
2201	KEIFER, E
2202	WILKINS, C Y
2205	OCCUPANT UNKNOWNN
2206	JONES, ANGIE
2211	LINDENFELSER, MARIAN
2215	YATES, RONALD L
2216	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 1995 (Cont'd)

2217	OCCUPANT UNKNOWNN
2220	OCCUPANT UNKNOWNN
2221	OCCUPANT UNKNOWNN
2226	TATE, MARGIE

Target Street	Cross Street	Source
-	✓	Cole Information

W 20TH ST 1995

406	SMITH, MELODY
412	STODDARD, LARRY
512	DEGRAFFENREID, ROYAL L
518	CUMING, DENIS
606	PRESLEY, LESLI
911	GRATTAN, BILLY
915	OCCUPANT UNKNOWNN
917	OCCUPANT UNKNOWNN
919	OCCUPANT UNKNOWNN
1003	BEASLEY, SYLVIA

Target Street	Cross Street	Source
-	✓	Cole Information

W 21ST ST 1995

510	MOSKALSKI, MIKE
705	NELSON, K
707	RHODES, CHARLEY E
710	OCCUPANT UNKNOWNN
901	WILLIAMS, DORIS
905	GULICK, ARTHUR E
912	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 1992

1811	COPPENBARGER, NORMA
1815	ROACH, ROY
1827	BENNETT, REBECCA
	PORTER, MARGIE C
	WEBB, MARGIE M
1830	RADER, SUZANNE
1901	YOCUM, WILLIAM
1902	BAKER, OTIS W
1906	LAWSON, J H
1907	ROGERS, PHILIP F
1908	GARNER, DELORIS
1918	ALLEY, JESS II
	SCHELLACK, DOUGLAS
1919	LESTER, BRUCE
1922	SPAULDING, R F
1923	MELIN, CHARLES F
1924	HANEWINKEL, M
	RIGGS, LAURA
1925	EATON, IRA J
2002	RITZ THE
	RITZMAN, FORREST M
2006	MACY, HARRY E
2015	DAILY, C
2017	LAGASSE, C M
2020	ELLIOTT, C C
2022	REA, AMMON
2030	BOURASSA, EDWARD J
2101	DENTAL CARE CENTER
	FALKENSTEN RICHARD DD
	FALKENSTEN, RICHARD
2102	SWEET, RENATE
2105	WILLIAMS, WINNIE
2106	WATSON, T
2108	REA, INES
2115	OCONNOR, DONNA J
2118	WRIGHT, HAROLD O
2119	PATTON, PAUL E
2121	HURST, JUNIOR C
2125	MCCREADY W B DDS
	MCCREADY, WILLIAM B
2128	JONES, V
2201	PHILLIPS, PAUL
2202	SENIOR CITZ TRANSPTN
2205	BECK, GEORGE
	COOK, M
2211	SILL, RICK M
2220	CHARRON, JEWEL J
	FISHER, G
	MAYS, LENA M
	PERRIN, IMOGENE

Target Street	Cross Street	Source
-	✓	Cole Information

S JACKSON AVE 1992 (Cont'd)

2224 CONNOR, E I
JONES, L A
STEPHENS, ISMA
THOMPSON, FERNE B

Target Street	Cross Street	Source
✓	-	Cole Information

S SERGEANT AVE 1992

1802	LEVANVO, WILLIAM
1804	MARIOTT, TOMMY E
1805	EICHHORN, P A
1814	BRUNTON, MELVA M
1815	HUDDLESTON, CHERYL L
1819	HAITH, LARRY A
1823	SPENCER, CAMMY
1824	WALLACE, PAULA S
1825	CARLISLE, JAMIE
1832	SLYMAN, MICHAEL
1903	MURPHY, LAVAINE
1905	RICHARDSON, RANDY
1912	KEMPER, TODD
1916	JOHNSON, CHARLES L
1917	JOHNSON, B
1918	BRAY, OSCAR R
1919	BIGLEY, KELSY
1923	HOLMES JOHNNY R OFC
	POLLOCK, GEOFF
	RANOLA OIL CO
2001	SCHULTZ CAROLE DDS
2008	PLAY RIGHT TOYS
2101	HUDSON, VERNON C
2102	SHORT, M R
2105	SLICHENMYER, KYLE G
2111	LOMBARD, VERIL L
2118	BUTLER, FRANK
2122	STINNETT, FREDA
2124	KELSEY, JOHN W
2131	HORN, GREG
2217	BIRK, C J
2221	BIRK, BETTY J
2226	DAVIS, DENNIS

Target Street	Cross Street	Source
-	✓	Cole Information

W 20TH ST 1992

406 JONES, HENRY
512 DEGRAFFENREID, ROYAL L
518 CUMING, DENIS
606 BROWN, JACK J
609 CUTTAWAY THE
611 MELIN'S GROC
911 TIPTON, BRIAN
915 DUGGAR, LARRY
917 LAPLANTE, ALBERTA

Target Street	Cross Street	Source
-	✓	Cole Information

W 21ST ST 1992

617	BRUNSON, DEBRA
	MACPHEE, DIANA
705	NELSON, K
707	RITCHIE, JAMES D
710	JENKINS, TERRI
714	ENGLAND DON V DDS
	ENGLAND, DON V
906	CHIEF SECURITY INC
912	LOYD, SHAWN

Target Street	Cross Street	Source
-	✓	Polk's City Directory

S JACKSON AVE 1986

JACKSON AV—Contd
1★Eckert Linda Mrs
2★Carey Debra
3 Vacant
1519 Bryant Dean A
1523 Allen Kenneth G ◎ 781-8316
1524 Henson Carol E Mrs ◎ 623-8561
W 16TH INTERSECTS
1601 Miksell Robt K
1602 Butler Edna E Mrs ◎ 782-0909
1605★Clark Lee 623-1606
1606 Jerry's Cleaning Service janitorial serv 781-9728
Jewsbury Jerry R ◎ 781-9728
1611 No Return
1612 Johnson John C ◎ 624-4433
1615 Maxine Apartments 782-4168
1 Vacant
2 Vacant
3 Vacant
4★Pitts Sue A 781-4746
5 No Return
1616 Sawyer Georgia M Mrs ◎ 624-4206
1622 Friend Margie R Mrs ◎ 624-2493
1624 Vance Doyle E ◎ 781-9692
1627 Dudley Legrand C ◎ 623-7624
W 17TH INTERSECTS
1701 Vacant
1702 Spencer Wm ◎ 782-9602
1705 Vacant
1706 Warner Geraldine Mrs ◎ 623-0950
1710 Vacant
1713 New Creation Life Church 781-4487
1714 Vacant
1715 Edminster Ida Mrs ◎ 623-0816
1719 Piper Claude E ◎ 624-7614
1720 Zeka Frank Keith ◎ 781-4055
1723 Hughlett David A ◎ 781-8083
1727★Tamminen Larry W 624-4427
1730 Larson Carl G ◎ 623-6413
1731 Mullican Jerry ◎ 781-0591
W 18TH INTERSECTS
1801 Linam Alice F ◎ 781-6782
1805 Rader Robt L ◎ 624-2125
1811 Wilcoxson Wm R ◎ 623-5498
1815 Roach B Roy ◎ 623-7940
1817★Garrison J Stephen 782-5275
1821 Vacant
1827 Pekarek Lawrence E ◎ 624-8277
1831★Nunley Howard J ◎ 781-1829
W 19TH INTERSECTS
1901 Yocum Wm W ◎ 623-6390
1902 Baker O Warren ◎ 624-7926
1906 Dorothy Fay Apartments 451-7495
1 Sprouse Scott
2 Griffen Carrie Mrs 624-2067
3★Wooldridge Christe A 623-5714
4 Young Julia 781-7693
5★Carson Bill
6 Worley
1907 Rogers Philip F ◎ 782-5412
1907½★Crane Beverly J
1908 Garner Delores Mrs ◎ 624-7446
1911★Johnson Kevin
1918 Holland Kenneth ◎ 781-9540
1919 Lester Bruce ◎ 782-0949
1922 Vacant
1923 Melin Charles F ◎ 623-5417
1924 Apartments
1 Wimberly Tina
2★Smith Gary W
3★Wheeler Mike
5★Martey Jess
6★Carson Wm P ◎ 782-3608
1925 Allana's Beauty Shop
Eaton Ira J ◎
1928 Humble Ronald B ◎ 781-6144

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W 20TH ST INTERSECTS
2002 Ritz Hair Salon The 781-0088
2002½ Ritzman Michl ◎ 782-0123
2006 Macy Harry E ◎
2011 Tusinger Janice E Mrs ◎ 781-2703
2012 Rusch Dale K ◎ 782-4682
2015 Daily Clifford E ◎ 782-2475
2017★La Gasse John J
2018 Cones Margie E Mrs 782-1264
2020 Elliot Creighton C ◎ 781-5930
2021 Vacant
2022 Rea Ammon L ◎ 624-0923
2023 Harlin Kay Mrs 781-5346
2030 Bourassa Edw J ◎ 624-7377
W 21ST ST INTERSECTS
2101 England Don V dentist 781-1550
2102 Vacant
2105 Williams Bob ◎ 623-1902
2106★Watson Robt A 624-6296
2108 Vacant
2110 Prince Mike J ◎
2114 Rigg Bruce A ◎ 623-7512
2115 O'Connor Donna J ◎ 781-4012
2116★Isley Gary
2118 Wright Harold ◎ 623-0999
2119 Patton Paul Rev ◎ 781-1897
2121 Tisdale Frank E 623-7771
2125 Mc Cready W B periodontist 781-4860
2128 Vacant
W 22D ST INTERSECTS
2201★Mc Mahon Lori 624-6111
2202 Senior Citizens Nutrition Center 781-9353
2205 Williams Rebecca
2205½ Vacant
2209 Eckhardt Margt M 624-9976
2209½ Vacant
2211 Sill Rick M ◎ 782-4845
2219 Vacant
2220 Apartments
A Thompson Marvin W 623-2963
B Hodson Cleo G 782-3346
C Mays Lena 624-2597
D★Perrin Imogene 623-1351
2224 Apartments
A Clark Hugh
B Stephens Isma E 624-6463
C Connor Edna 781-9355
Thompson Ferne B 782-3154
2225 Kelly Vera Mrs ◎ 624-7018
2229 Washburn Janice ◎ 782-1495
2301 Martin Freda E Mrs ◎ 623-7482
2311 Wasson H Waldo phys 781-2311
2316 Oliphant Carol J 624-7107
2318 Cohee A David ◎ 623-3336
2320 Randall Andree J Mrs ◎ 624-0411
2324 Warthen Melvin A ◎ 781-7104
2329 Vinyard Jack L phys 781-1132
2330 Stokes Paul P ◎ 781-5609
2401 Shah Ramesh R opthalmologist 781-3630
Judge Mark A ophthalmologist 781-3630
Davis Optical dispensary 624-3122
Lewis James M dentist 781-6322

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S SERGEANT AVE 1986

1832 Slyman Michl ◎ 781-2951
W 19TH ST INTERSECTS
1903 Davis Terry L ◎ 781-5365
1905 Brumback Ervin E ◎ 623-5311
1908 Skinner Joseph F ◎ 624-2869
1908½ Skinner J F (Stge)
1911 O Connor Terry ◎ 623-3024
1912 Vacant
1916 Johnson Charles L ◎ 623-4083
1917 Williams Dee ◎ 782-8885
1918 Bray Oscar R ◎ 623-4986
1919 Lewis Wm F ◎ 781-2138
1923 Ranola Oil Co 781-5066
Apartments
1★Pettigrew Randy 623-0821
2★Clark Dorothy M Mrs

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W 20TH ST INTERSECTS
2001 Skahan James Michl dentist 623-8444
Schulte Jos C Jr dentist 624-6269
2008 Ozark Gateway Council Of Governments 781-3220
Area Agency On Aging 781-7562
Head Start sch 781-4497
W 21ST ST INTERSECTS
2101 Hudson Vernon C ◎ 623-8158
2102★Young Eunice 781-2272
2105 Slichenmyer Kyle ◎
2106 Tierney Thomas B ◎ 624-7595
2107 Hazenhoff Mary Ann
2108★Martin Betty 781-6696
2108½ Vacant
2111 Lombard Veril L ◎ 781-2820
2114 Powell Wilma C Mrs ◎ 623-2678
2118★Haynes Mike ◎ 782-6027
2121 Hedgcorth Jacquelyn Mrs ◎ 781-1310
2122 Stinnett Freda M Mrs ◎ 623-7521
2124 Kelsey John W ◎
2130 Warren Dan
2131 Bellairs Phil ◎ 624-0299
W 22D ST INTERSECTS
2201 Standridge Evelyn E 624-6387
2202 Baker Claudia M Mrs 781-6996
2205 Orton Dennis W ◎
2206 Thompson Tonya
2208 Vacant
2211 Giger Leo L ◎ 623-6885
2215 Vacant
2216 Vacant
2217 Vacant

4 Jackson Edith M Mrs 781-3509
518★Mallos John 782-4300
MOFFET AV INTERSECTS
606 Brown Jack J 624-7202
609 Cuttaway The
611 Melin's Grocery 623-3812
611½ Apartments
1 Vacant
2 Arnold Mary C 781-0045

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SERGEANT AV INTERSECTS
JACKSON AV INTERSECTS
CONNOR AV INTERSECTS
911 Rabe Steph E 782-1175
915★Thomure Michl J 623-4821
917 La Plante Alberta E Mrs © 623-6598
919★Gibson Terry L 623-6477
BIRD AV INTERSECTS
1003 Apartments
1 No Return
2 Brett Barbara 781-2091
3 Beasley Sylvia Mrs 781-2818

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MURPHY AV INTERSECTS
PICHER AV INTERSECTS
1217 Long Evelyn A Mrs © 781-8561
EMPIRE AV INTERSECTS
1304 Crazy Frank's Cycles motorcycle parts & serv 781-6577
1312 Vacant
1312½ Vacant
1316 Vacant

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 21ST ST 1986

W 21ST ST—Contd
205★Settle Lynne
209★Bernhardt Denise 782-6579
212★Verhoff Michelle 782-2901
WALL AV INTERSECTS
PEARL AV INTERSECTS
411 Aga James
415 King Joseph L 624-7129
418★Snedeker Marcus H 781-2630
BYERS AV INTERSECTS
510 Carr Linda
514 Southland Supply jan sups ret 781-9502
MOFFET AV INTERSECTS
608 No Return
615 Designs By Diana florist 781-0545
615½ Vacant
617 Allison Diana M ◎ 781-0545

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SERGEANT AV INTERSECTS
710 No Return
714 No Return
JACKSON AV INTERSECTS
CONNOR AV INTERSECTS
901 Ford Pauline G Mrs ◎ 781-3059
905 Newton Baxter 781-2586
906 Dewater Russell A ◎ 623-7051
910 Vacant
912 Vacant
BIRD AV INTERSECTS
1012★Deckard Mary M
MURPHY AV INTERSECTS
sw cor Missouri American Water Co-Joplin Dist (Pump Sta) 624-3361
PICHER AV INTERSECTS
EMPIRE AV INTERSECTS
ANNIE BAXTER AV INTERSECTS
PORTER AV INTERSECTS
HARLEM AV INTERSECTS
MAIDEN LA INTERSECTS

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1727 Smith Belinda J Mrs

Target Street	Cross Street	Source
-	✓	Polk's City Directory

S JACKSON AVE 1981

1831 No Return
W 19TH INTERSECTS
1901 Yocum Wm W ◎ 623-6390
1902 Baker O Warren ◎ 624-7926
1906 Dorothy Fay Apartments 781-5877
1★Cunningham Ann
2 Griffen Carrie Mrs 624-2067
4★Genisio Jerry 781-5877
5 Vacant
6★Harper Elaine
1907 Crain B J
1908 Garner Delores Mrs ◎ 624-7446
1911 Coats Wm E 623-8690
1918 Holland Donna 781-9540
1919 Lester Bruce ◎ 782-0949
1922 Beagle Margt E Mrs ◎ 781-5188
1923 Melin Charles F ◎ 623-5417
1★Sooter Dee
2★Sueck Donald
3 Vacant
1925★Eaton Ira J ◎ 623-2957
1928 Vacant

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W 20TH ST INTERSECTS
2002 Inch Pincher The reducing center body wraps
2002½★Nolan Debbie A
2006★Macy Harry E ◎ 624-2776
2011 Tusinger Janice E Mrs ◎ 781-2703
2012★Rusch Dale K ◎ 782-4682
2015 Vacant
2017★Overstreet Greg 782-1503
2018★Fussell James R
2020 Albert Gwendolyn E Mrs ◎ 623-2884
2021★La Gasse John J
2022 Rea Ammon L ◎ 624-0923
2023 Harlin Kay Mrs 781-5346
2030 Bourassa Edw J ◎ 624-7377
W 21ST ST INTERSECTS
2101 England Don V dentist 781-1550
2102 Dennen John 623-8030
2105★Williams Bob ◎ 623-1902
2106★Watson John G Jr 782-4348
2110 Prince Mike J ◎ 624-1651
2114★Riggs Burce A ◎ 781-9298
2115 O'Connor Donna J ◎ 781-4012
2116 Copple V Ethel Mrs 781-2337
2118 Wright Bert H ◎ 623-0999

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S SERGEANT AVE 1981

SERGEANT AV—Contd
1917 Heeter John R ◎ 781-0047
1918 Bray Oscar R ◎ 623-4986
1919 Lewis Wm F ◎ 781-2138
1923 Ranola Oil Co 781-5066
✦Wade Penny C

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W 20TH ST INTERSECTS
2001 Talbott James M Jr dentist 623-8444
Fuhr Wendell dentist 623-4620
2008 Ozark Gateway Council Of Govts 781-3220
Community Food & Nutrition 781-0352
County Sheltered Facilities 624-4515
Manpower 781-0352
Area Agency On Aging 781-7562
Manpower (Work Experience In-Sch)
Manpower (Work Experience-Adult)
Head Start sch 781-4497
Chem Staat Laboratory 781-2666
Economic Security Corp welfare organization 781-0352
City Family Planning 781-0352
2030★Schultz Robt R ◎ 782-3242
W 21ST ST INTERSECTS
2101 Hudson Vernon C ◎ 623-8158
2102 Zumwalt Bill E ◎ 624-3582
2105 Vacant
2106 Tierney Thomas B ◎ 624-7595
2107 Sweet Jim H 782-4979
2108 Harper Ursalee
2108½ Vacant
2111 Vacant
2114 Powell Max ◎ 623-2678
2118★Siracusa John
2121 Hedgcorth Jacquelyn Mrs ◎ 781-1310
2122 Middleton M C 624-8081
2124 Kelso John W ◎ 781-2479
2130 Warren Dan ◎
2131 P & R Sign Co sign pntg 624-0299
Bellairs Phil ◎ 624-0299
W 22D ST INTERSECTS

Target Street	Cross Street	Source
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W 20TH ST 1981

BYERS AV INTERSECTS

507 Lea's Wash-O-Matic 623-9696

512 Apartments

1 Marshall Loren A

2 Brown

3★Carter Jeri

4★Jackson Edith M 781-3509

518★Kinley Mark

MOFFET AV INTERSECTS

606 Hutson Nettie N 781-7296

609 Magic Mirror Beauty Salon 781-8340

611 Melin's Grocery 623-3812

611½★Palumbo Loraine

W 20TH ST—Contd

2★Arnold Mary 781-0045

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SERGEANT AV INTERSECTS

JACKSON AV INTERSECTS

CONNOR AV INTERSECTS

911 Rabe Steph E ◎ 782-1175

915 Lashley Ruby C Mrs ◎

917 La Plante Alberta E Mrs ◎ 623-6598

919 Norton Blanche 624-3186

BIRD AV INTERSECTS

1 Aldrige Nancy

2 Beasley Sylvia Mrs 781-2818

3 Vacant

45

MURPHY AV INTERSECTS

PICHER AV INTERSECTS

1217 Long Evelyn A Mrs ◎ 781-8561

EMPIRE AV INTERSECTS

1304 Crazy Franks motorcycle parts & serv 781-6577

1312 Piano Exchange repr tune rebuild-sls 782-2624

1314 No Return

1316 Cable Com Construction

ANNIE BAXTER AV INTERSECTS

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 21ST ST 1981

514 Vacant
MOFFET AV INTERSECTS
608★Farmer Richd L 782-4456
615 Bud & Don's Florist 781-0545
615½★Provance Joseph
617 Isgrigg Virgil E 781-0545

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SERGEANT AV INTERSECTS
710 Ryan Mike 624-9358
714 Vacant
JACKSON AV INTERSECTS
CONNOR AV INTERSECTS
901 Ford Pauline G Mrs ◎ 781-3059
905 Newton Baxter 781-2586
906 Dewater Russell A ◎ 623-7051
910★De Water Rick 781-7320
BIRD AV INTERSECTS
1012 Meier Martha J 624-9740
MURPHY AV INTERSECTS
sw cor City Water Works Co (Pump Sta And Filter Plant) 624-3361
PICHER AV INTERSECTS
EMPIRE AV INTERSECTS
ANNIE BAXTER AV INTERSECTS
PORTER AV INTERSECTS
HARLEM AV INTERSECTS
MAIDEN LA INTERSECTS

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1727 Smith Belinda J Mrs
1728 Blair Imogene Mrs 781-6127
1731 Woody Billy E ◎
1732 Brown Dennie R 782-1509
1735 Mounce Forrest R ◎ 623-5399
1739 Angel Excavating 782-1841
Angel Danny F 782-1841

Target Street	Cross Street	Source
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S JACKSON AVE 1976

JACKSON AV—Contd
1713 Pentecostal Works Of Faith
1714★Coop Thos E 781-4164
1715 Edminster Ida Mrs ◎ 623-0816
1719 No Return
1720 Genisio Charles P ◎ 623-6863
1723 Hughlett David A ◎ 781-8083
1727★Puckett Adrian W
1730 Larson Carl G ◎ 623-6413
1731 Nelson Marion Mrs ◎ 781-0693
1731½ Vacant
W 18TH INTERSECTS
1801 Jones Mildred F Mrs ◎ 624-4253
1805 Rader Robt L ◎ 624-2125
1811 Wilcoxson Wm R ◎ 623-5498
1815 Roach Benny L ◎ 623-7940
1817 Hurn Jhan R ◎ 781-6366
1821 Jones Paul D ◎ 624-7320
1827 Pekarek Lawrence E ◎ 624-8277
1831 No Return
W 19TH INTERSECTS
1901 Yocum Wm W ◎ 623-6390
1902★Baker O Warren ◎ 624-7926
1906 Dorothy Fay Apartments 624-2069
1 Reynolds Helen Mrs 624-5142
2 Griffen Carrie Mrs 624-2067
3 Means Lynna
4 Vacant
5 Palmer Virginia
6 Shaffer Henry J
1907 Niles Walter I ◎ 624-2069
1908 Garner Delores Mrs ◎ 624-7446
1911★Kunce Donald W 623-4134
1918 Miller Effie L Mrs ◎ 623-8208
1919 Readshaw Robt A Jr ◎ 623-4587
1922 Beagle Margt E ◎ 781-6010
1923 Melin Charles F ◎ 623-5417
1924★Bradford Catherine Mrs
★Glaze Valerie Mrs
★Stephens Olive M Mrs
1925 Vaughn Curtis M ◎
1928 Harrell Wayne A 781-3814

W 20TH ST INTERSECTS
2002 Ralston J Steph chiropractor 781-7860
2002½★Ralston J Steph ◎ 781-8011
2006 Butts Phillip G 781-6806
2011 Vacant
2012 Brothers Paul E ◎ 781-3084
2015 Vacant
2017★Lindley Wilbur L
2018 Miller Mona R Mrs ◎ 623-3794
2020 Albert Gwendolyn E Mrs ◎ 623-2884
2021 Vacant
2022 Rea Ammon ◎ 624-0923
2023 Vacant
2030 Bourassa Edw J ◎ 624-7377
W 21ST ST INTERSECTS
2101 England Don V dentist 781-1550
2102 Porter Joe A ◎ 623-8030
2105 Mahood Dorothy H Mrs ◎ 781-5852
2106 Bateson Karen ◎
2108 Dennis John W 623-3371
2110★Rhodes Ernest 781-5415
2114★Riggs John ◎
2115 Calvin Mary E Mrs ◎ 623-1524
2116★Davis Laura J Mrs 624-6042
2118 Wright Bert H ◎ 623-0999
2119 Stokes Randy L ◎ 781-8897
2121 Miksell Elliott
2125 Schulte Gregory A phys 623-7292
2128 West Norman ◎ 624-1059
W 22D ST INTERSECTS
2201★Starlin Floyd
2205 Hicks Mable N Mrs ◎ 623-6287
★Oltman Virginia L Mrs 623-4196
2205½★Fontana Lela M Mrs 781-0078
2209★Miller Roger L 782-0837
2209½ No Return
2211★Pichoda Raymond ◎
2219 Anderson Odie F Mrs ◎ 624-7873
2225 Kelly Earl V ◎ 624-7018
2229 Vickers Walter L ◎ 624-5685
2301 Martin Leonard E ◎ 623-7482
2311 Hearing & Speech Building 781-2311
Wasson H Waldo audiologist 781-2311
2316 Voegelin Marie E Mrs 781-2912
2318 Cohee A David ◎ 623-3336
2320 Randall James J ◎ 624-0411
2324 Routledge Marvin E ◎ 624-3329
2329 Powell Robt G phys 781-1132
2330★Stokes Paul P ◎ 781-5609
2401 Butler Patk L phys 781-3630
Birsner Frank phys 623-1311
Dorrien Brian J dentist 781-6322
Mc Pike Lloyd H phys 623-8141
Lewis Optical 781-6144
Sapp John D dentist 781-5600
2402 Lundstrum Robt ◎ 624-8073
2410★Price James B
2411 Medical Arts Building
B113 Vacant
B114 Vacant
B115 Young & Gaston Radiologists 624-1920
FLOORS
1st Fl Medical Arts Apothecary Shop (Medical Dev Co) 624-7100
ROOMS
104 Ferguson's Medical Laboratories 623-6330
104 Esther John R phys 623-6330
105 Hurst Wilfred W phys 624-3232
106 Vacant
107 Southwest Radiology Ltd phys 624-5882
110 Vacant
111 Hallaba M A S phys 781-4404
111 Willcoxon Robt L phys 781-4404
112 Newton Baxter dentist 781-3800
200 Burch John E phys 624-1739
202 Vacant
203 Vacant
204 Alquist V Dale phys 623-4942

Target Street	Cross Street	Source
✓	-	Polk's City Directory

S SERGEANT AVE 1976

SERGEANT AV—Contd
1815 Elliott Edith M Mrs ◎ 623-1950
1817 Feller Steven R ◎ 624-4190
1818 Apartments
1 Janes Marion E Mrs ◎ 623-4960
1 Ritter Margt 781-3962
1819 Wolfe Eliz J Mrs ◎ 623-6342
1822 Henderson Virgil N ◎ 623-7724
1823 Copeland Elza E ◎ 781-5649
1824 Drew Dennis A ◎ 781-2515
1825★Mc Kinney Thomas L ◎ 624-1780
1832 Lanham Bob G ◎ 623-1336
W 19TH ST INTERSECTS
1903 No Return
1905★Farney Borden W ◎ 623-5311
1908 Skinner Joseph F ◎ 624-2869
1908½ Vacant
1911★Ruiz Angel ◎ 623-8097
1912 Thelen Charles C ◎ 781-3747
1916 Johnson Charles L ◎ 623-4083
1917 Heeter John R 781-0047
1918 Bray Oscar R ◎ 623-4986
1919 Lewis Wm F ◎ 781-2138
1923 Business Men's Assurance ins co 623-1857
Proteus Associates 781-5131
★Wills Bill

W 20TH ST INTERSECTS
2001 Talbott James M Jr dentist 623-8444
Detar David L dentist 781-8240
2008 State Ozark Gateway Regional Planning Comn 781-3220
2011 Ozark Gateway Reg Planning Comn (Parking Lot)
2030 Robins Phoebe E Mrs ◎ 623-5381
W 21ST ST INTERSECTS
2101 No Return
2102★Zumwalt Wm ◎ 624-3582
2105 Hill Harry L ◎ 624-5262
2106 Tierney Thomas B ◎ 624-7595
2107 Vacant
2108 Mc Call Warren R ◎ 781-5432
2108½ White Lydia Mrs 623-1208
2111 Marley Mary E Mrs ◎ 781-3876
2114 Powell Max ◎ 623-2678
2118★Mize Cyril S
2121 Hedgcorth Robt E ◎ 781-1310
2122 Stinnett Freda Mrs ◎ 623-7521
2124 Kelsey John W ◎ 781-2479
2130 No Return
2131 Bellairs Phil ◎ 624-0299
W 22D ST INTERSECTS
2201★Hatten Donald 781-3780
2202 Middleton Marion 624-8081
2205 Orton Dennis W ◎ 781-6859
2206 Pool Marie J Mrs ◎ 781-1929
2208 Wright Harold O ◎ 623-9175
2208½ Porter Nelson
2211 Giger Leo L ◎ 623-6885

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 20TH ST 1976

MOFFET AV INTERSECTS
606★Heistand Beverly I
609 Magic Mirror 781-8340
611 Melin's Grocery 623-3812
611½ Vacant

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SERGEANT AV INTERSECTS
710 City Family Planning 781-0352
Economic Security Corp Southeast Area org welfare 781-0352
Head Start
JACKSON AV INTERSECTS
CONNOR AV INTERSECTS
911★Freeman June P 623-0958
915 Lashley Ruby C Mrs ◎ 624-5063
917 La Plante Alberta E Mrs ◎ 623-6598
919 Owens A Ray ◎
BIRD AV INTERSECTS
1003 Mobley Elsie J Mrs 781-1136

45

MURPHY AV INTERSECTS
PICHER AV INTERSECTS
1217 Vacant
EMPIRE AV INTERSECTS
1304 Blendville Laundry 623-1171
1306 Vacant
1312 Riley's Quality Furniture 624-1776
1314 A-One Typewriters 781-5020
1316 John's Twentieth Street Package Store liquors 623-9197
ANNIE BAXTER AV INTERSECTS

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 21ST ST 1976

W 21ST ST—Contd
418 Snedeker Marcus H ◎
BYERS AV INTERSECTS
510★Mc Reynolds Peggy 781-5827
514 Tom's Peanuts & Candies whol 624-3078
MOFFET AV INTERSECTS
608 Walden David L
615 Bud & Don's Florist 781-0545
615½ Hill Weldon R
617 Isgrigg Virgil E

37

SERGEANT AV INTERSECTS
710 Vacant
714 Vacant
JACKSON AV INTERSECTS
CONNOR AV INTERSECTS
901 Ford Roland ◎ 781-3059
905 Vacant
910 Vacant
BIRD AV INTERSECTS
1012 Vacant
MURPHY AV INTERSECTS
sw cor City Water Works Co (Pump Sta And Filter Plant) 624-3361
PICHER AV INTERSECTS
EMPIRE AV INTERSECTS
ANNIE BAXTER AV INTERSECTS
PORTER AV INTERSECTS
HARLEM AV INTERSECTS
MAIDEN LA INTERSECTS

15

1727 Smith Willard
1728★Blair Imogene
1731 Woody Billy E ◎ 624-9179
1732 Radunsky Joe 623-7857
1735 Mounce Forrest R ◎ 623-5399
1739★Smiley Lemuel D 623-0090
1740 Green Nile ◎ 623-7411
1743 Smiley Lawrence D ◎ 624-8069
1744 Lampkins Dolores L 623-2353
MC COY AV INTERSECTS
1801 Daniels Melvin L ◎ 623-7462
Stegall Faye Mrs 623-7462

Target Street	Cross Street	Source
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S JACKSON AVE 1971

JACKSON AV—Contd
STREET CONTINUED
1616 Sawyer Ralph H ◎ 624-4206
1622 Friend Margie R Mrs ◎ 624-2493
1624 Schroth Lewis R ◎ 623-9102
1627 Dudley Legrand C ◎ 623-7624
W 17TH INTERSECTS
1701 Vacant
1702 Jackson Walter C
1705 Yeager Larry E ◎ 624-6713
1706 Warner Melvin C ◎ 623-0950
1710 Bishop Geraldine Mrs 781-1409
1713 Pentecostal Works Of Faith
1714 Getz Tedra J Mrs ◎
1715 Edminster Ida Mrs ◎ 623-0816
1719 Keith L Pearl Mrs ◎ 624-4462
1720 Genisio Charles P ◎ 623-6863
1723 Hutcheson Loretta M Mrs beauty shop ◎ 623-2972
1727 Righthouse Ione Mrs ◎ 624-7821
1730 Larson Carl G ◎ 623-6413
1731 Breckenridge Allen J Rev ◎ 623-5154
W 18TH INTERSECTS
1801 Jones Mildred F Mrs ◎ 624-4253
1805 Rader Robt L ◎ 624-2125
1811 Wilcoxson Wm R ◎ 623-5498
1815 Roach Roy ◎ 623-7940
1817 Vacant
1821 Jones Paul D ◎ 624-7320
1827 Pekarek Lawrence E ◎ 624-8277
1831 La Duca Albert E ◎ 781-2960
W 19TH INTERSECTS
1901 Yocum Wm W ◎ 623-6390
1902 Vacant
1906 Dorothy Fay Apartments 624-2069
1 Reynolds Helen Mrs 624-5142
2 O'Neill Margt K 781-1966
2 Johannes Kathleen K 781-1966
3 Ellison Mike L 781-1855
4 Stover Gary L 624-0450
1906½ Fisher Chris
Shaffer Henry J 623-7826
1907 Niles Walter I ◎ 624-2069
1908 Garner Delores Mrs ◎ 624-7446
1911 Hawks Mabel E Mrs beauty shop ◎ 623-7935
1918 Miller Effie L Mrs ◎ 623-8208
1919 Readshaw Robt A ◎ 623-4587
1922 Scott Helen Mrs ◎ 624-3158
1923 Melin Charles F ◎ 623-5417
1924 Albrecht Juan E 624-7695
Woods Don
Schulze Lillian Mrs 624-5476
1925 Russell Edw E ◎ 781-3015
1928 Illidge Robt J 623-8615

11

W 20TH ST INTERSECTS
2001 Miller Clara M Mrs 624-8057
Freeman Hospital (Elec Shop)
2002 Eliscu Juliette M phys 623-5222
2002½ Carlisle Leslie 781-5108
2006 Wood Wm S 781-0321
2007 Vacant
2011 Toon Wm R 624-0939
2012 Brothers Paul E ◎ 781-3084
2015 Vacant
2017 White Sally Mrs
2018 Miller Leonard G ◎ 623-3794
2020 Albert David L ◎ 623-2884
2021 Cerebral Palsy Office 624-5395
2022 Beighley Lavina Mrs 623-5908
2023 Freeman Hospital Development Center 624-5395
2030 Bourassa Edw J ◎ 624-7377
W 21ST ST INTERSECTS
2101 England Don V dentist 781-1550
2102 James E Weston ◎ 781-2681
2105 Gordon Clyde H 623-3574
2106 Fowler Arlene Mrs ◎ 623-9017
2108 Dennis John W 623-3371
2110 Brown Ruby R Mrs 623-5057
2114 Hennessy John J ◎ 623-0617
2115 Calvin Mary E Mrs ◎ 623-1524
2116 Dukes Dennis J 624-0795
2118 Wright Bert H ◎ 623-0999
2119 Monroe Nancy J Mrs 624-7015
2121 Williams Bernie V ◎ 624-5507
2125 Schulte Gregory A phys 623-7292
2128 Holt Floyd J ◎ 624-6738
W 22D ST INTERSECTS
2201 Barrett Ethel M Mrs ◎ 623-3473
2205 Hicks Mable N Mrs ◎ 623-6287
2205½ Cannady C P
2209 Holt Sam A 781-1072
2209½ Briggs Lucille Mrs 781-0432
2211 Rea Ammon L ◎ 624-0923
2219 Anderson Odie Mrs ◎ 624-7873
2225 Earl's Fix It Shop sharpening serv 624-7018
Kelly Earl V ◎ 624-7018
2226 Vacant
2229 Vickers Walter L ◎ 624-5685
2301 Martin Leonard E ◎ 623-7482
2311 Hearing & Speech Building 781-2311
Wasson H Waldo audiologist 781-2311
2316 Voegelin Marie E Mrs 781-2912
2318 Cohee A David ◎ 623-3336
2320 Randall James J ◎ 624-0411
2324 Routledge Marvin E ◎ 624-3329
2329 Powell Robt G phys 781-1132
2330 Moffett Jim R ◎ 781-2376
2401 Post Winfred L phys 623-5374
Butler Patk L phys 781-3630
Mc Pike Lloyd H phys 623-8141
Walker Keith J optn 623-3448
Bergman Donald R phys 781-0800
Jenkins Edw W phys 781-0800
Saint Ville Joseph M phys 781-0800
2402 Lundstrum Robt ◎ 624-8073
2410 Thomas Frank A ◎ 624-6063
2411 Medical Arts Building
B114 Chase Ned B Jr phys 624-1123
B115 Hall & Young Radiologists 624-1920
B116 Bladow Terrence C phys 781-3121
Floors
1st Fl Medical Arts Pharmacy (Medical Development Co) 624-7100
111 Adams Robt B phys 781-3100
101 Mac Laughlin James C phys 781-3100
112 Newton Baxter dentist 781-3800
Rooms
104 Ferguson's Medical Laboratories 623-6330
104 Esther John R phys 623-6330
104 Ferguson Ralph L phys 623-6330
105 Hurst Wilfred W phys 624-3232
106 Walker Paul W phys 623-1666
107 Papp Sandor D phys 624-5882
107 Vinson Harold A phys 624-5882
110 Wooldridge Bart F phys 624-7221
110 Bentlage Charles H phys 624-7221
200 Burch John E phys 624-1739
201 Ferguson Lewis H phys 624-6660
202 Fritsch Andrew J phys 623-1333
203 Hallaba M A S phys 781-4404
204 Alquist V Dale phys 623-4942
205 Barnett Norman H phys 623-7913
206 Wieman Harry K phys 623-1362
207 Smith Roland T phys 624-1000
208 Vacant
209 Vincent Jack W dentist 623-6141
300 Vacant
301 Davis Charles S phys 623-7448
302 Hamilton Eug H phys 623-2066
303 Chesney Geo W phys 623-1211
304 Koehler John W phys 623-8148
305 Schoeberl Cletus B phys 624-6639
306 Rosenberg Benj D dentist 781-2220

Target Street	Cross Street	Source
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S SERGEANT AVE 1971

1825 Dailey Geo E
1832 Lanham Bob ◎ 623-1336
W 19TH ST INTERSECTS
1903 Vacant
1905 Johnson Maude S Mrs ◎ 624-1010
1908 Skinner Joseph F ◎ 624-2869
1911 Rhoads Lawrence C 623-3258
1912 Taylor Wm L ◎ 781-1335
1916 Johnson Charles L ◎ 623-4083
1917 Thompson Jennie S Mrs 624-4508
1918 Bray Oscar R ◎ 623-4986
1919 Lewis Wm F ◎ 781-2138
1923 Wilson Alice H Mrs phys 624-5271
Wilson Charles E bkpg serv 624-5271

W 20TH ST INTERSECTS
2001 Talbott James M Jr dentist 623-8444
Shanahan Mary P phys 623-6525
2008 Freeman Hospital 623-2801
2011 Freeman Hosp Parking Lot
2030 Robins Phoebe E Mrs ◎ 623-5381
W 21ST ST INTERSECTS
2101 Hudson Vernon C ◎ 623-8158
2102 Jones Eunice M Mrs ◎ 623-4008
2105 Hill Harry L ◎ 624-5262
2106 Tierney Thomas B ◎ 624-7595
2107 Vacant
2108 Hawkins Richd I ◎ 624-1706
2108½ Owens Neal
2111 Marley Sidney H ◎ 781-0361
2114 Powell Max ◎ 623-2678
2118 Record Effie J Mrs ◎ 624-9361
2121 Cooper Raioma Mrs
2122 Storm Richd
2124 Vacant
2130 Bennett Jeanne

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 20TH ST 1971

n

4 Vacant
518 King Audra Mrs 624-7129
MOFFET AV INTERSECTS
606 Demo Bertha Mrs 623-6971
609 Patt's Talk Of The Town beauty shop
624-3437
611 Melin's Grocery 623-3812
611½ Link Victoria
Barger Peggy J 624-5836

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SERGEANT AV INTERSECTS
710 Vacant
JACKSON AV INTERSECTS
CONNOR AV INTERSECTS
911 Merritt James L 623-4937
915 Snyder Mary E Mrs ◎ 624-5063
917 La Plante Alberta E Mrs ◎ 623-6598
919 Thorburn Bertha E Mrs ◎ 624-7750
BIRD AV INTERSECTS
1003 Mobley Elsie J Mrs 781-1136
MURPHY AV INTERSECTS
PICHER AV INTERSECTS
1217 Genereux Marie F Mrs ◎ 624-5839

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 21ST ST 1971

205½ Huddleston Vivian Mrs
209 Kilborn A Mariel Mrs 623-8668
212 Keen Jack
WALL AV INTERSECTS
PEARL AV INTERSECTS
411 Cox Velma Mrs
415 Vacant
418 Jackson Eva R Mrs ◎ 624-3988
BYERS AV INTERSECTS
510 Vickers Gary A 781-5827
514 Tom's Peanuts & Candies whol 624-3078
MOFFET AV INTERSECTS
608 Hoover Wm G 623-1317
615 Bud & Don's Florist 781-0545
615½ Vacant
617 Isgrigg Virgil E ◎ 781-0545

37

SERGEANT AV INTERSECTS
710 Vacant
714 Hodson Luther W ◎ 623-7363
716 Bentley Lucille Mrs 624-6445
718 Vacant
JACKSON AV INTERSECTS
CONNOR AV INTERSECTS
901 Ford Roland ◎ 781-3059
910 Mc Combs Hattie E Mrs
912 Vacant
BIRD AV INTERSECTS
1012 Mullins Mary M Mrs
MURPHY AV INTERSECTS

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-	✓	Polk's City Directory

S JACKSON AVE 1967

---W 19TH INTERSECTS
1901 SERAGE DOUGLAS C • MA3-0137
1902 COKER RUBIN A •
1906 DOROTHY FAY APARTMENTS
MA4-2069
1 REYNOLDS HELEN MRS MA4-5142
2 O'NEILL MARGT MRS MA3-7432
3 ROWE MARION
4 OSBORNE DONALD E MA3-7792
1906½ JONES MARY E MRS MA4-2159
SHAFFER H J MA3-7826
1907 SMILEY WM E JR • MA4-2965
1908 GARNER DELORES MRS •
MA4-7446
1911 HAWKS MABEL E MRS BEAUTY
SHOP • MA3-7935
1918 MILLER IRA A • MA3-8208
1919 GIDEON ARVAL A • MA4-5398
1922 SCOTT HELEN MRS • MA4-3158
1923 MELIN CHARLES F • MA3-5417
1924 ALLISON LA VELMA MRS
MA3-0218
SCHULTZ LILLIAN
1925 ERDMANN OTTO C • MA3-6627
LAFAYETTE LIFE INSURANCE CO
MA3-6627
1928 GAMBLE LUCILLE MRS •
MA4-1492

11

---W 20TH ST INTERSECTS
2001 MILLER GUY W MA4-8057
SNYDER SALLY MA4-1566
2002 ELISCU JULIETTE M PHYS
MA3-5222
2002½ CARLYLE LESLIE K MA4-6536
2006 SULLIVAN RANDALL L MA4-1923
2007 BOURASSA EDW J MA4-7377
2011 TOON WM R MA4-0939
2012 SKALSKI FRANK A MFG REP
MA4-5071
2015 OZARK PSYCHIATRIC FOUNDATION
MA3-2833
2017 GIBSON HAROLD G MA3-4816
2018 MILLER LEONARD G • MA3-3794
2020 ALBERT DAVID • MA3-2884
2022 BEIGHLEY ALVINA MRS MA3-5908
2023 FREEMAN HOSPITAL DEVELOPMENT
CENTER MA4-5395
2030 MERRILL LANGDON T • MA3-3898
---W 21ST ST INTERSECTS
2101 ENGLAND DON V DENTIST
SU1-1550
2102 ISLEY JESSIE G MA4-5901
2105 GORDON CLYDE H • MA3-3574

Target Street	Cross Street	Source
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S SERGEANT AVE 1967

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1911 RHOADS LAWRENCE C MA3-3258
1912 TAYLOR WM L ● SU1-1335
1916 VACANT
1917 HARGIS VINA B MRS ● MA3-7342
1918 LANDERS BEULAH V MRS ●
1919 CHURCH EDITH L MRS ●
MA4-8471
1923 WILSON ALICE H MRS PHYS
MA4-5271
WILSON CHARLES E BKPG SERV ●
MA4-5271

11

---W 20TH ST INTERSECTS
2001 TALBOTT, JAMES M JR DENTIST
MA3-8444
SHANAHAN MARY P PHYS
MA3-6525
2008 FREEMAN HOSPITAL MA3-2801
2011 FREEMAN HOSP PARKING LOT
2030 ROBINS PHOEBE E MRS NURSE ●
MA3-5381
---W 21ST ST INTERSECTS
2101 HUDSON VERNON C ● MA3-8158
2102 JONES EUNICE M MRS ●
MA3-4008
2105 HILL HARRY L ● MA4-5262
2106 TIERNEY THOMAS B ● MA4-7595
2107 VACANT
2108 HAWKINS RICHD I ● MA4-1706
REAR VACANT
2108½ TAYLOR ERMA L MRS
2114 POWELL MAX ● MA3-2678
2118 RECORD EFFIE J MRS ●
MA4-9361
2121 ANDERSON NORMAN L SU1-1531
2122 STINNETT LUTHER J ● MA3-6664
2124 BARNS LARRY J
2130 HARMON KATHERINE E MRS
2131 REPPOND DONALD G SU1-0033
---W 22D ST INTERSECTS

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 20TH ST 1967

4 FELKINS JAMES M MA3-1967
518 KING AUDRA MRS MA4-7129
---MOFFET AV INTERSECTS
606 COSSEY EVA D MA3-5890
609 PATT'S TALK OF THE TOWN
BEAUTY SHOP MA4-3437
611 MELIN'S GROCERY MA3-3812
611½ JENNINGS GERTRUDE
---SERGEANT AV INTERSECTS
710 VACANT
---JACKSON AV INTERSECTS
---CONNOR AV INTERSECTS
911 WATSON VICTOR R MA3-6115
915 SNYDER MARY E MRS ● MA4-5063
917 LA PLANTE ALBERTA E MRS ●
MA3-6598
919 THORBURN BERTHA E MRS ●
MA4-7750
---BIRD AV INTERSECTS
1003 BARTON MARY E MRS MA4-0596
MOBLEY ELSIE J SU1-1136
KRAPF IVA J MRS MA4-8275
---MURPHY AV INTERSECTS
---PICHER AV INTERSECTS
1216 CAMDEN DORIS D MRS
1217 GENEREUX MARIE F MRS ●
MA4-5839
---EMPIRE AV INTERSECTS
1304 BLENDVILLE LAUNDRY MA3-1171
1306 VACANT
1312 TWENTIETH STREET TAVERN
MA3-9544
1314 VACANT
1316 MONTALDO GEO LIQUOR DEPOT
MA3-6090
---ANNIE BAXTER AV INTERSECTS
1415 CAMPBELL WM M ● MA3-7825
1417 VACANT

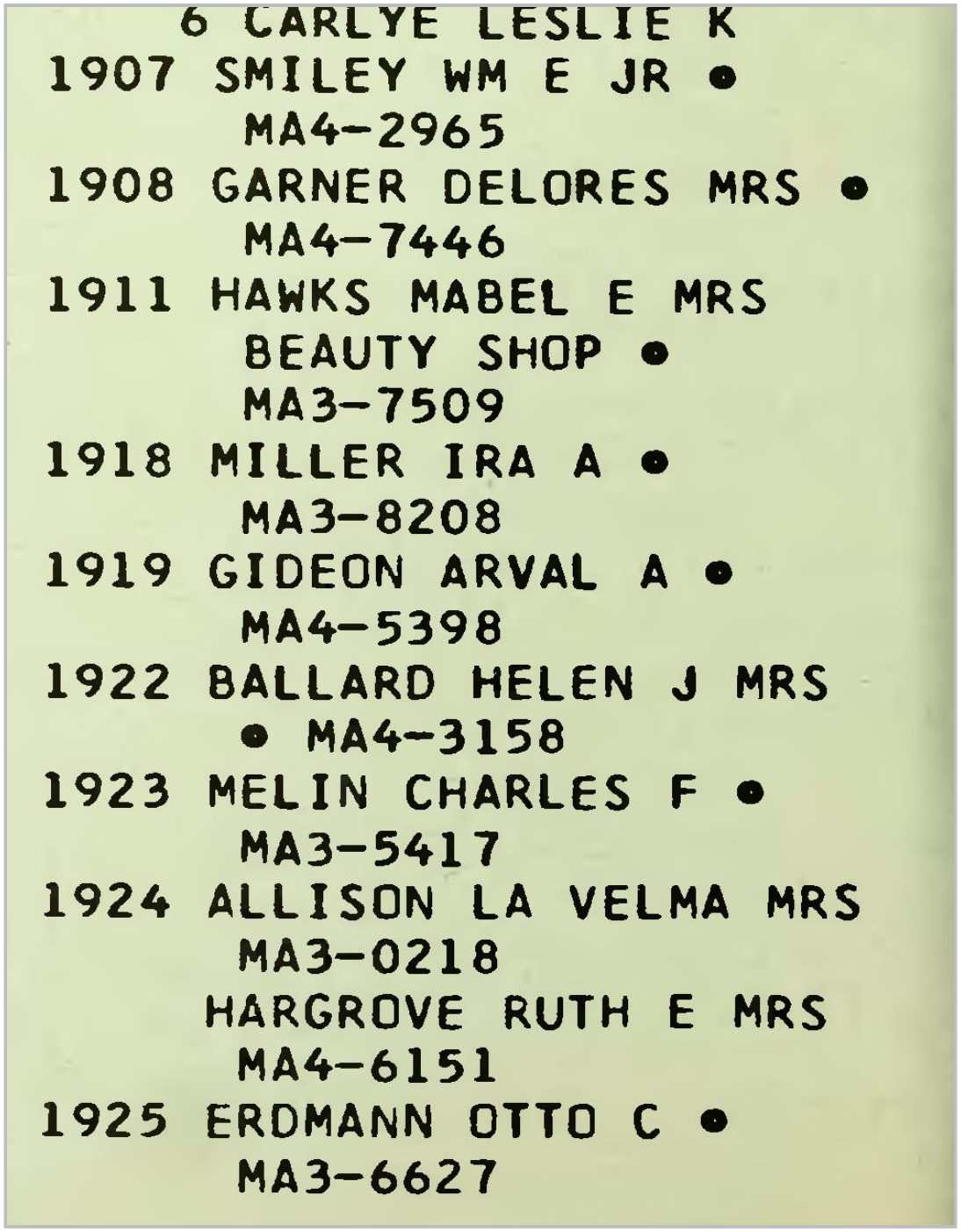
Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 21ST ST 1967

CO PEANUTS & CANDY MA4-3078
---MOFFET AV INTERSECTS
608 HUNSAKER JAMES A MA4-8490
615 BUD & DON'S FLORIST SU1-0545
615½ DAVIS DONALD E SU1-0545
617 CASHION ELMER L MA4-9169
---SERGEANT AV INTERSECTS
710 YORK BONNIE J MRS SU1-0097
714 HODSON LUTHER W ● MA3-7363
716 MONROE NANCY J MRS MA4-7015
718 VACANT
---JACKSON AV INTERSECTS
---CONNOR AV INTERSECTS
910 MC COMBS HATTIE E MRS
912 VACANT
---BIRD AV INTERSECTS
1012 MULLINS MARY
---MURPHY AV INTERSECTS
SW COR JOPLIN WATER WORKS CO
(PUMP STA AND FILTER
PLANT) MA4-3361
---PICHER AV INTERSECTS
---EMPIRE AV INTERSECTS
---ANNIE BAXTER AV INTERSECTS
---PORTER AV INTERSECTS
---HARLEM AV INTERSECTS
---MAIDEN LA INTERSECTS
1727 SMITHY WALLACE B ● SU1-1802
1728 STEPHEN LE ROY J MA3-2876
1731 WOODY BILLY E ●
1732 RAWL ELOISE MRS ● MA3-1704

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S JACKSON AVE 1964



6 CARLYE LESLIE K
1907 SMILEY WM E JR •
MA4-2965
1908 GARNER DELORES MRS •
MA4-7446
1911 HAWKS MABEL E MRS
BEAUTY SHOP •
MA3-7509
1918 MILLER IRA A •
MA3-8208
1919 GIDEON ARVAL A •
MA4-5398
1922 BALLARD HELEN J MRS
• MA4-3158
1923 MELIN CHARLES F •
MA3-5417
1924 ALLISON LA VELMA MRS
MA3-0218
HARGROVE RUTH E MRS
MA4-6151
1925 ERDMANN OTTO C •
MA3-6627

Target Street	Cross Street	Source
-	✓	Polk's City Directory

S JACKSON AVE 1964

JACKSON AV--CONTD
1928 LAIRD A JAMES
MA4-1492

11
---W 20TH INTERSECTS
2001 MILLER GUY W
MA4-8057
2002 ELISCU JULIETTE M
PHYS MA3-5222
2002½ SHOUP DONALD L
MA4-7843
2006 ROSS FANNIE C MRS •
MA3-3962
2007 JEWETT WM R SU1-1368
2011 PICKERING STANLEY W
MA3-2368
2012 VACANT
2015 FREEMAN HOSPITAL
MENTAL HEALTH
CLINIC MA3-2833
WETZEL RITA J
2017 GIBSON HAROLD GENE
MA3-4816
2018 MYERS HAROLD W
MA3-7826
REITHER YVONNE E MRS
• MA3-0695
2020 ALBERT DAVID •
MA3-2884
2021 GRAVES JAMES L
MA4-9227
2022 BEIGHLEY ALVINA MRS
• MA3-5908
2023 HARTZELL ADRIN E
MA3-3135
2030 MERRILL LANGDON T •
MA3-3898
---W 21ST INTERSECTS
2101 ENGLAND DON V
DENTIST SU1-1550
2102 VACANT
2105 GORDON CLYDE H •
MA3-3574
2023 LAFFERRY NOLAN L
2108 DENNIS JOHN W
MA3-3371
2110 BROWN RUBY R MRS
MA3-5057
2114 HENNESSY JOHN J •
MA3-0617
2115 CALVIN WILMER K •
MA3-1524
2116 NEAL HAZEL B MRS
MA3-8323
2118 WRIGHT BERT H •
MA3-0999
2119 SLOAN PAUL W •
2121 WILLIAMS BERNIE V •
MA4-5507
2125 SCHULTE GREGORY A
PHYS MA3-7292
2128 HOLT FLOYD J •
---W 22D INTERSECTS
2201 BARRETT ETHEL M MRS
• MA3-3473
2205 HICKS JESSE W •
MA3-6287
VACANT
2205½ VACANT
2209 HOLT SAM A SU1-1072
2209½ HILL ROBT G
2211 REA AMMON BLDG CONTR
• MA4-0923
2225 KELLY EARL V •
2226 SAINT JOHN'S
HOSPITAL MA4-1085
2229 MYERS HOMER L
MA3-1029
2231 VACANT
2301 MARTIN LEONARD E •
MA3-7482
2316 VOEGELIN MARIE MRS
2318 COHEE AMASA D CARP •
MA3-3336
2320 RANDALL JIM J •
MA4-0411
2324 ROUTLEDGE IDA M MRS
• MA4-3827
2329 POWELL ROBT G PHYS
SU1-1132
2330 SMITH RALPH L
2331 STARKS RALPH J •
MA3-9114
2402 LUNDSTRUM RUDOLPH L
• MA4-2067
2410 THOMAS FRANK A •
MA4-6063
2411 MEDICAL ARTS
BUILDING
FLOORS
1ST FL MEDICAL ARTS
PHARMACY
(MEDICAL
DEVELOPMENT
CO) MA4-7100
ROOMS
101 HALL MARVIN F PHYS
MA4-1920
101 YOUNG C CLYDE
PHYS MA4-1920
104 FERGUSON'S
MEDICAL
LABORATORIES
MA3-6330
105 HURST WILFRED W
PHYS MA4-3232
106 WALKER PAUL W
PHYS MA3-1666
107 PAPP SANDOR D
PHYS MA4-5882

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S SERGEANT AVE 1964

SERGEANT AV--CONTD
1815 ELLIOTT CHARLES B • MA3-1950
1817 GARDNER CLYDE I MA4-3025
1818 APARTMENTS
1 JANES MARION E MRS • MA3-4960
2 VACANT
3 BATMAN SUSIE MRS
4 VAN HOOSER SYLVIA MRS MA4-6691
1819 WOLFE ELIZ J MRS • MA3-6342
1822 HENDERSON VIRGIL N • MA3-7724
1823 NO RETURN
1824 KOZLOWSKI LE ROY R MA4-8226
1825 NOEL KENNETH L PNTR CONTR • MA3-5606
1832 HEARN DAVID R MA3-6571
---E 19TH INTERSECTS
1903 NO RETURN
1905 JOHNSON MAUDE S MRS • MA4-1010
1908 SKINNER JOSEPH F • MA4-2869
1911 RHOADS LAWRENCE C MA3-3258
1912 MARLATT GERALDINE L MRS MA3-1483
1916 WALLAR ELIZ H MRS • MA3-6445
1917 HARGIS VINA B MRS • MA3-7342
1918 RUTLEDGE ERVA
1919 CHURCH EDITH L MRS • MA4-8471
1923 WILSON ALICE H MRS PHYS MA4-5271
WILSON CHARLES E BKPG SERV • MA4-5271

11

---W 20TH INTERSECTS
2001 TALBOTT,JAMES M DENTIST MA3-8444
2008 FREEMAN HOSPITAL MA3-2801
2011 FREEMAN HOSP PARKING LOT
2030 ROBINS PHOEBE E MRS • MA3-5381
---W 21ST INTERSECTS
2101 HUDSON VERNON C • MA3-8158
2102 JONES EUNICE M MRS • MA3-4008
2105 HILL HARRY L • MA4-5262
2106 TIERNEY THOMAS B • MA4-7595
2107 VACANT
2108 BRAND GROVER JR • MA3-3785
REAR WILSON WAYNE A
2108½ LANE MARY MRS
2111 VACANT
2114 POWELL MAX • MA3-2678
2118 RECORD EFFIE J MRS •
2121 ENDICOTT MYRTLE A MRS • MA3-5485
2122 STINNETT LUTHER J • MA3-6664
2124 SMITH BERTHA E MRS • MA4-2691
2130 BURTON DOROTHY R
2131 VACANT
---W 22D INTERSECTS
2201 BORDEN NOEL L
2202 PENCE JERRY E MA3-1057
2205 HENDRY AMY F MRS • MA3-1068
2206 POOL MARIE J MRS • SU1-1929
2208 WRIGHT HAROLD O MA3-9175
2208½ MC CARCKEN BILLY E
2211 GIGER LEO L • MA3-6885
2215 CRUMBLISS ALTA M MRS • MA3-2319
2216 BEDFORD ARTH R •
2217 KOEHLER JESSIE M MRS •
2220 PUTNAN JAMES O
2221 BIRK ELLIS G • MA3-0066
2226 DAVIS DENNIS L • MA3-7490
---W 23D INTERSECTS
2302 TANNER ELZIE MA3-9133
2303 WORLEY EARL R REV MA4-0102
2304 VACANT
2316 ALLEN RALPH A • MA3-5691
2317 PROVANCE WARD S JR • MA3-5112
2319 BARRY ROBERTA M MA4-4486
2320 GIBSON VERNON M • MA3-8903
2321 SECREST JOHN C • MA3-2321

Target Street	Cross Street	Source
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W 20TH ST 1964

MA4-7129
---MOFFET AV INTERSECTS
606 LYNGAR JACQUELINE
MA1-1588
609 VACANT
611 MELIN GROCERY
MA3-3912
611½ VACANT
MAGRUDER BEULAH I
MRS SU1-0524
---SERGEANT AV INTERSECTS
710 GREENLEE CAFE
MA3-9444
GREENLEE JESS W •
MA3-9444
---JACKSON AV INTERSECTS
---CONNOR AV INTERSECTS
911 VACANT
915 SNYDER MARY E MRS •
MA4-5063
917 LA PLANTE ALBERTA E
MRS • MA3-6598
919 THORBURN BERTHA E MRS
• MA4-7750
---BIRD AV INTERSECTS
---MURPHY BLVD INTERSECTS
---PICHER AV INTERSECTS
1003 APARTMENTS
1 HART ADA M MRS
MA4-7735
2 CASTNER BEULAH M
MRS
3 LAWSON RICHD
1216 BYRD CLIFFORD L
MA4-0010

Target Street	Cross Street	Source
-	✓	Polk's City Directory

W 21ST ST 1964

---JACKSON AV INTERSECTS
710 WATKINS LARRY
714 HODSON LUTHER W ●
MA3-7363
716 MONROE NANCY J MRS
MA4-7015
718 TRI-STATE CREDIT &
COLLECTION SERV
COLLECTION AGCY
MA4-8181
---SERGEANT AV INTERSECTS
---JACKSON AV INTERSECTS
910 MC COMBS HATTIE E MRS
---CONNOR AV INTERSECTS
---MOFFET AV INTERSECTS
---BIRD AV INTERSECTS
1012 MC CLAIN ROY R
TRUCKER MA4-1893
---MURPHY AV INTERSECTS
SW JOPLIN WATER WORKS CO
(PUMP STA AND FILTER
PLANT) MA4-3361
---PICHER AV INTERSECTS
---EMPIRE AV INTERSECTS
---ANNIE BAXTER AV
INTERSECTS

APPENDIX D

PREVIOUS REPORTS

ENVIRONMENTAL RESTORATION LLC

1666 Fabick Drive
St. Louis, MO 63026
(636) 227-7477
FAX (636) 227-6447

October 28, 2024

Mr. Bryan Wicklund
City of Joplin
602 S. Main St
Joplin, MO 64801

Re: **Report - Asbestos Inspection**
Old Freeman Hospital
2008 S. Sargent
Joplin, MO 64801

Dear Mr. Wicklund,
Environmental Restoration, LLC (ER) was retained to conduct an inspection for asbestos in the building at the above address. This report provides a summary of the field activities and analytical results, and has been prepared in general accordance with the rules outlined in 40 CFR Part 61, EPA National Emission Standards for Hazardous Air Pollutants (NESHAP).

The following sections outline the results of the survey, as well as the methods and details of the inspection process. The sample analyses report is included in the Appendix.

1.0 Executive Summary

Based upon visual observations, thirty-seven (37) suspect Asbestos Containing Materials (ACMs) were identified and sampled. The materials sampled consisted of roofing material, brick mortar, glazing, thermal system insulation (TSI), TSI coating, fire brick, plaster, drywall, ceiling tile and floor tiles/flooring plus related mastic. Bulk samples were collected and analyzed for asbestos content utilizing Polarized Light Microscopy (PLM) analysis. Of the individual materials tested, asbestos was found in twenty (20) of the samples.

2.0 Inspection and Sampling Procedures

The scope of this inspection included:

- An inspection to visually identify suspect asbestos containing material (ACM) either friable or nonfriable

- Identification of locations of homogeneous areas of suspect materials from which samples are to be obtained as outlined in the rules, or identification of homogeneous areas of materials which will be "assumed" to contain asbestos.
- Accredited laboratory analysis of bulk samples collected to determine if the suspect materials contain asbestos.
- An assessment of all friable known or assumed ACM.

The inspection was conducted by Mitchell Hunt, an accredited inspector (Missouri Certificate #7011011524MOIR11109)). The inspector was given access to the facility by Mr. Jeff Oliver of the City of Joplin. A detailed visual examination was made of the accessible portions of the structure. Suspect ACM was grouped into homogeneous areas and representative sampling was completed.

3.0 Laboratory Analysis

Bulk samples obtained during the inspection were identified by description and location and date of collection. The samples were delivered to EMSL Laboratories in St. Louis, Missouri for laboratory analyses. EMSL voluntarily participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Quality Assurance Program under laboratory identification number 102959. The analysis is performed in general accordance with EPA Method 600/R-93/116 using polarized light microscopic techniques with dispersion staining for identification of mineral forms of asbestos. The quantification of asbestos in the sample is intended to be an estimate only. The results of the analysis are detailed in the report of bulk sample analysis for asbestos from EMSL, as provided in the Appendix.

4.0 Assessment

The subject building consists of a basement level with five stories above and is constructed of concrete, metal, Pyrobar and masonry blocks. The original building was built in 1923 with the northern addition added in the 1950s.

5.0 Findings

Thirty-seven separate homogeneous areas of the subject structure were identified as possible asbestos containing material. These homogeneous areas were sampled and analyzed to confirm the possible presence of asbestos fibers. Twenty of the collected samples were reported as asbestos containing material. The following table describes the regulated amount of asbestos containing analytical results:

SAMPLE NO.	DESCRIPTION	LOCATION	AREA AMOUNT	FRIABILITY
01	Black roofing tar material	Exterior ground (adjacent to south extent of building)	25 cf	No
04	Door glazing	Exterior	25 lf	No
06	TSI elbow of various sizes	Basement – Boiler room	Approx. 75 (unknown amount throughout building)	Yes
07	Tank insulation	Basement – Boiler room	9'x3' and 5'x15'	Yes
08	TSI of various sizes	Basement – Boiler room	50 lf (unknown amount throughout building)	Yes
13	Aerocell type TSI	Basement – "Bridge" room	Approx. 9 lf (unknown amount throughout building)	Yes
15	9" sq black floor tile	1st floor hallway	approx. 775	No
17	9" sq red floor tile	1st floor hallway	approx. 775	No
18	9" sq white floor tile	1st floor hallway	approx. 775	No
20	Vinyl floor sheeting – wood patterned	1st floor bathroom	approx. 35	No
24	9" sq white floor tile	2nd floor hallway	approx. 600	No
25	9" sq red floor tile	2nd floor hallway	approx. 600	No
26	9" sq black floor tile	2nd floor hallway	approx. 600	No
28	9" sq red floor tile	3rd floor hallway	approx. 700	No
29	9" sq white floor tile	3rd floor hallway	approx. 700	No
30	9" sq black floor tile	3rd floor hallway	approx. 700	No
32	9" sq red floor tile	4th floor hallway	approx. 1,070	No

33	9" sq black floor tile	4th floor hallway	approx. 1,070	No
34	9" sq white floor tile	4th floor hallway	approx. 1,070	No
37	Floor tile mastic	5th floor	approx. 2,000	No

6.0 Recommendations

Due to the reported presence of asbestos containing building materials in the subject structure and the planned demolition, ER recommends the regulated asbestos containing materials abatement and the demolition be conducted per applicable 40 CFR Part 61, Subpart M regulations.

Please review this report and call me at (314) 922-7014 with any questions. We appreciate the opportunity to provide this service to you and look forward to serving you in the future.

Sincerely,

Mitchell Hunt
Inspector

Appendix

Field Sampling Data Sheets

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
01 abc	black roofing tar material	25 cf	Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
02 abc	older building brick mortar exterior		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
03 abc	olderbuilding largerbrick mortar		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
04 abc	exterior door glazing	25lf	Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
05 abc	newerbuilding brick mortar exterior		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
06 abc	basement boiler room 2"-6" pipe TSI elbow	100	Surfacing ~~Thermal~~ Misc	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
07 abc	basement 5X18 9X3 boiler room tank insulation		Surfacing ~~Thermal~~ Misc	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
08 abc	basement boilerroom 18" pipe TSI	50lf	Surfacing ~~Thermal~~ Misc	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy Moderate ~~Light~~ None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
09 abc	basement boiler room ducting firebrick	2CY	Surfacing ~~Thermal~~ Misc	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
10a	basement trash incinerator firebrick	2CY	Surfacing ~~Thermal~~ Misc	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	~~Enclosed~~ Above Drop Ceiling Encapsulated None	High Moderate ~~Low~~

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
11abc	basement wall/ceiling		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
12abc	basement pyrobar wall bricks	150sf +?	Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy Moderate ~~Light~~ None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
13abc	basement bridge room + bathroom	9sf +?	~~Surfacing~~ ~~Thermal~~ Misc	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
14abc	basement wall skimcoat		~~Surfacing~~ Thermal Misc	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
15abc	1st Floor ~~brown~~ black 9" floor tile hallway		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
16abc	1st floor - hallway drywall		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
17abc	1st floor entrance room 9" floor tile red		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
18abc	1st floor entrance room 9" floor tile white		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
19abc	1st floor 2x2' suspended ceiling tile		Surfacing Thermal ~~Misc~~	~~Yes~~ No	~~No Damage~~ Damage Significant Damage	~~Within Reach~~ ~~Barely Reachable~~ Not Reachable	Heavy Moderate ~~Light~~ None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
20a	1st floor, bathroom wood patterned floor sheeting	20sf	Surfacing Thermal ~~Misc~~	Yes ~~No~~	~~No Damage~~ Damage Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy Moderate ~~Light~~ None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
21a	1st floor ceiling 1'x1' tile	125 sf	Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
22 a,b,c	1st floor plaster wall & ceiling		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
23 a,b,c	2nd floor plaster wall & ceiling		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
24a	2nd floor white 9x9 floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
25a	2nd floor red 9x9 floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
26a	2nd floor black 9x9 floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
27 abc	2nd floor black TSI sealant		~~Thermal~~ Misc	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
28a	3rd floor 9x9 red floor tile		Surfacing Thermal ~~Misc~~	Yes No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated None	High ~~Moderate~~ Low
29a	3rd floor 9x9 white floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
30a	3rd floor 9x9 black floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
31a	3rd floor plaster ceiling		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
32a	4th floor 9x9 red floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
33a	4th floor 9x9 black floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
34a	4th floor 9x9 white floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
35a	4th floor wall plaster		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	~~Enclosed~~ Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
36a	4th floor drywall		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy Moderate ~~Light~~ None	Rough Moderate ~~Smooth~~	~~Enclosed~~ Above Drop Ceiling Encapsulated None	High ~~Moderate~~ Low
37abc	5th Floor Floor tile mastic (only)		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
			Surfacing Thermal Misc	Yes No	No Damage Damage Significant Damage	Within Reach Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated None	High Moderate Low
			Surfacing Thermal Misc	Yes No	No Damage Damage Significant Damage	Within Reach Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated None	High Moderate Low
			Surfacing Thermal Misc	Yes No	No Damage Damage Significant Damage	Within Reach Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated None	High Moderate Low

Asbestos Bulk Sample Analysis Results

CHAIN OF CUSTODY

Page 1 of 3 page(s)

DATE: 10/17/24 TAT: Immediate __ Same Day __ 24 Hr __ 48 Hr __ 72 Hr __ 96 Hr __ 5 Day __

CLIENT: City of Joplin JOB NAME: Old Freeman Hospital JOB NUMBER: _____

Sample ID	Analysis	Material Location	Approximate Quantity	Material Description	Condition
01abc	PLM	exterior - older building	25sf	black roofing material	
02abc	PLM	exterior - older building		brick mortar	
03abc	PLM	exterior - older building		larger brick mortar	
04abc	PLM	exterior - newer building	25lf	door glazing	
05abc	PLM	exterior - newer building		brick mortar	
06abc	PLM	basement - boiler room		pipe elbow TSI	
07abc	PLM	basement - boiler room		tank insulation	
08abc	PLM	basement - boiler room	50lf	18" pipe TSI	
09a	PLM	basement - boiler room	2cy	ducting firebrick	
10a	PLM	basement - trash incinerator	2cy	firebrick	
11abc	PLM	basement -		wall/ceiling plaster	
12abc	PLM	basement -		pyrobar bricks	
13abc	PLM	basement - bridge room		aerocell TSI	
14abc	PLM	basement -		wall skimcoat	
15abc	PLM	1st floor -		black 9"x9"vft	

__✓__ Check for Stop on First Positive

RECEIVED
OCT 17 REC'D
BY: _____

S.F. - Square Feet L.F. - Linear Feet

Relinquished By: _____ Date: 10/17/24 Received By: Nicole Hogan Date: _____

CHAIN OF CUSTODY

Page 2 of 3 page(s)

DATE: 10/17/24 TAT: Immediate __ Same Day __ 24 Hr __ 48 Hr __ 72 Hr __ 96 Hr __ 5 Day __

CLIENT: City of Joplin JOB NAME: old Freeman Hospital JOB NUMBER: _____

Sample ID	Analysis	Material Location	Approximate Quantity	Material Description	Condition
16 abc	PLM	1st floor - hallway		drywall system	
17 abc	PLM	1st floor -		9x9 vft red	
18 abc	PLM	1st floor - entrance		9x9 vft white	
19 abc	PLM	1st floor -	100sf	2x2 suspended ceiling tile	
20 a	PLM	1st floor - bathroom	20sf	wood patterned vinyl floor sheeting	
21 a	PLM	1st floor -	175sf	1x1 ceiling tile	
22 abc	PLM	1st floor -		plaster wall/ceiling	
23 abc	PLM	2nd floor -		plaster wall/ceiling	
24 a	PLM	2nd floor -		9x9 vft white	
25 a	PLM	2nd floor -		9x9 vft red	
26 a	PLM	2nd floor -		9x9 vft black	
27 abc	PLM	2nd floor -		black TSI sealant	
28 a	PLM	3rd floor -		9x9 vft red	
29 a	PLM	3rd floor -		9x9 vft white	
30 a	PLM	3rd floor -		9x9 vft black	

✓ Check for Stop on First Positive

S.F. - Square Feet L.F. - Linear Feet

Relinquished By: _____ Date: 10/17/24 Received By: Nicole Hogan Date: _____

RECEIVED
OCT 17 REC'D
BY: _____

CHAIN OF CUSTODY

Page 3 of 3 page(s)

DATE: 10/17/24 TAT: Immediate __ Same Day __ 24 Hr __ 48 Hr __ 72 Hr __ 96 Hr __ 5 Day __

CLIENT: City of Joplin JOB NAME: Old Freeman Hospital JOB NUMBER: _____

Sample ID	Analysis	Material Location	Approximate Quantity	Material Description	Condition
31 a	PLM	3rd floor-		plaster ceiling	
32 a	PLM	4th floor-		9x9 vft red	
33 a	PLM	4th floor-		9x9 vft black	
34 a	PLM	4th floor-		9x9 vft white	
35 a	PLM	4th floor-		wall plaster	
36 a	PLM	4th floor-		drywall system	
37 abc	PLM	5th floor-		Floor tile mastic (only)	
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				

✓ Check for Stop on First Positive

RECEIVED

OCT 17 RECD

S.F. - Square Feet L.F. - Linear Feet

Relinquished By: _____ Date: 10/17/24 Received By: Nicole Hogan Date: _____

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512409	1a	None Detected	Cellulose, Synthetic Fibers	Black Tar Binders
512410	1b	None Detected	Cellulose	Black Tar Binders
512411	1c	5-10% Chrysotile		Black Tar Binders
512412	2a	None Detected		Binders, Aggregate
512413	2b	None Detected		Binders, Aggregate
512414	2c	None Detected		Binders, Aggregate
512415	3a	None Detected		Binders, Aggregate
512416	3b	None Detected		Binders, Aggregate
512417	3c	None Detected		Binders, Aggregate
512418	4a	5-10% Chrysotile		Binders, Vinyl, Paint
512419	5a	None Detected		Binders, Aggregate
512420	5b	None Detected		Binders, Aggregate
512421	5c	None Detected		Binders, Aggregate
512422	6a	20-25% Chrysotile 5-10% Amosite		Binders, Polyfoam

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

952 ANGLUM ROAD HAZELWOOD, MISSOURI 63042 TEL/FAX (314) 838-5052

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512423	7a	65-70% Chrysotile	Antigorite	Binders
512424	8a	45-50% Chrysotile 5-10% Chrysotile		Binders, Polyfoam
512425	9a	None Detected		Binders, Aggregate
512426	10a	None Detected		Binders, Aggregate
512427	11a	None Detected	Cellulose	Binders, Polyfoam
512428	11b	None Detected	Cellulose	Binders, Polyfoam, Aggregate
512429	11c	None Detected	Cellulose	Binders, Polyfoam
512430	12a	None Detected	Cellulose	Binders, Polyfoam
512431	12b	None Detected	Cellulose	Binders, Polyfoam
512432	12c	None Detected	Cellulose	Binders, Polyfoam
512433	13a	75-80% Chrysotile	Antigorite	Binders
512434	14a	None Detected		Binders, Polyfoam, Aggregate
512435	14b	None Detected		Binders, Polyfoam, Aggregate
512436	14c	None Detected		Binders, Polyfoam, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512437	15a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512438	16a	None Detected	Cellulose	Binders, Polyfoam, Mica
512439	16b	None Detected	Cellulose	Binders, Polyfoam, Mica
512440	16c	None Detected	Cellulose	Binders, Polyfoam, Mica
512441	17a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512442	18a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512443	19a	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
512444	19b	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
512445	19c	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512446	20a	None Detected		Binders, Vinyl
	Backing	None Detected	Cellulose, Glass Wool	Binders
		None Detected in Tan Mastic		Binders
		5-10% Chrysotile in Black Mastic		Black Tar Binders
512447	21a	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
		None Detected in Mastic		Binders
512448	22a	None Detected	Cellulose	Binders, Polyfoam
512449	22b	None Detected	Cellulose	Binders, Polyfoam
512450	22c	None Detected	Cellulose	Binders, Polyfoam
512451	23a	None Detected		Binders, Polyfoam, Aggregate
512452	23b	None Detected		Binders, Polyfoam, Aggregate, Paint, Mica
512453	23c	None Detected		Binders, Polyfoam, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512454	24a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512455	25a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512456	26a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512457	27a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
512458	28a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512459	29a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512460	30a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512461	31a	None Detected	Horse Hair	Binders, Polyfoam, Aggregate
512462	32a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512463	33a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512464	34a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512465	35a	None Detected		Binders, Polyfoam, Aggregate, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

952 ANGLUM ROAD HAZELWOOD, MISSOURI 63042 TEL/FAX (314) 838-5052

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512466	36a	None Detected	Cellulose	Binders, Polyfoam
512467	37a	5-10% Chrysotile		Black Tar Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

Nicole Hogan

Nikki Hogan
Laboratory Co-Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.

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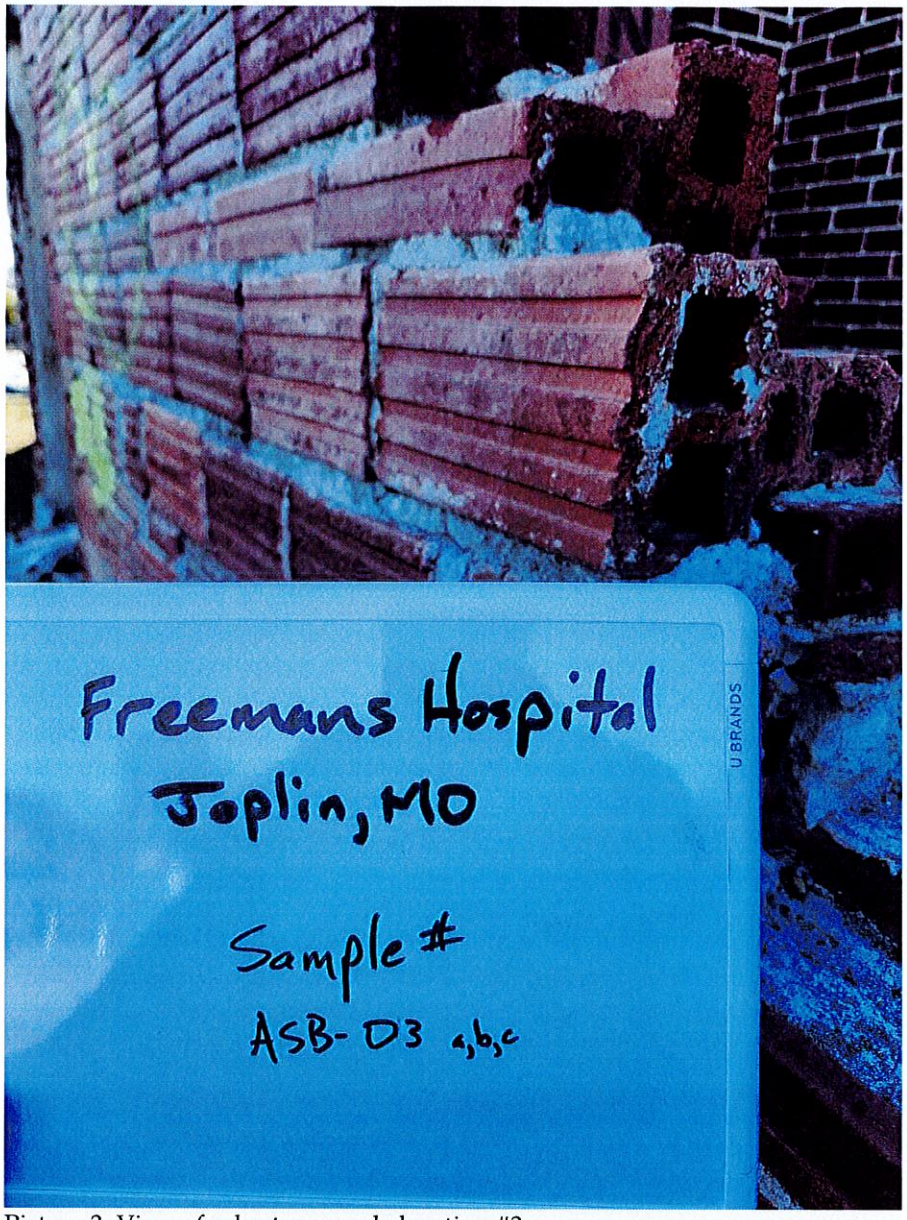
Photographic Documentation



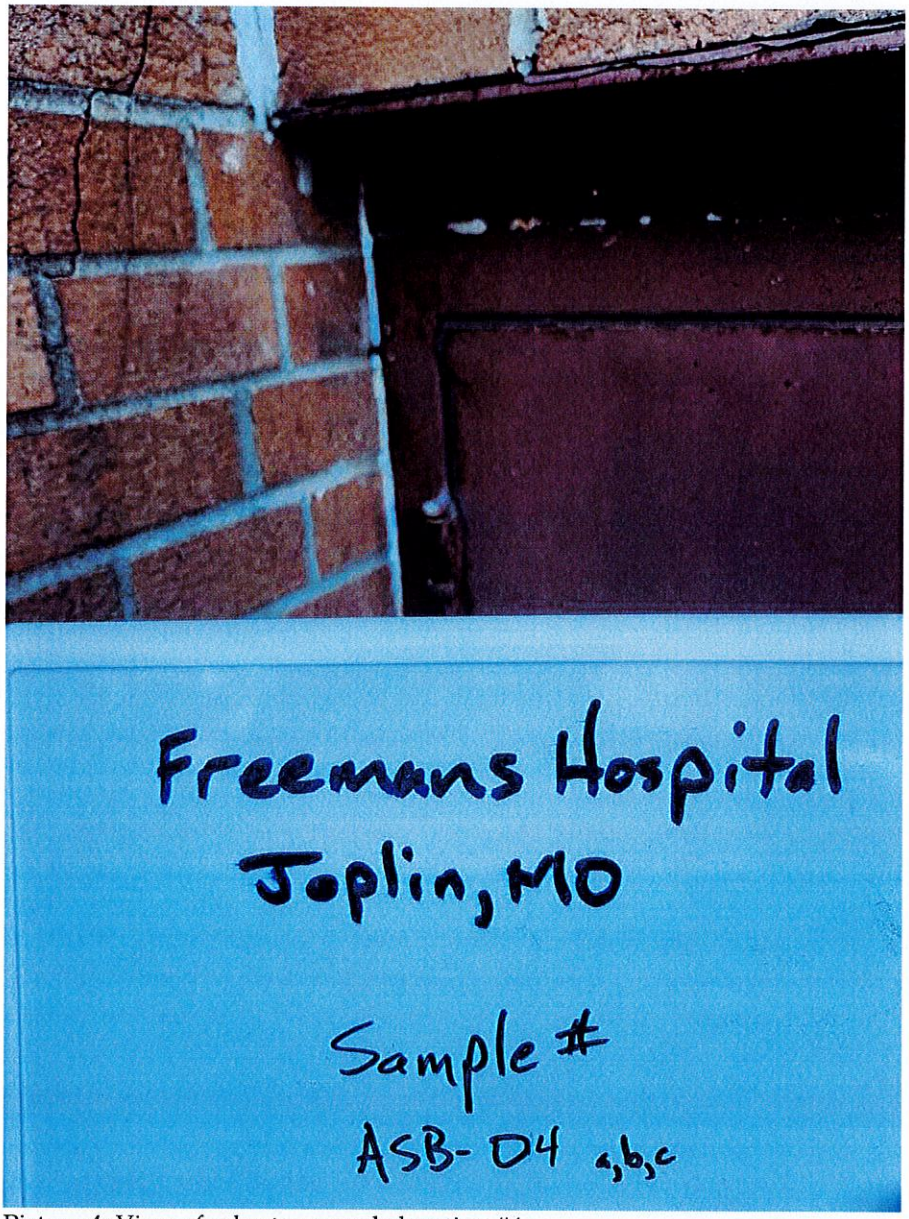
Picture 1: View of asbestos sample location #1.



Picture 2: View of asbestos sample location #2.



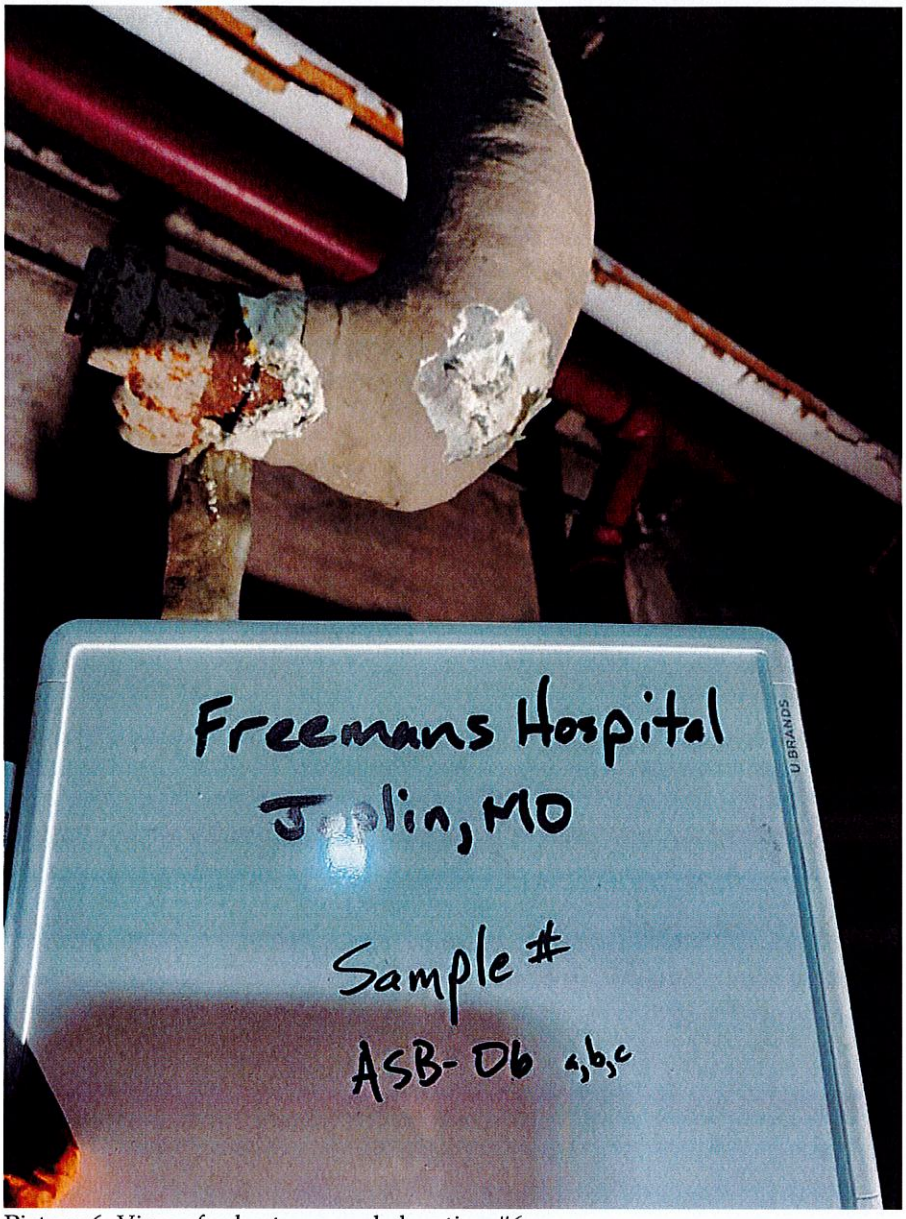
Picture 3: View of asbestos sample location #3.



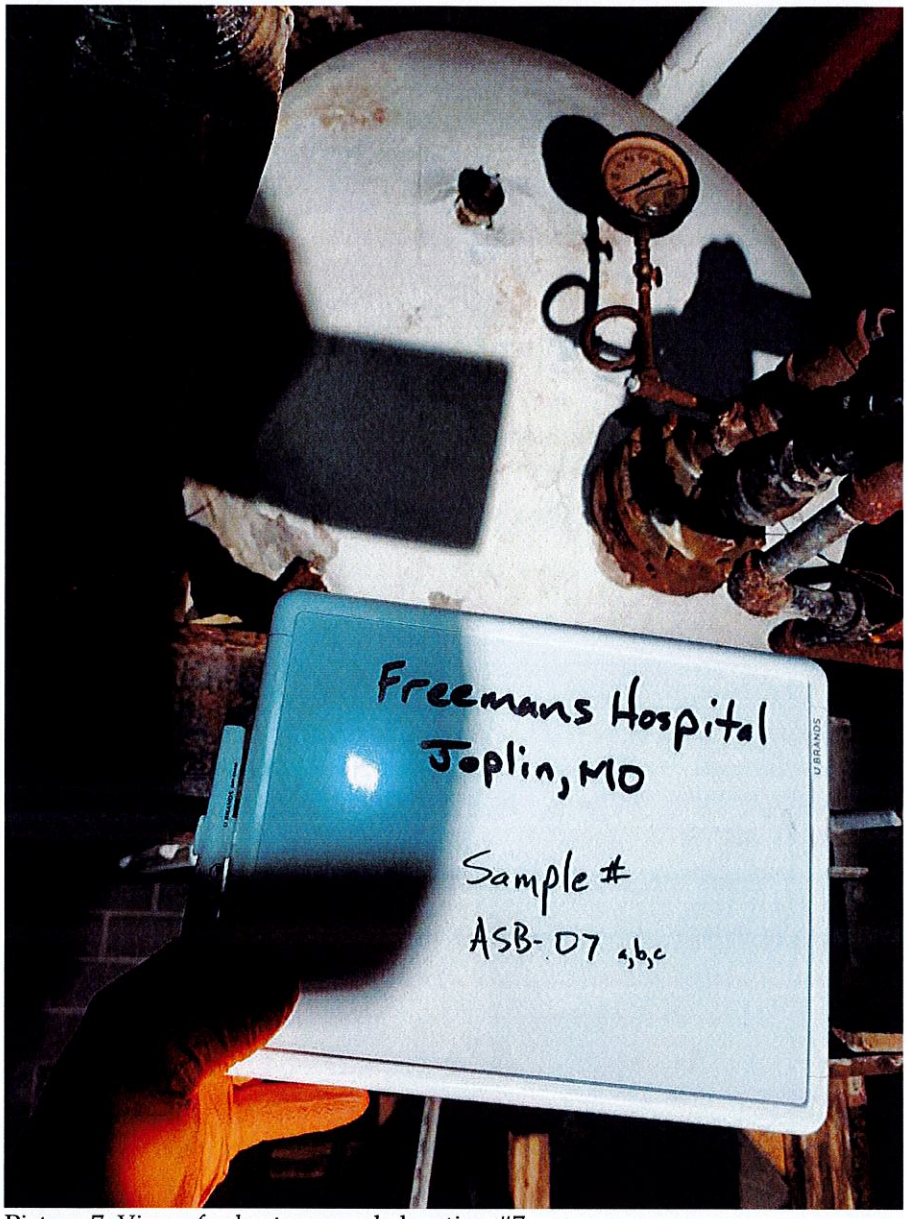
Picture 4: View of asbestos sample location #4.



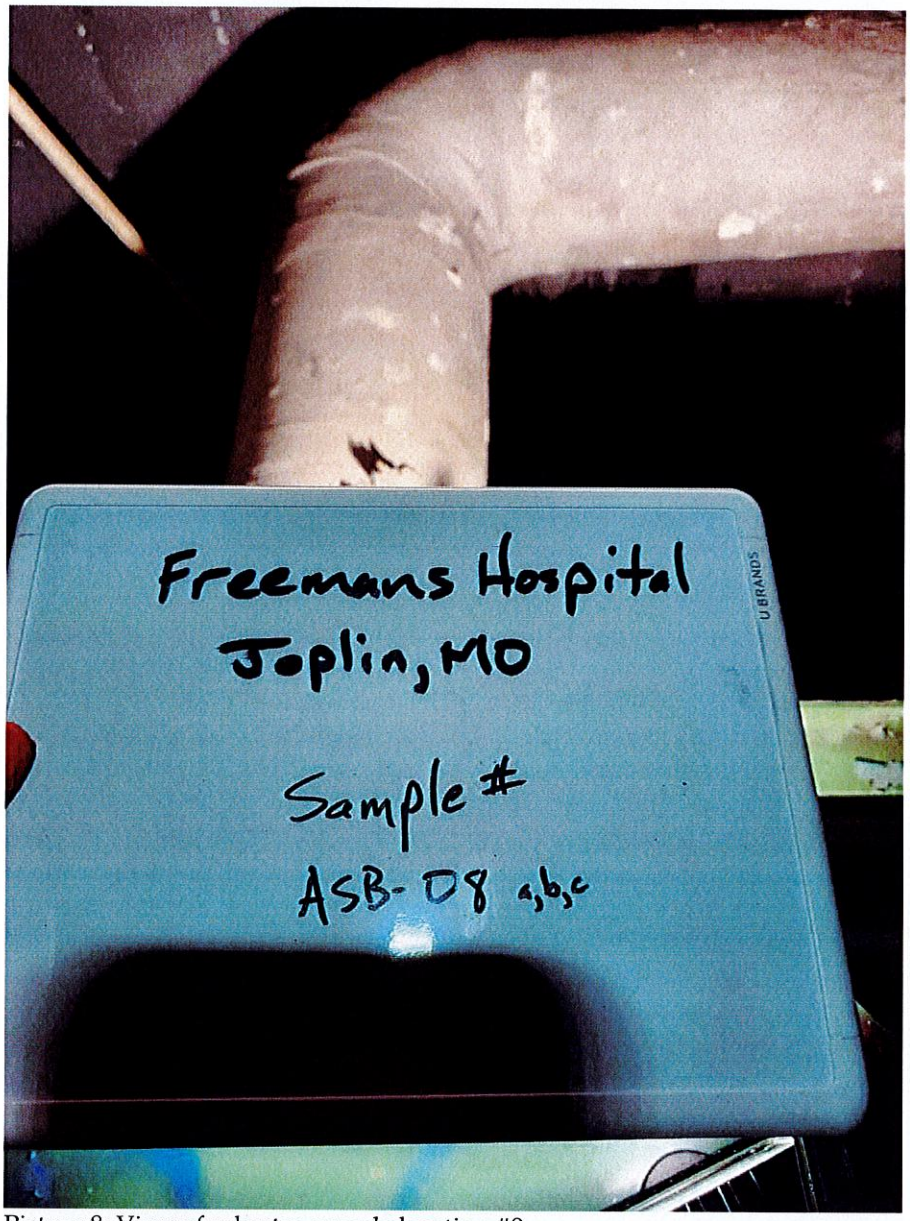
Picture 5: View of asbestos sample location #5.



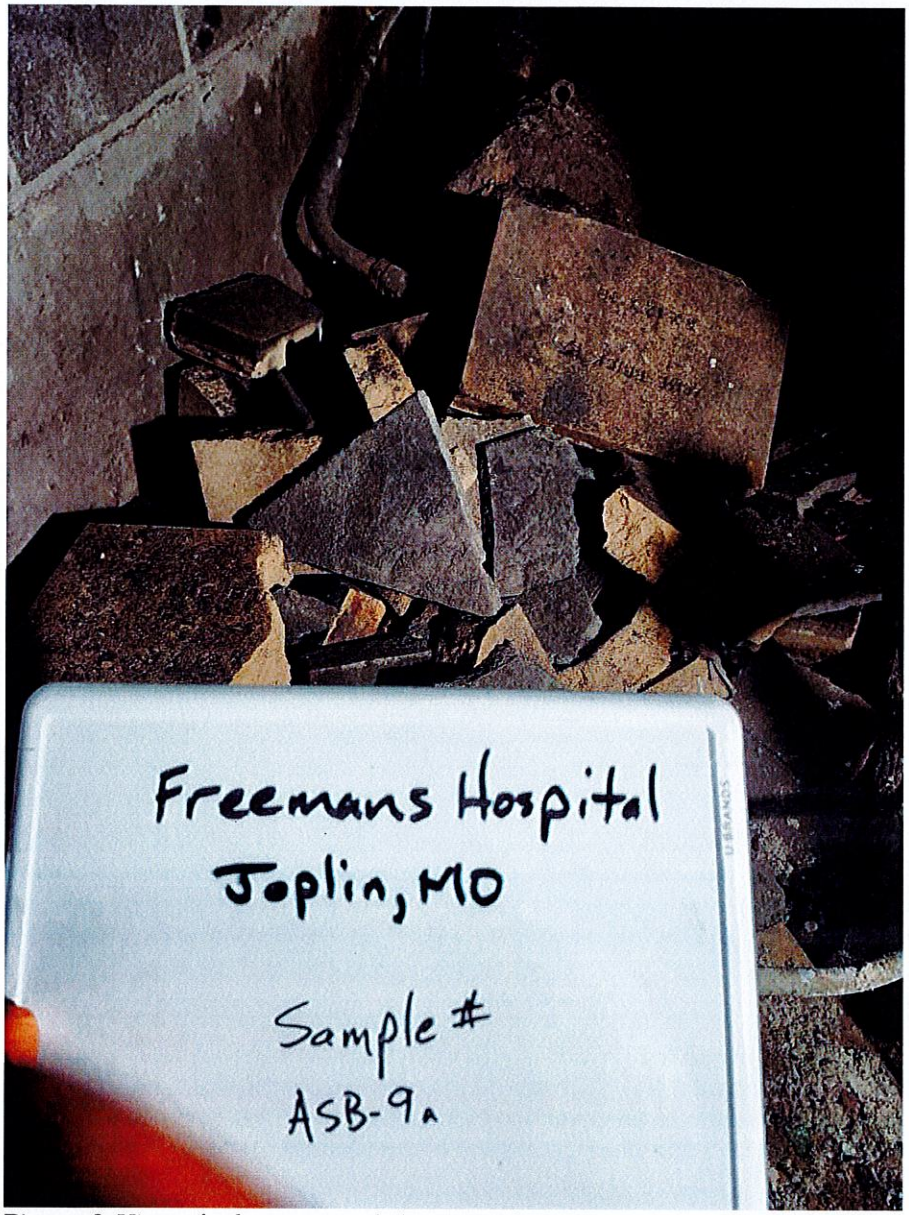
Picture 6: View of asbestos sample location #6.



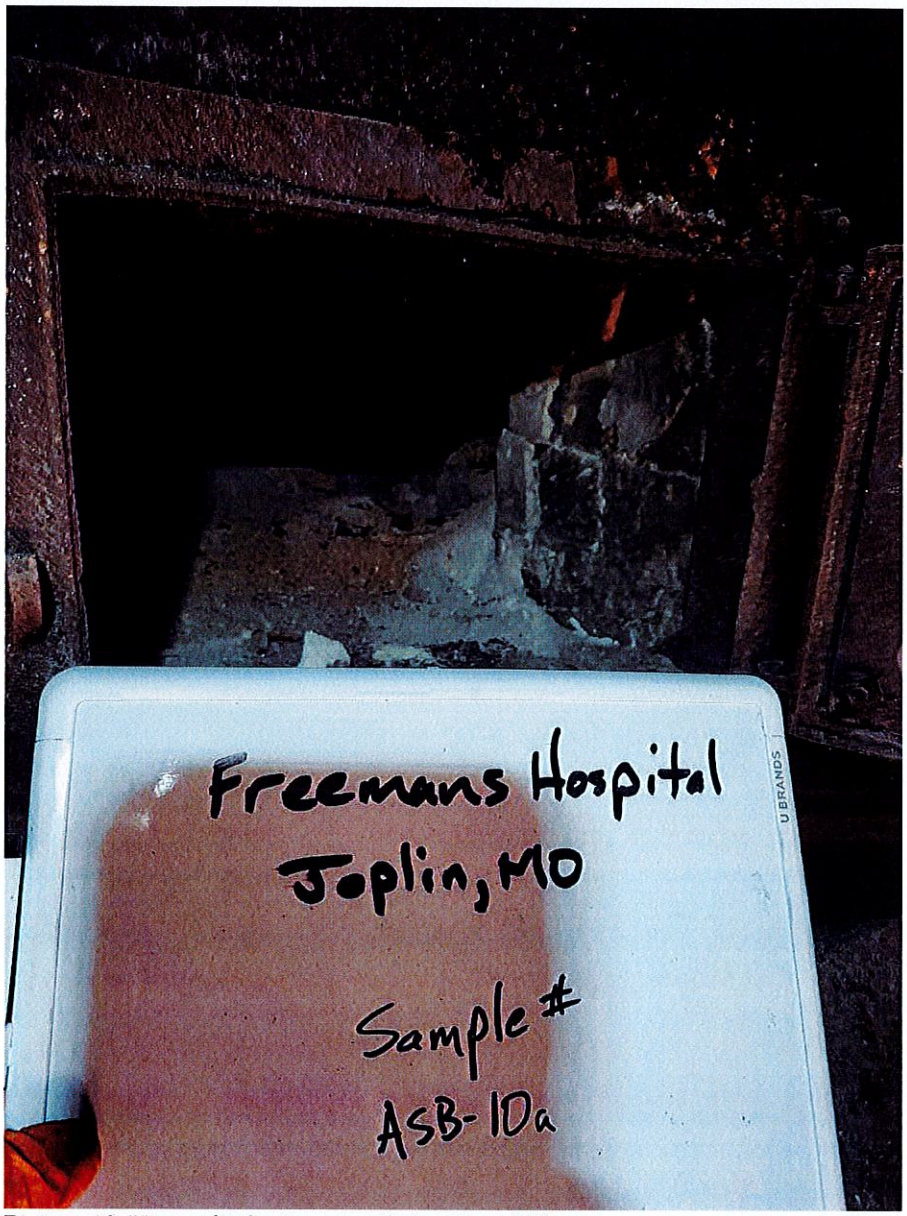
Picture 7: View of asbestos sample location #7.



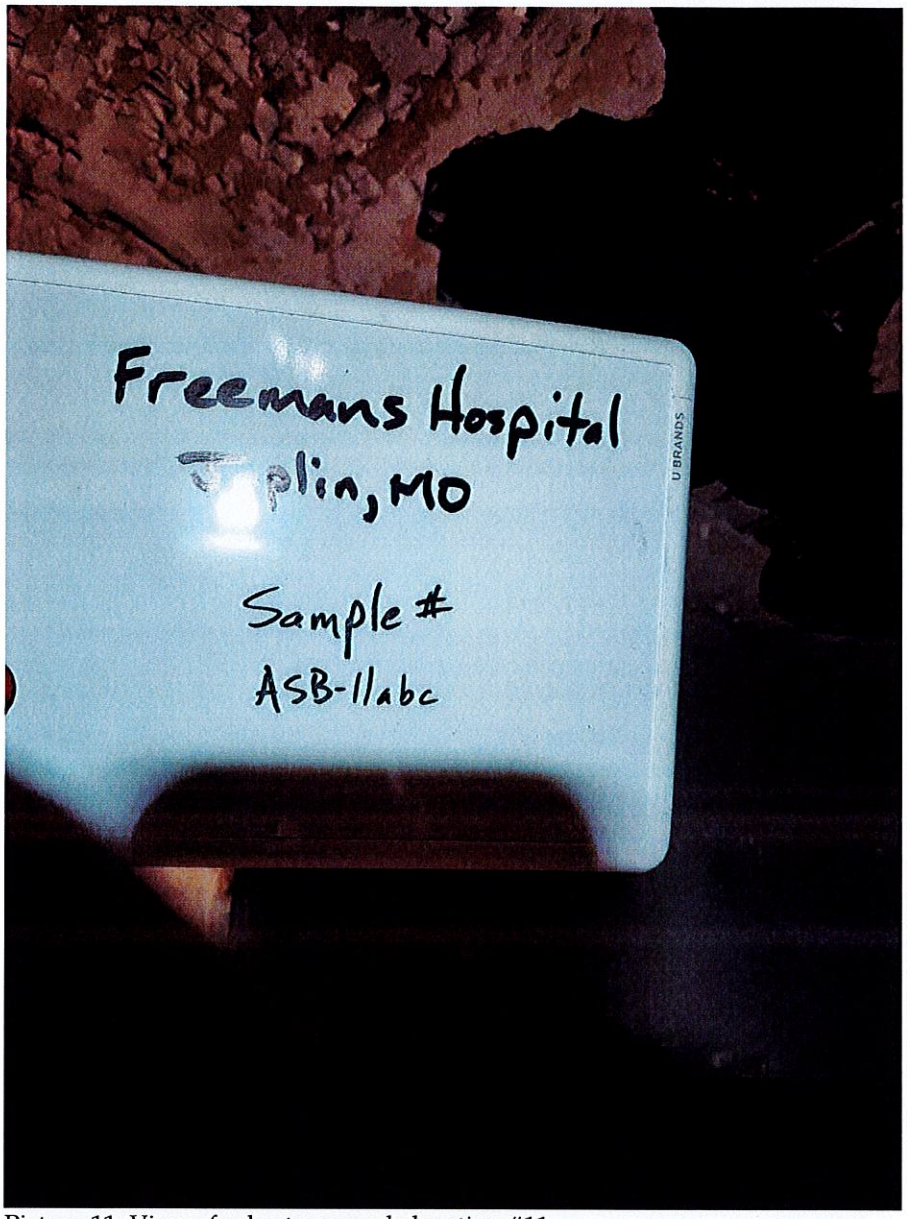
Picture 8: View of asbestos sample location #8.



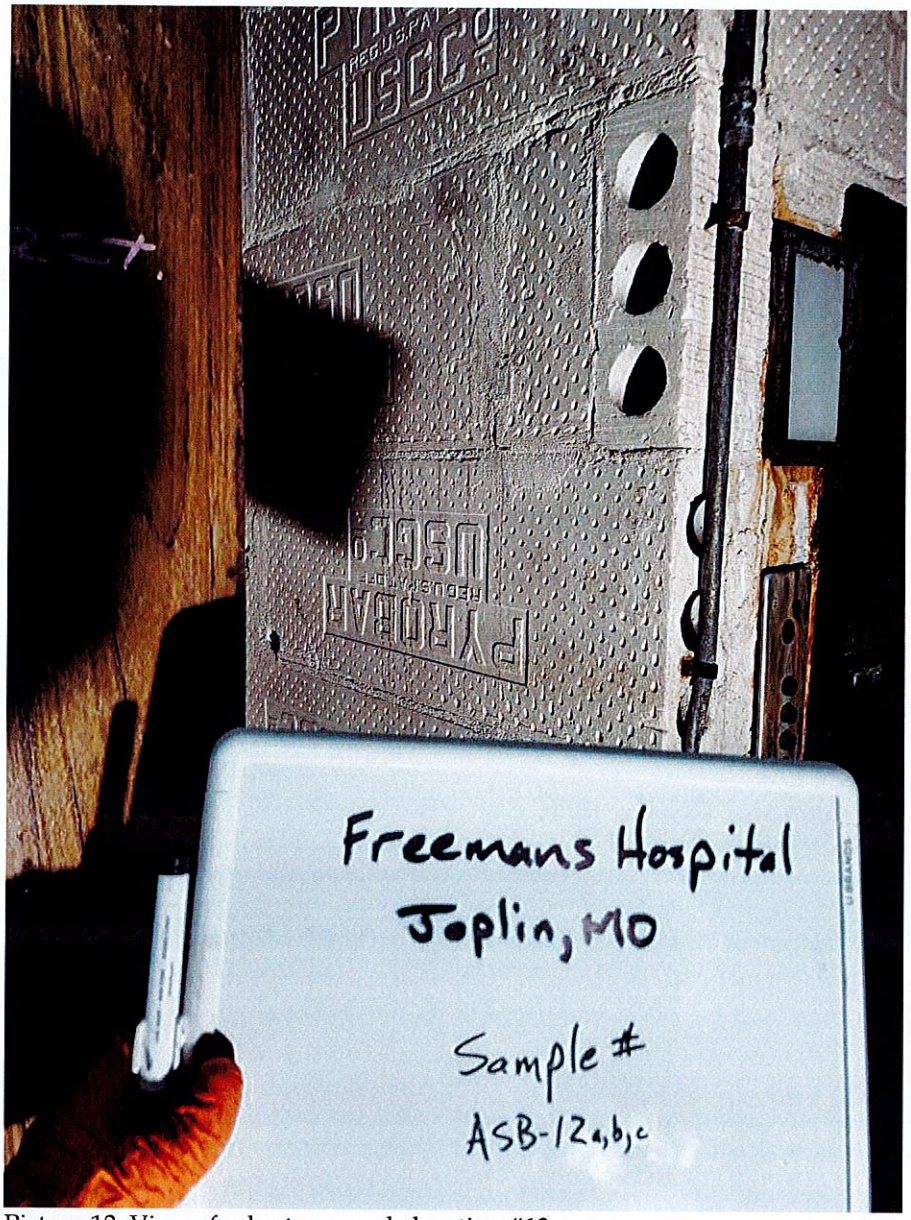
Picture 9: View of asbestos sample location #9.



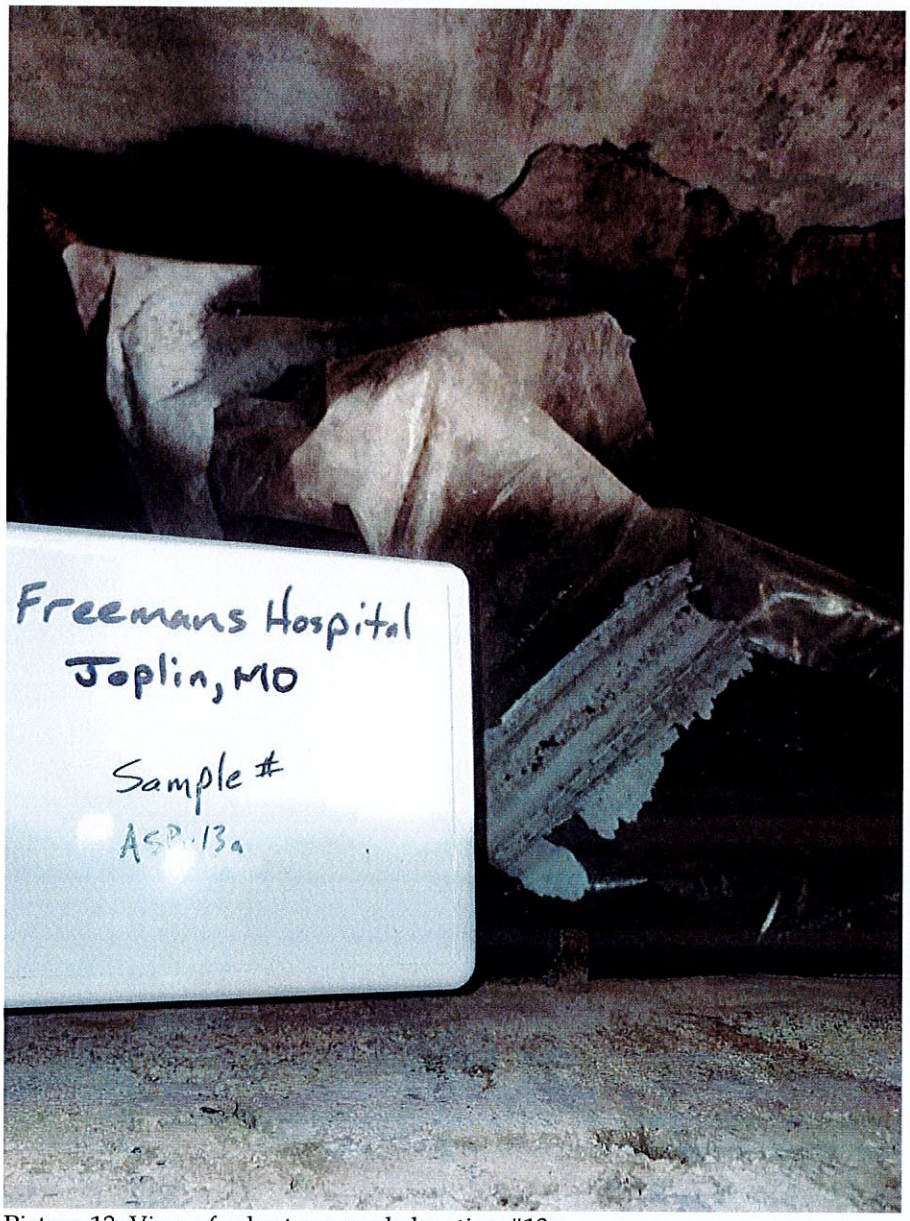
Picture 10: View of asbestos sample location #10.



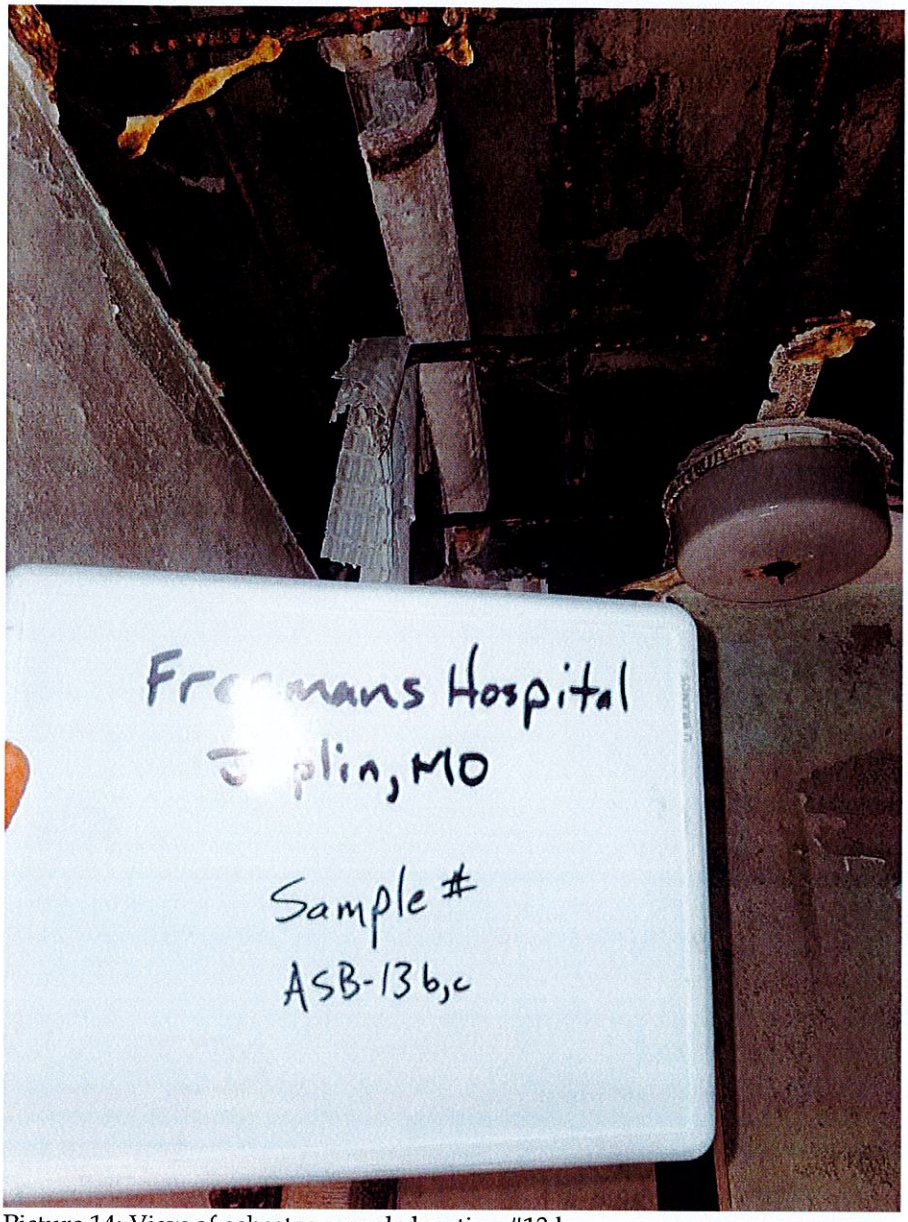
Picture 11: View of asbestos sample location #11.



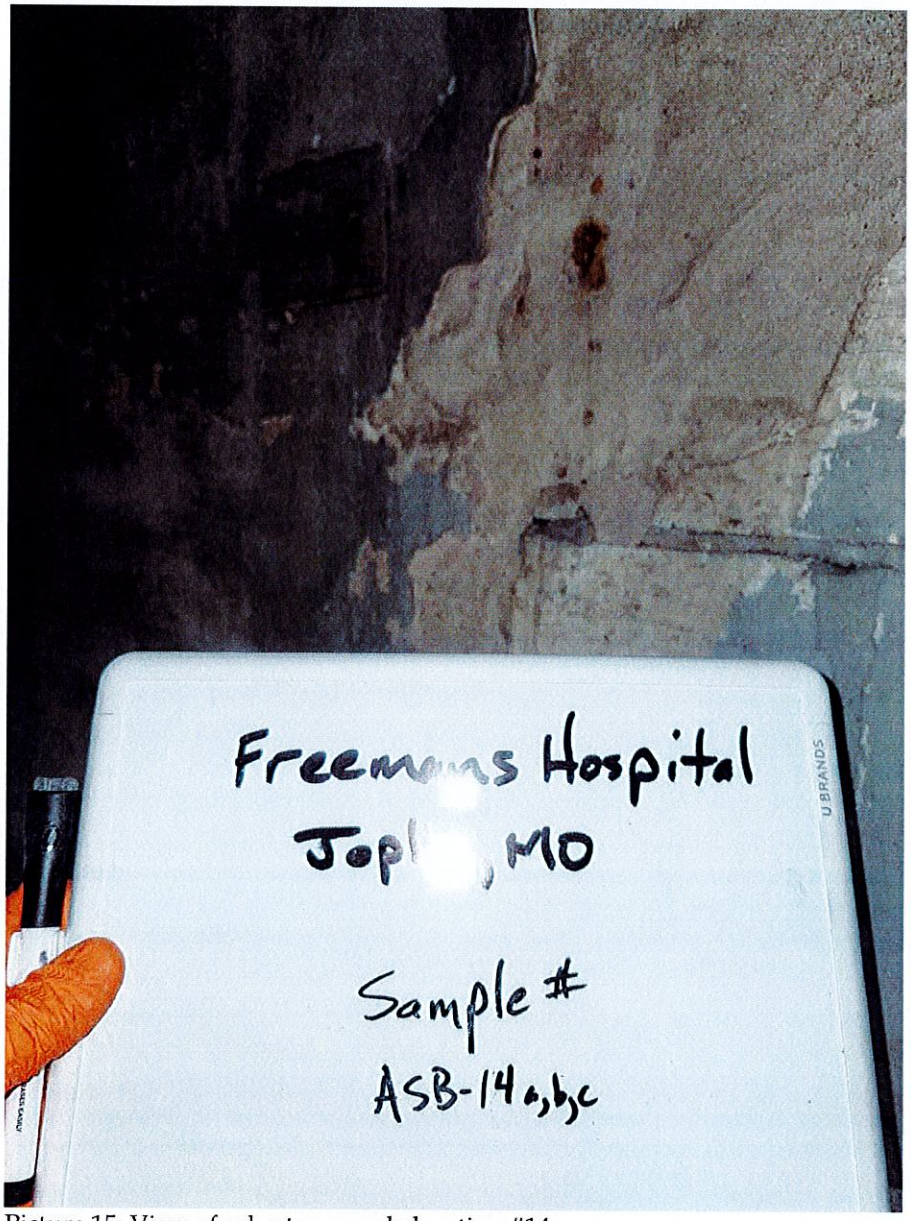
Picture 12: View of asbestos sample location #12.



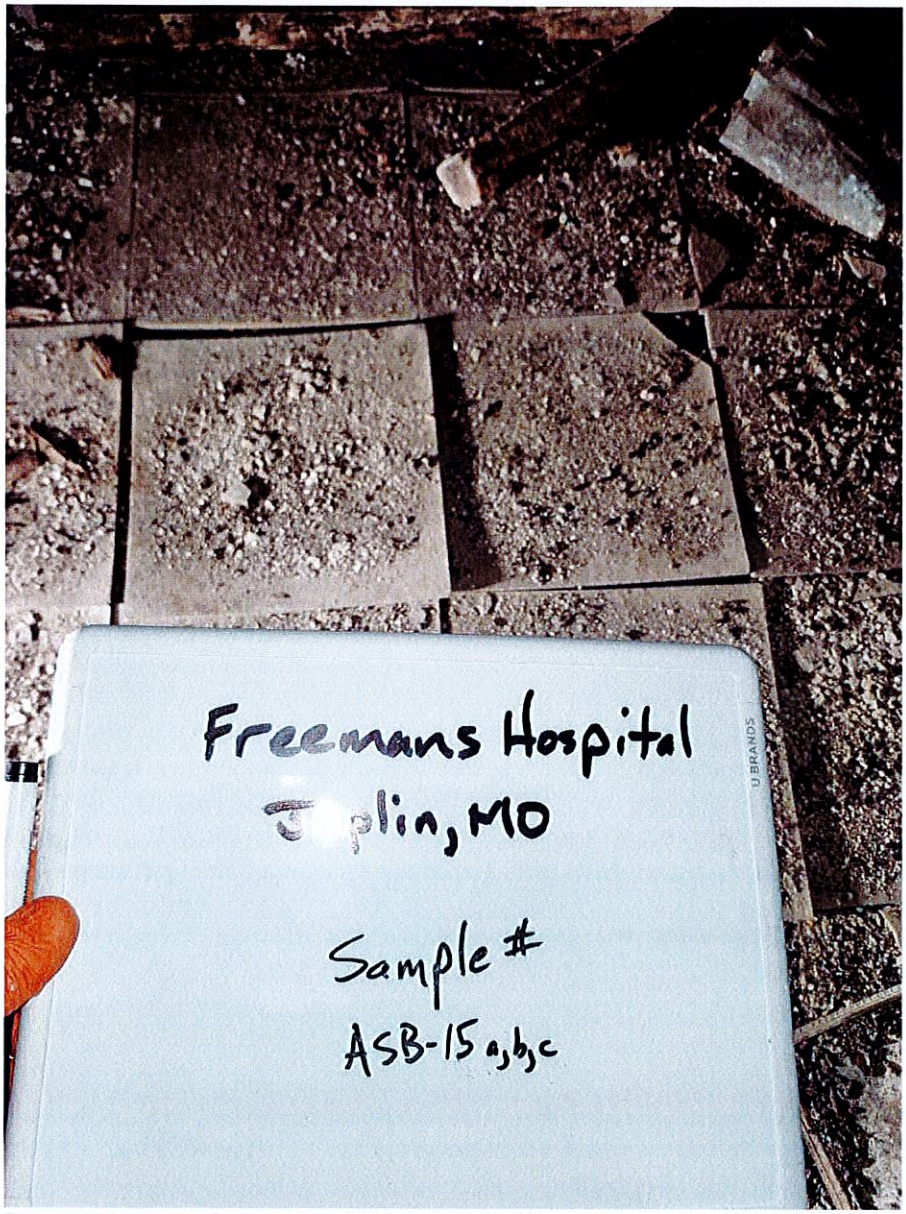
Picture 13: View of asbestos sample location #13a.



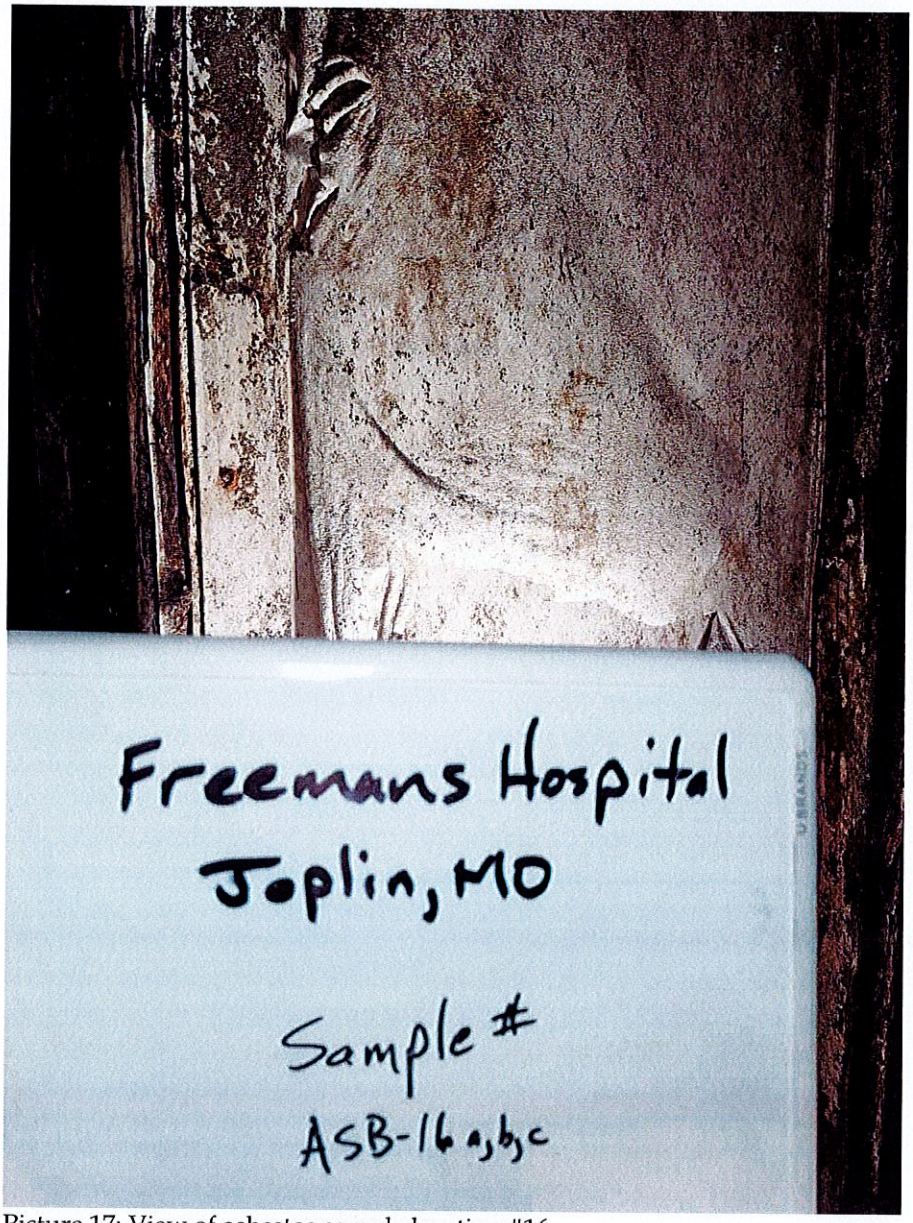
Picture 14: View of asbestos sample location #13 b, c.



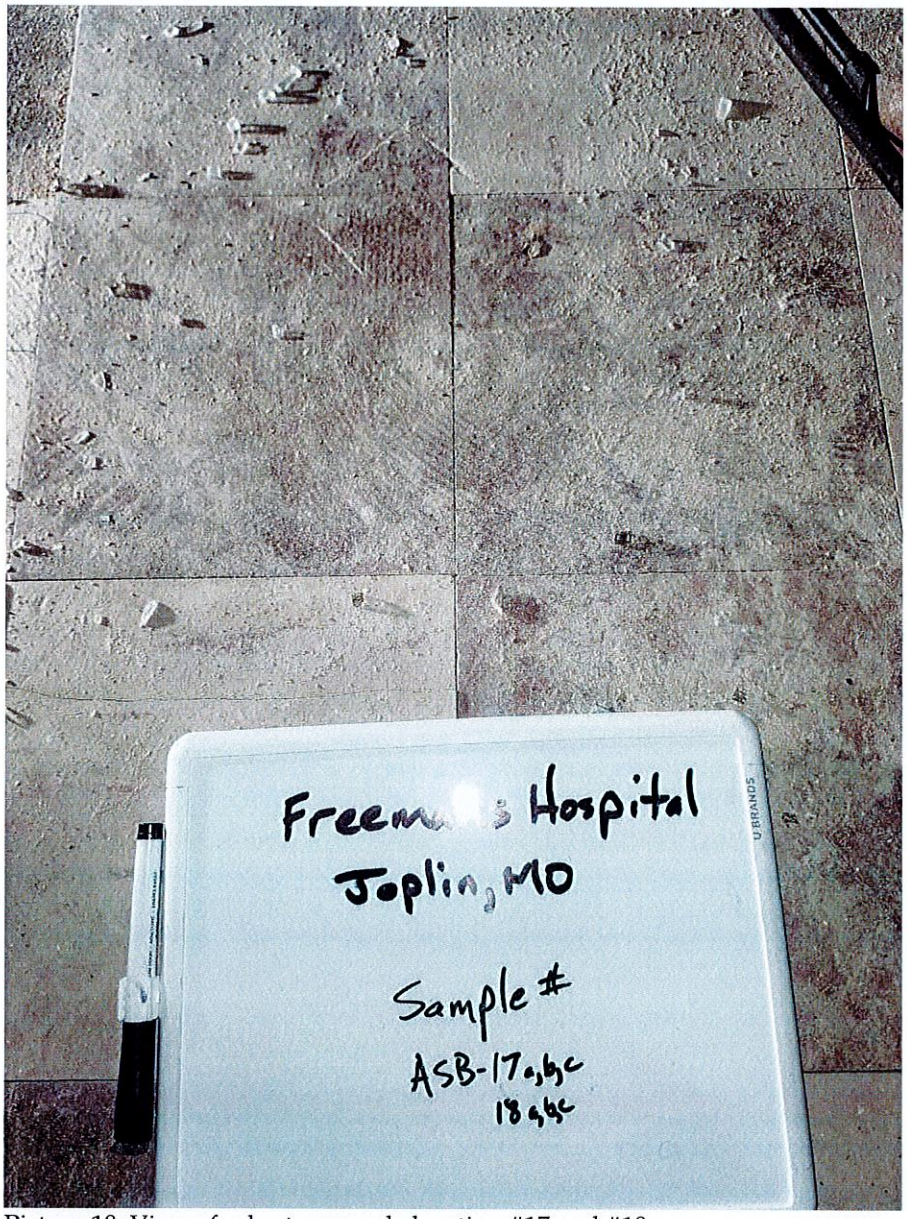
Picture 15: View of asbestos sample location #14.



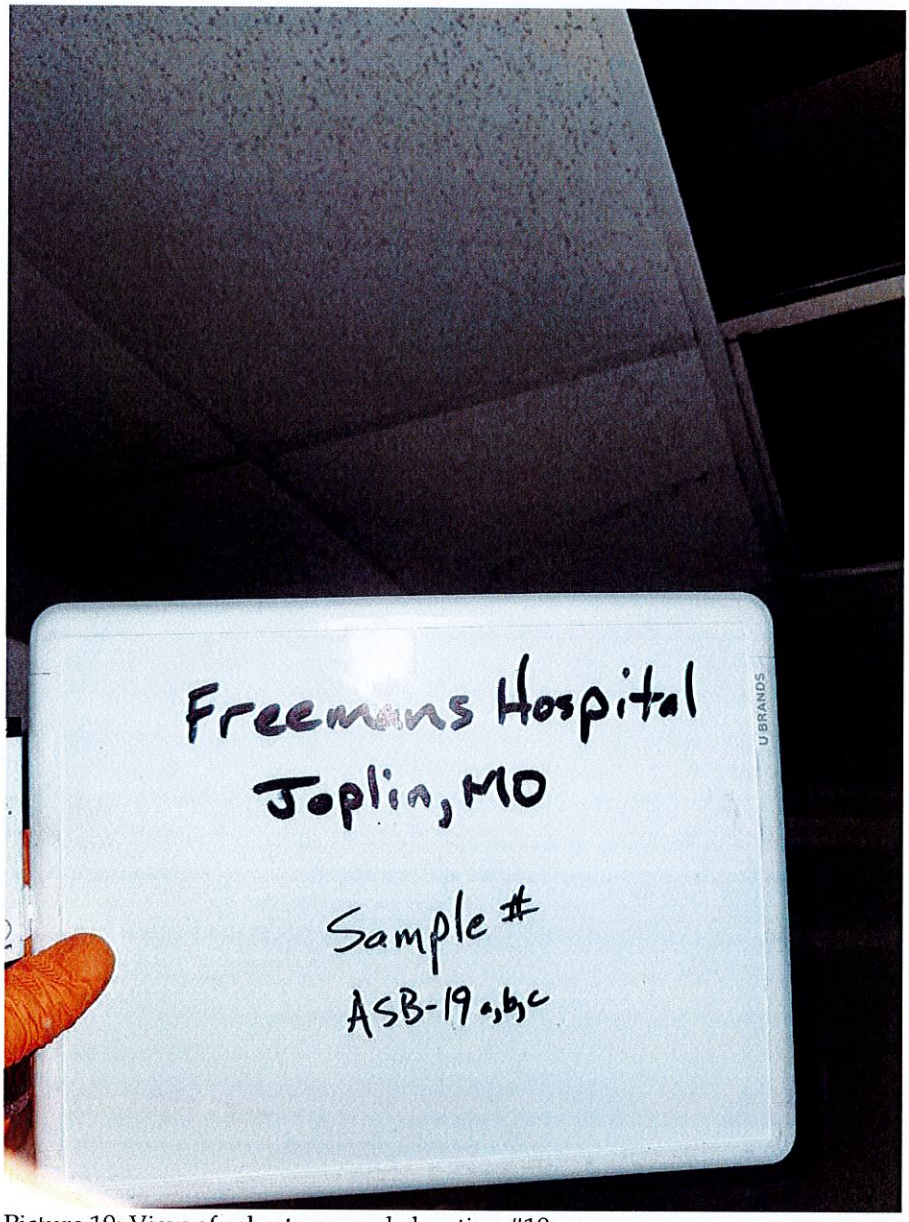
Picture 16: View of asbestos sample location #15.



Picture 17: View of asbestos sample location #16.



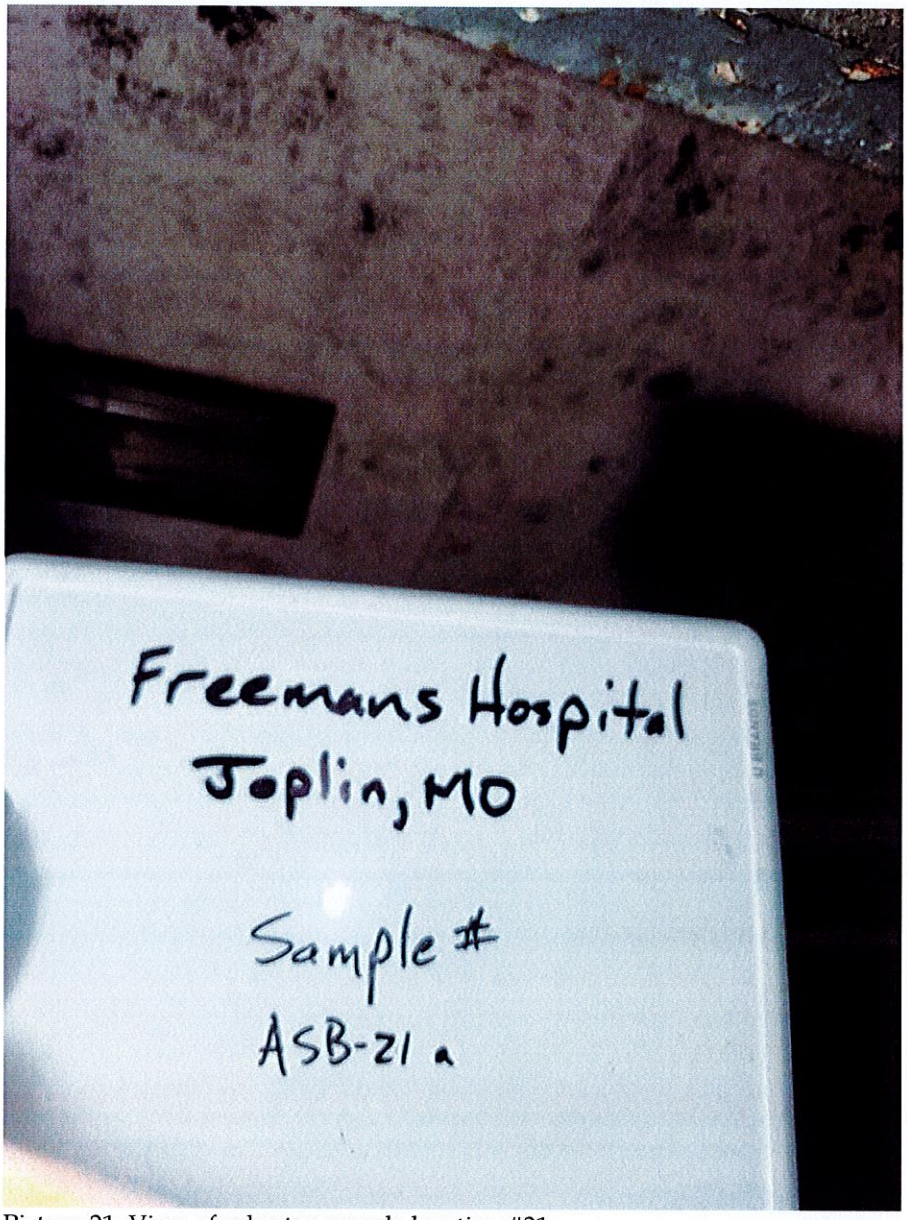
Picture 18: View of asbestos sample location #17 and #18.



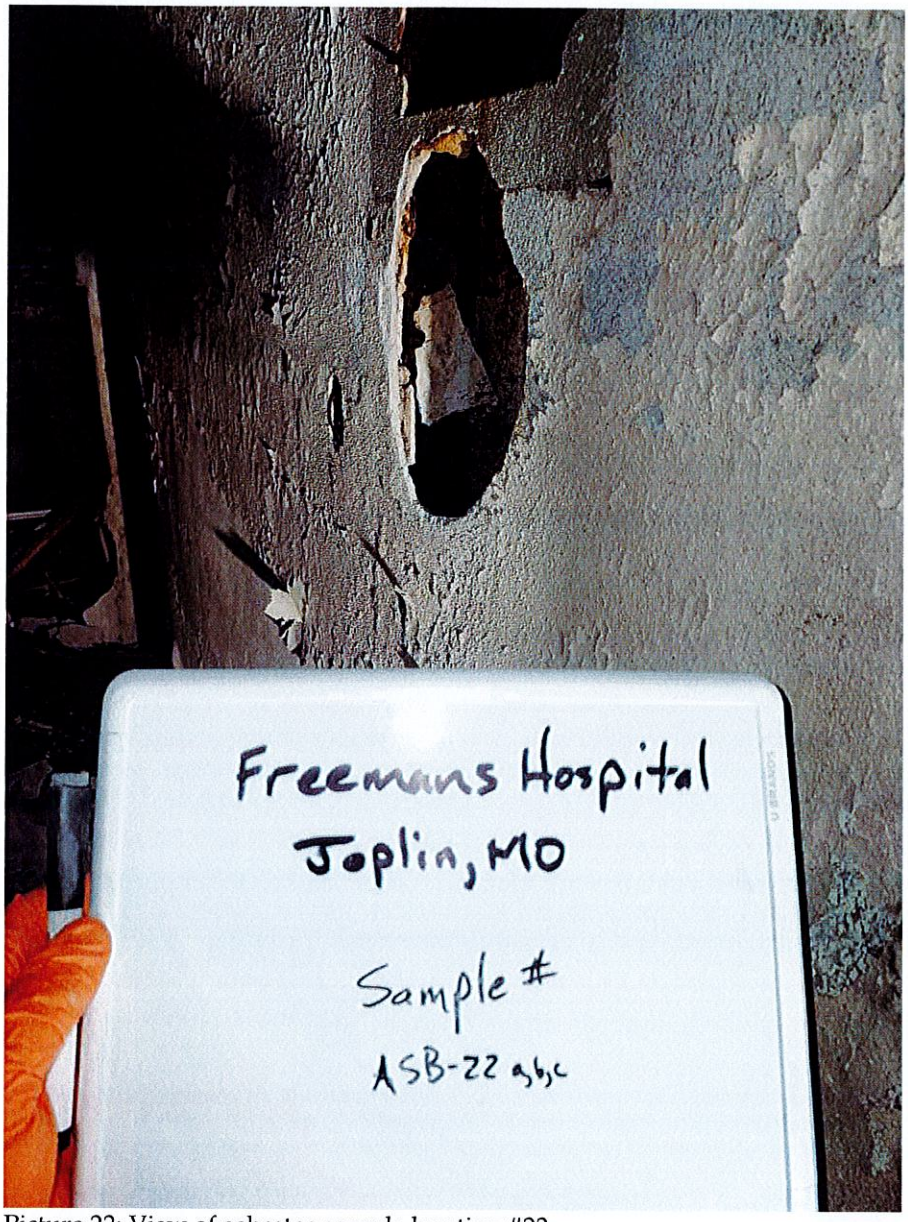
Picture 19: View of asbestos sample location #19.



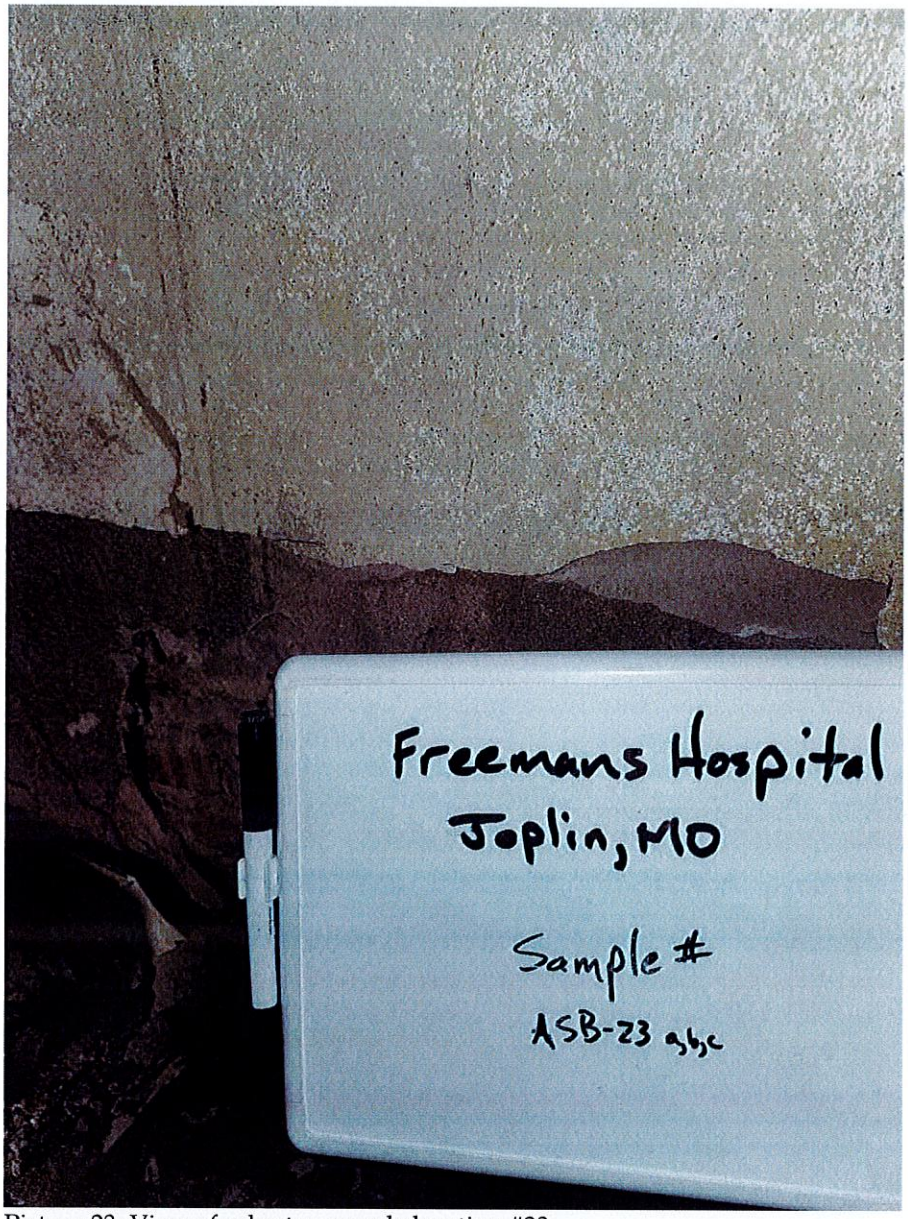
Picture 20: View of asbestos sample location #20.



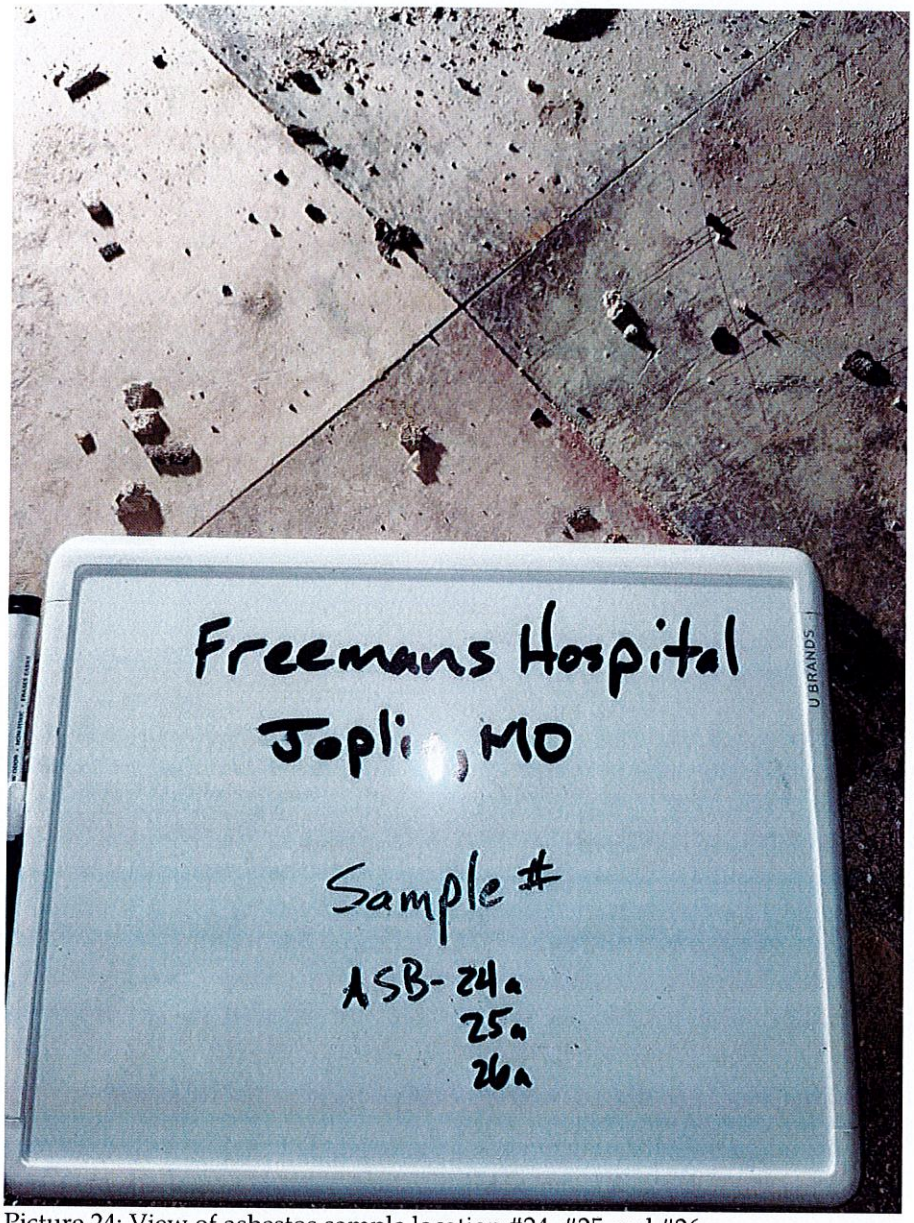
Picture 21: View of asbestos sample location #21.



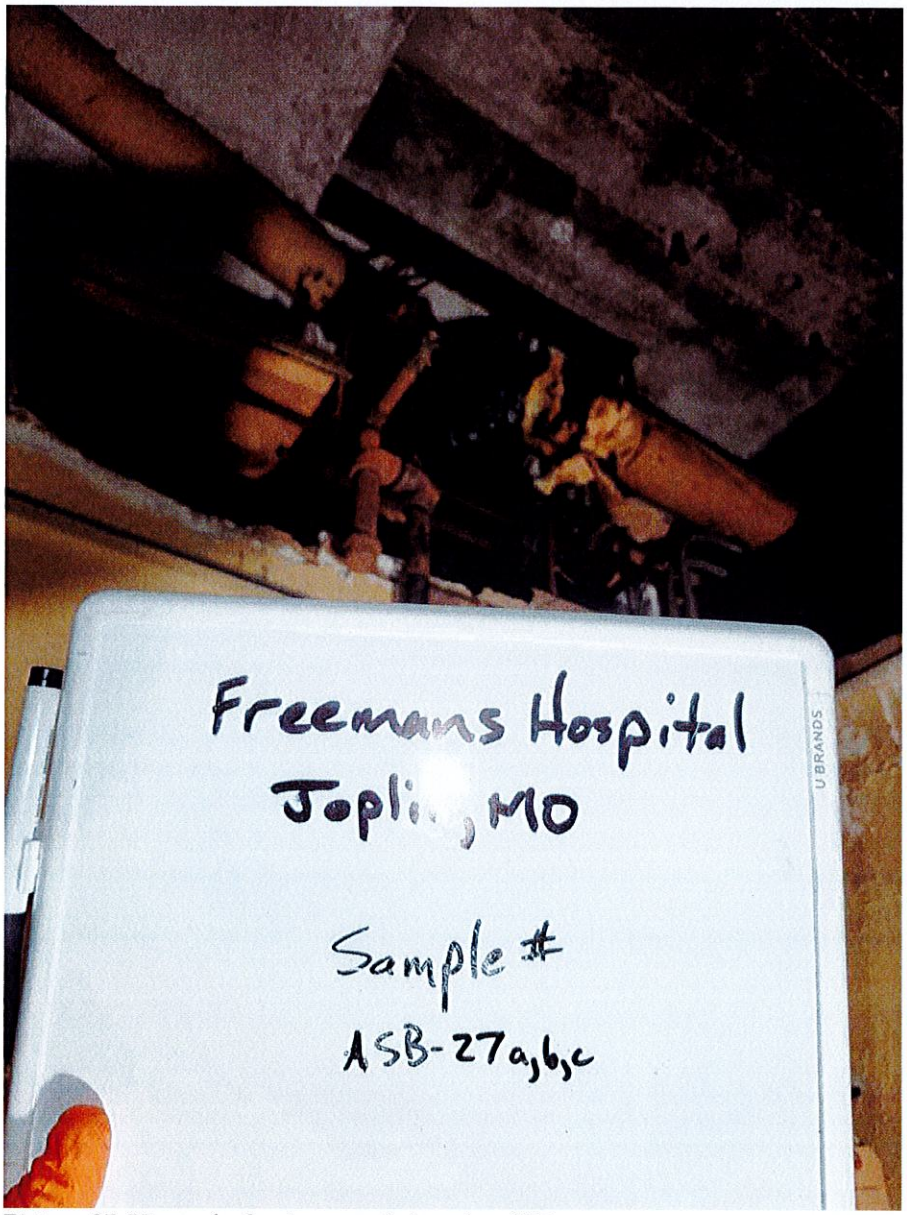
Picture 22: View of asbestos sample location #22.



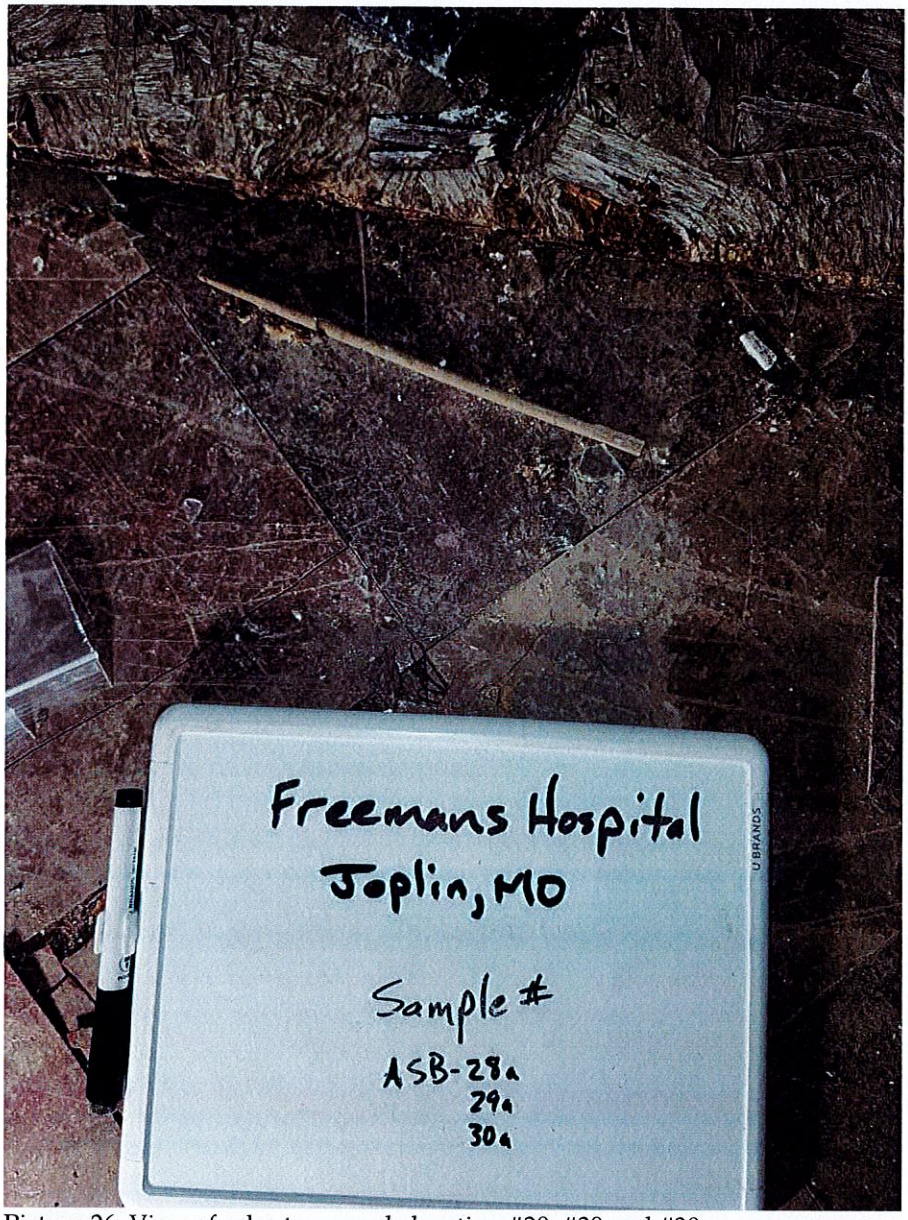
Picture 23: View of asbestos sample location #23.



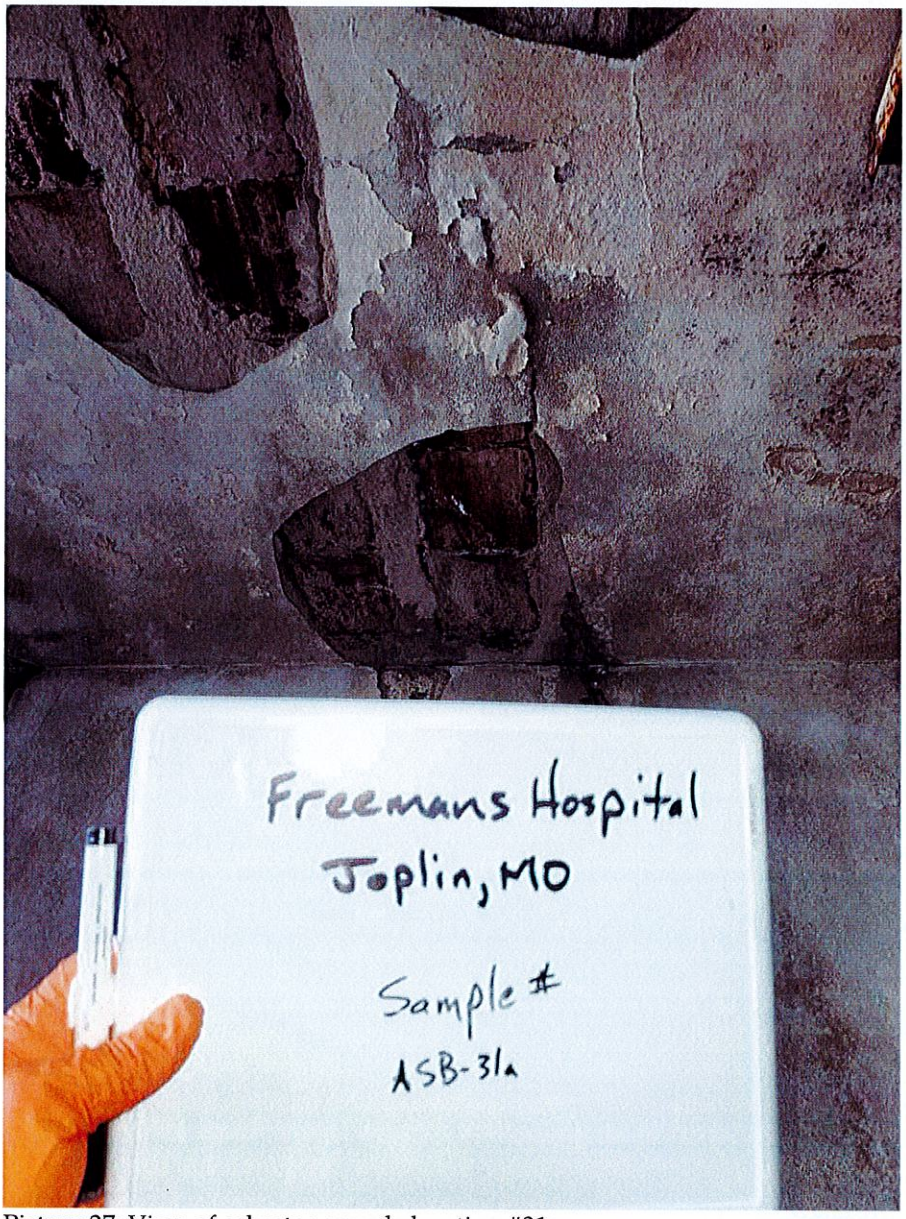
Picture 24: View of asbestos sample location #24, #25 and #26.



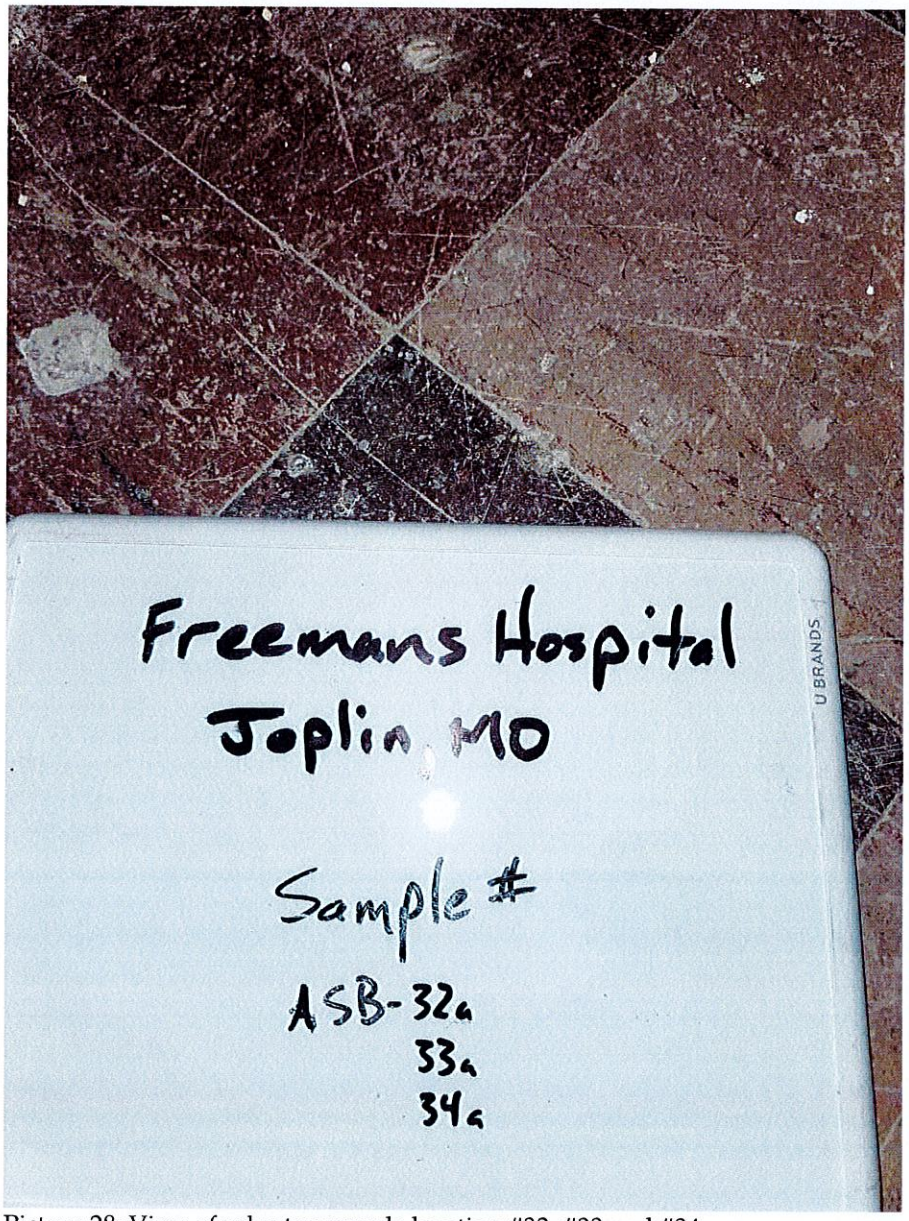
Picture 25: View of asbestos sample location #27.



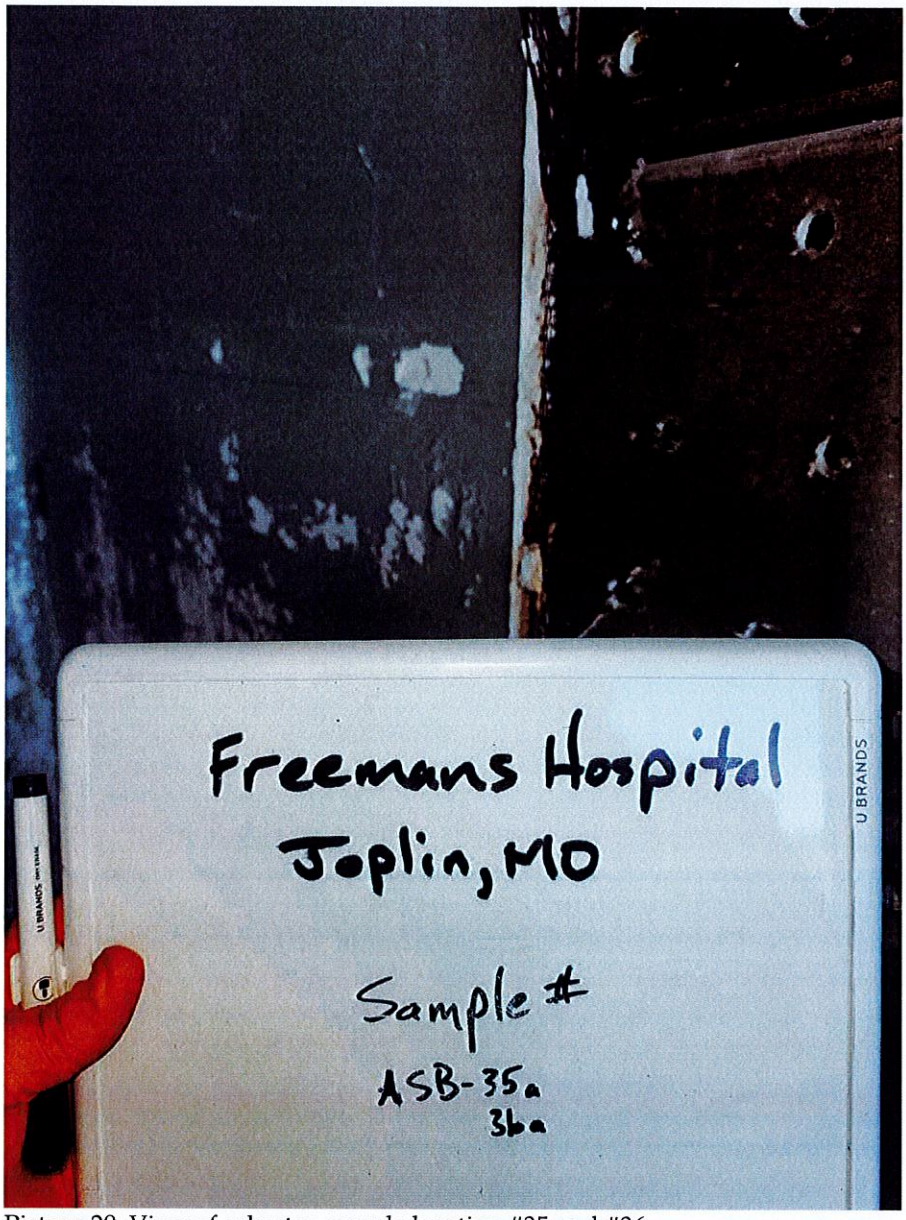
Picture 26: View of asbestos sample location #28, #29 and #30.



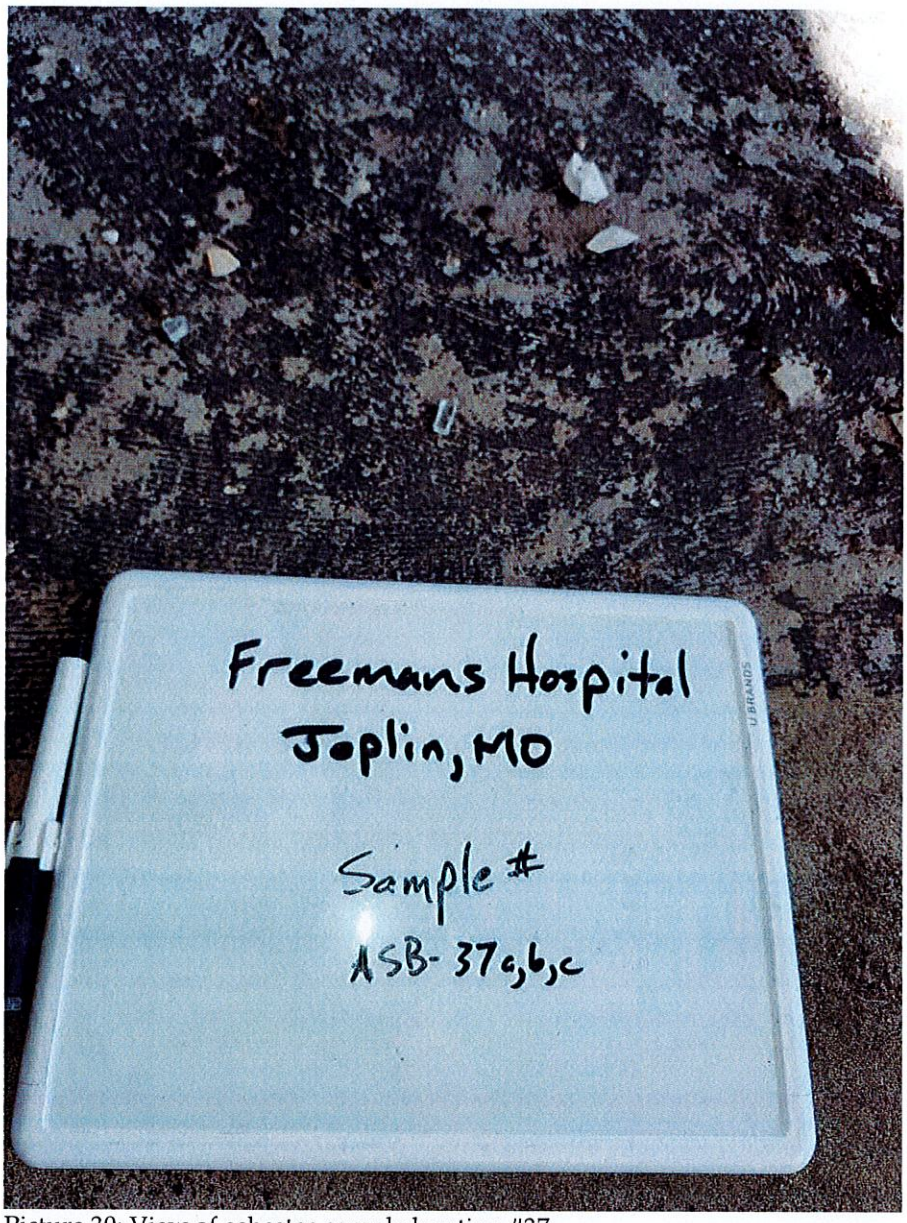
Picture 27: View of asbestos sample location #31.



Picture 28: View of asbestos sample location #32, #33 and #34.



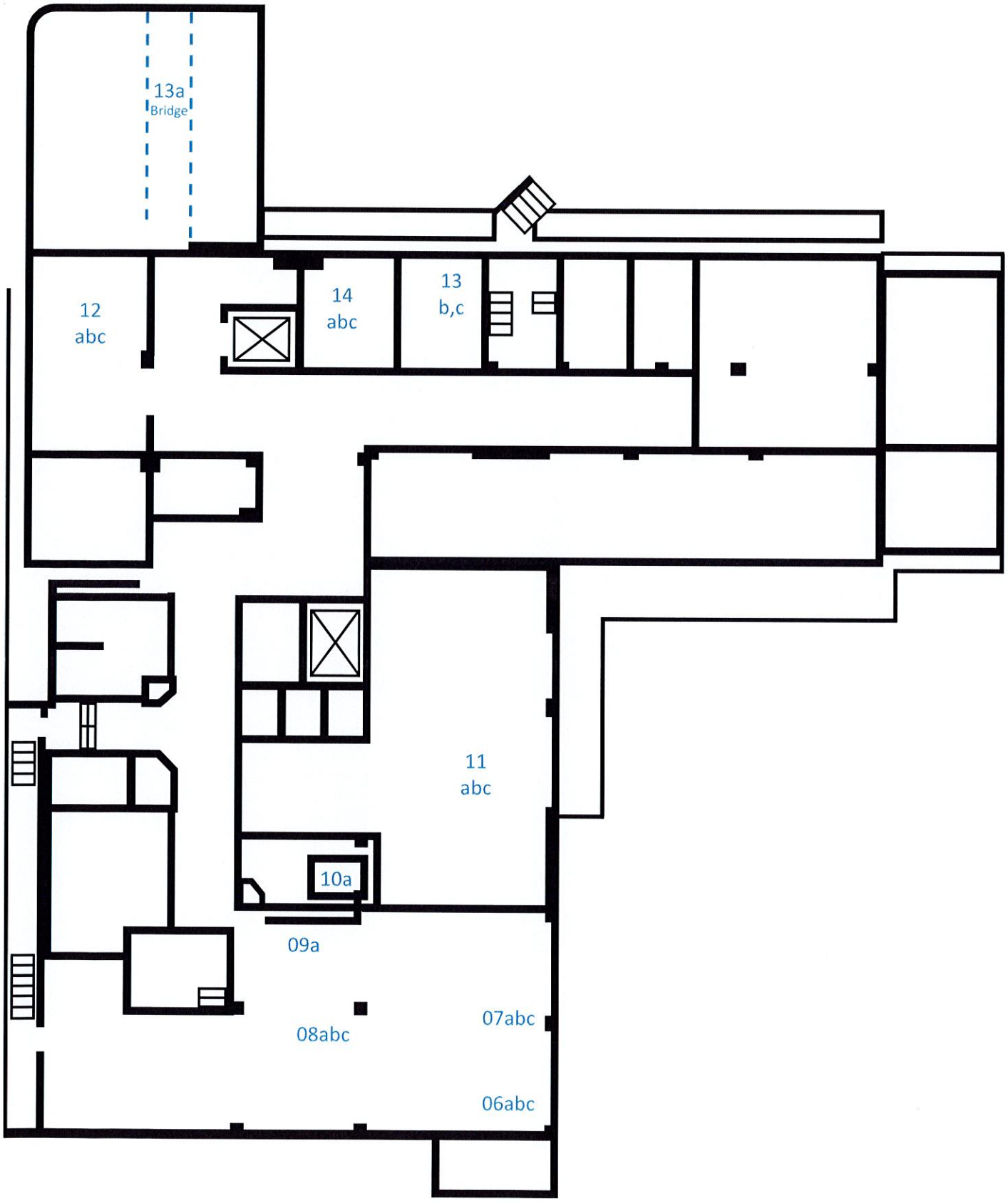
Picture 29: View of asbestos sample location #35 and #36.



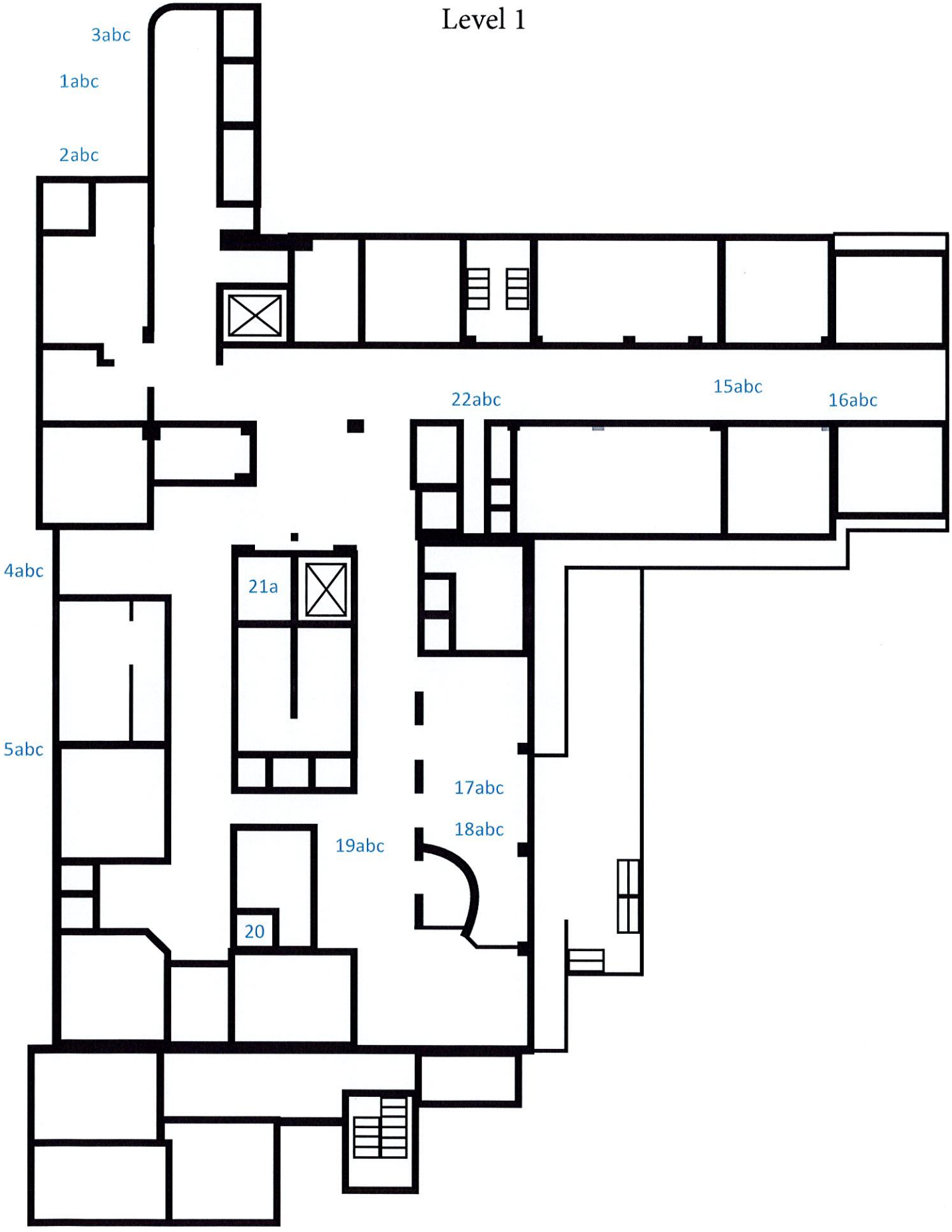
Picture 30: View of asbestos sample location #37.

Sample Location Maps

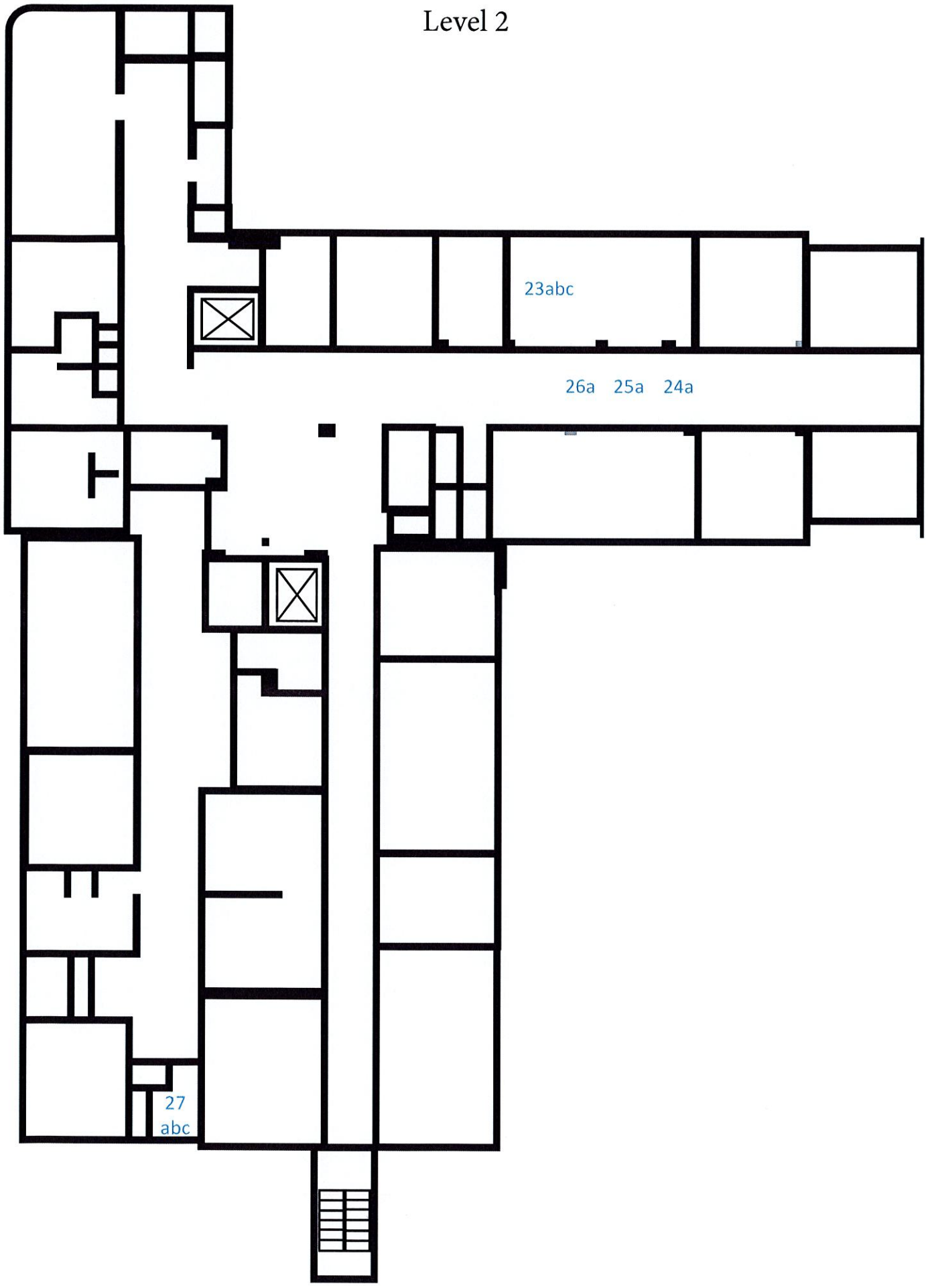
Basement Level



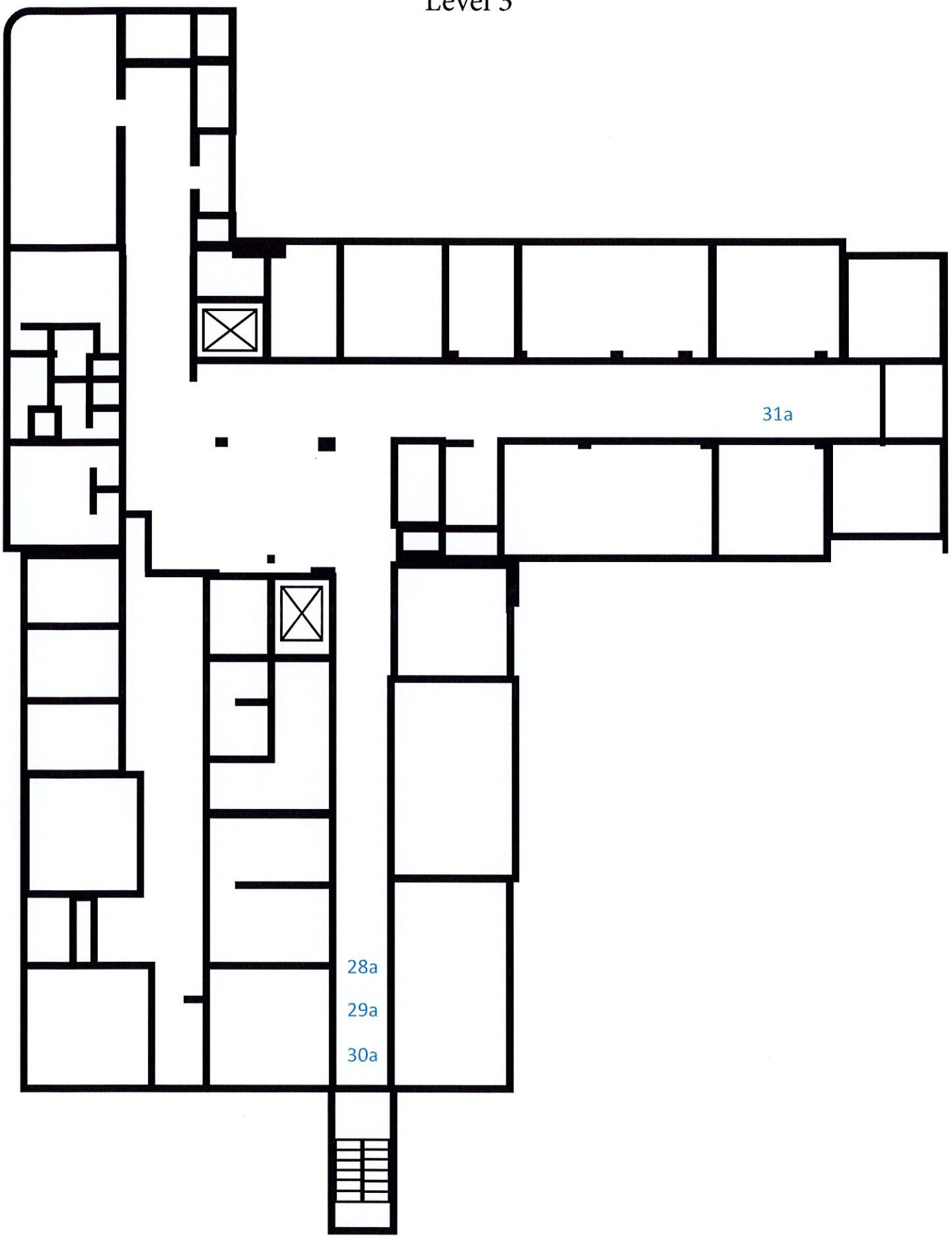
Level 1


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21a
5abc
17abc
18abc
19abc
20

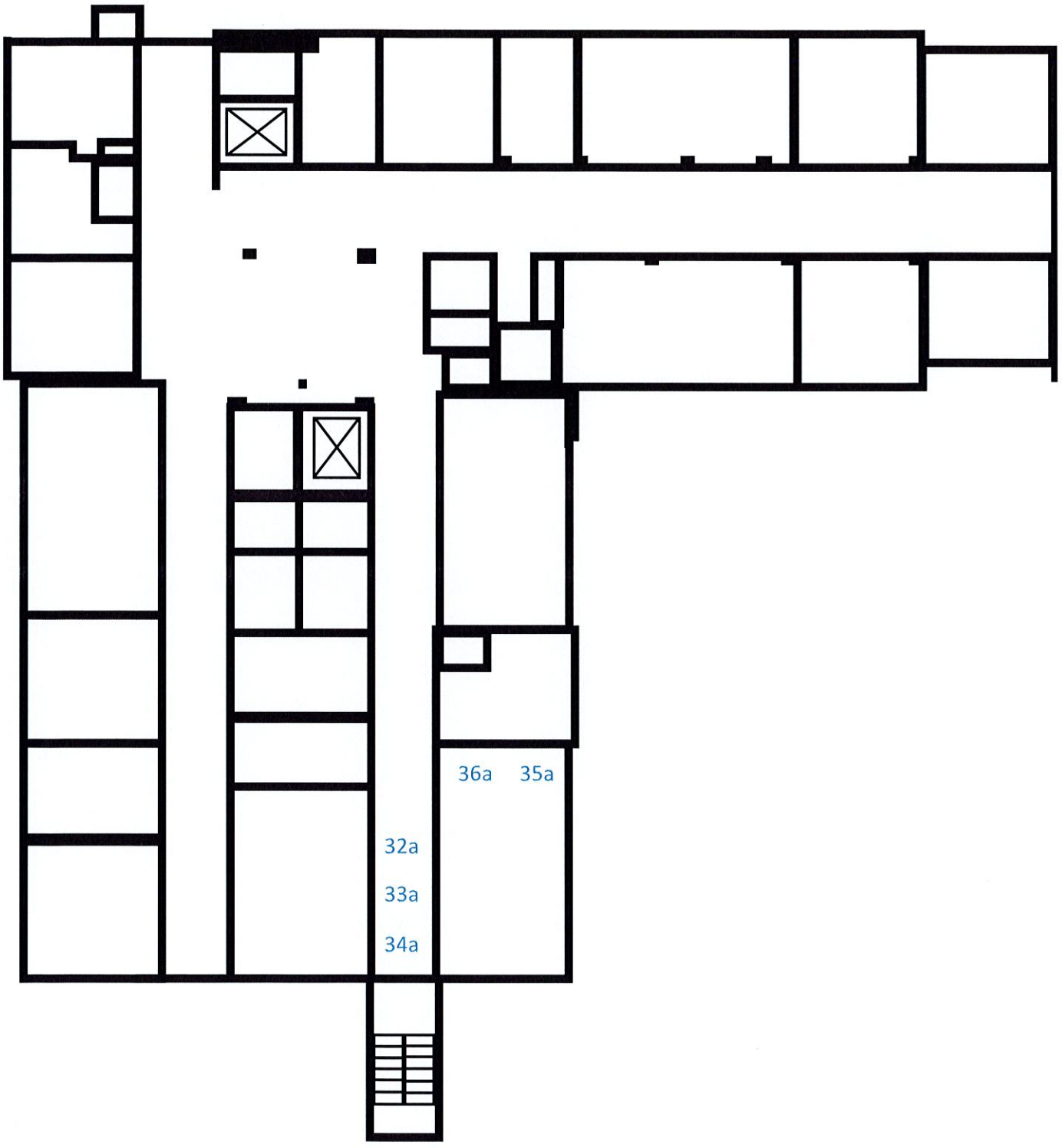
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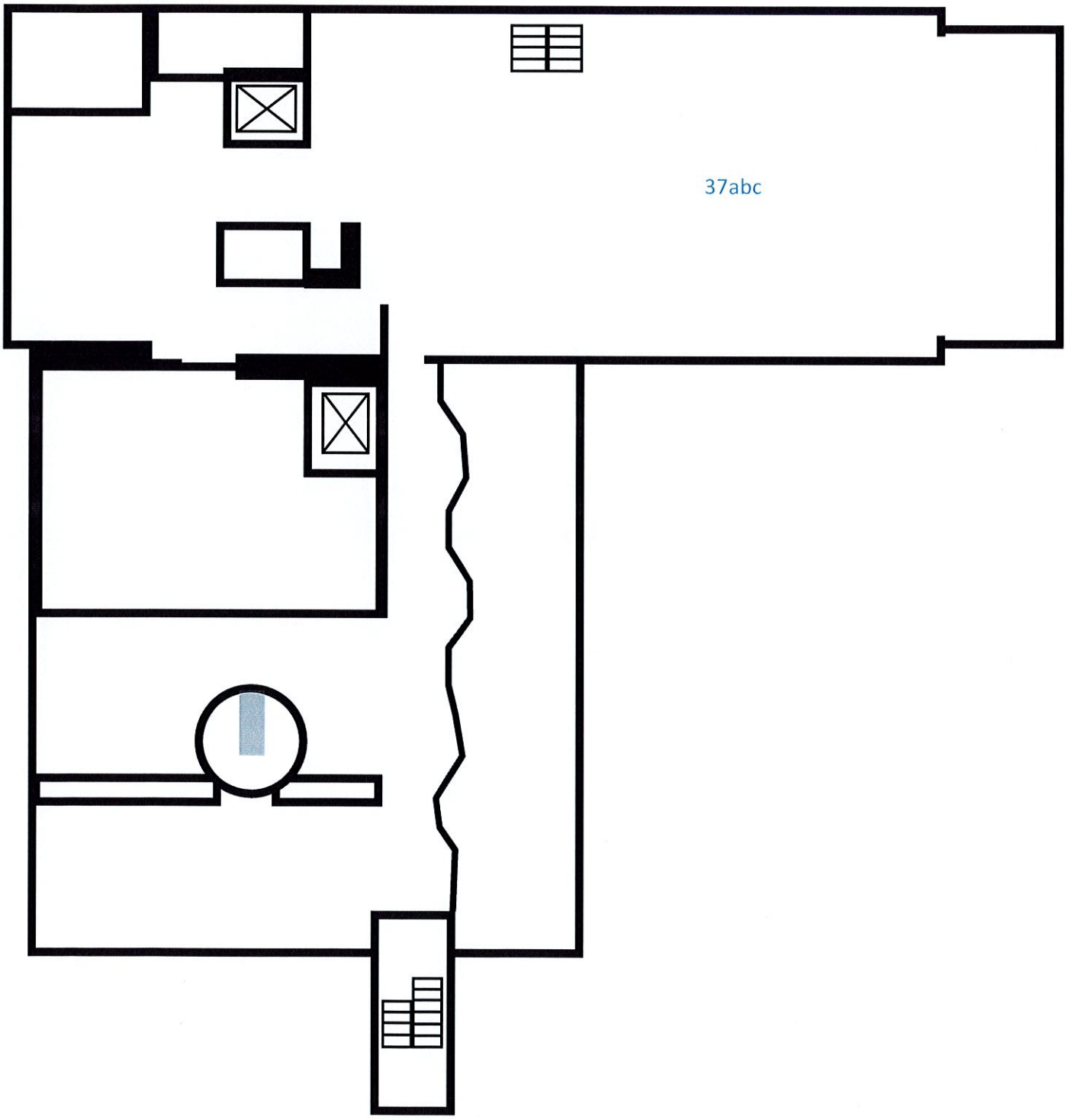
Level 3



Level 4



Level 5



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www.gatozarks.com

TITLE SEARCH REPORT

File No.: **G23-144381**

Effective Date: September 25, 2023

We have searched the land records in Jasper County, Missouri and do hereby certify that we find the following in regard to the described land,

TITLE TO THE FEE SIMPLE ESTATE OR INTEREST IN THE LAND IS AT THE EFFECTIVE DATE HEREOF VESTED IN:

Randal Kraft

THE LAND REFERRED TO IN THIS SEARCH REPORT IS DESCRIBED AS FOLLOWS:

ALL OF LOTS 139, 140, 141, 142 OF ALBERT F. FRYE'S ADDITION TO THE CITY OF JOPLIN, JASPER COUNTY, MISSOURI.

ENCUMBRANCES:

NONE

JUDGMENTS:

Judgment entered February 7, 2014, in Case #12AO-AC02726, against Kraft Insurance Services and Randal Kraft, in favor of Blessings Properties, LLC, in the amount of $6,293.65, plus any additional interests and costs, filed in the Office of the Circuit Clerk, Jasper County, Missouri.

MECHANIC'S LIENS:

NONE

TAX LIENS:

NONE

MISCELLANEOUS:

1. Taxes for the year 2022 are marked paid.
   The following information is provided for informational purposes only:
   Parcel ID No: 19-5.0-15-010-008-007.000 Tax ID No: 31-6175-1000
   Base Tax amount: $305.13

2. City Taxes and/or special assessments, if any.

3. Reservations, restrictions, easements, setbacks, rights-of-way and other matters dedicated, evidenced, noted or disclosed by Plat recorded in Plat Book 2, Page 111, Recorder's Office, Jasper County, Missouri.

4. The following information is shown for informational purposes only:
   A. Instrument(s) wherein present owner acquired title to subject property:
      Type of instrument: Corporation Warranty Deed
      Grantor: Mid-Town Management, Inc.
      Grantee: Randal Kraft, a married person
      Recording date: November 13, 2008
      Book 2113, Page 273

THIS REPORT SHOULD NOT BE CONSTRUED AS A TITLE OPINION.
Liability of the Company under this report is limited to the amount paid for same, unless an additional fee of $100 is paid to Great American Title Insurance Agency for expanded coverage.

Thank you for the opportunity to provide this service.

Respectfully yours,

Great American Title Insurance Agency

Sheila Warrell

Any inquiries concerning this report should be directed to (417)626-7875

APPENDIX E

ENVIRONMENTAL DATABASE INFORMATION

Old Freeman Hospital
2008 S. Sergeant Ave.
Joplin, MO 64804

Inquiry Number: 7830457.2s
November 22, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting SSURGO Soil Map	A-5
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Physical Setting Source Records Searched	PSGR-1

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

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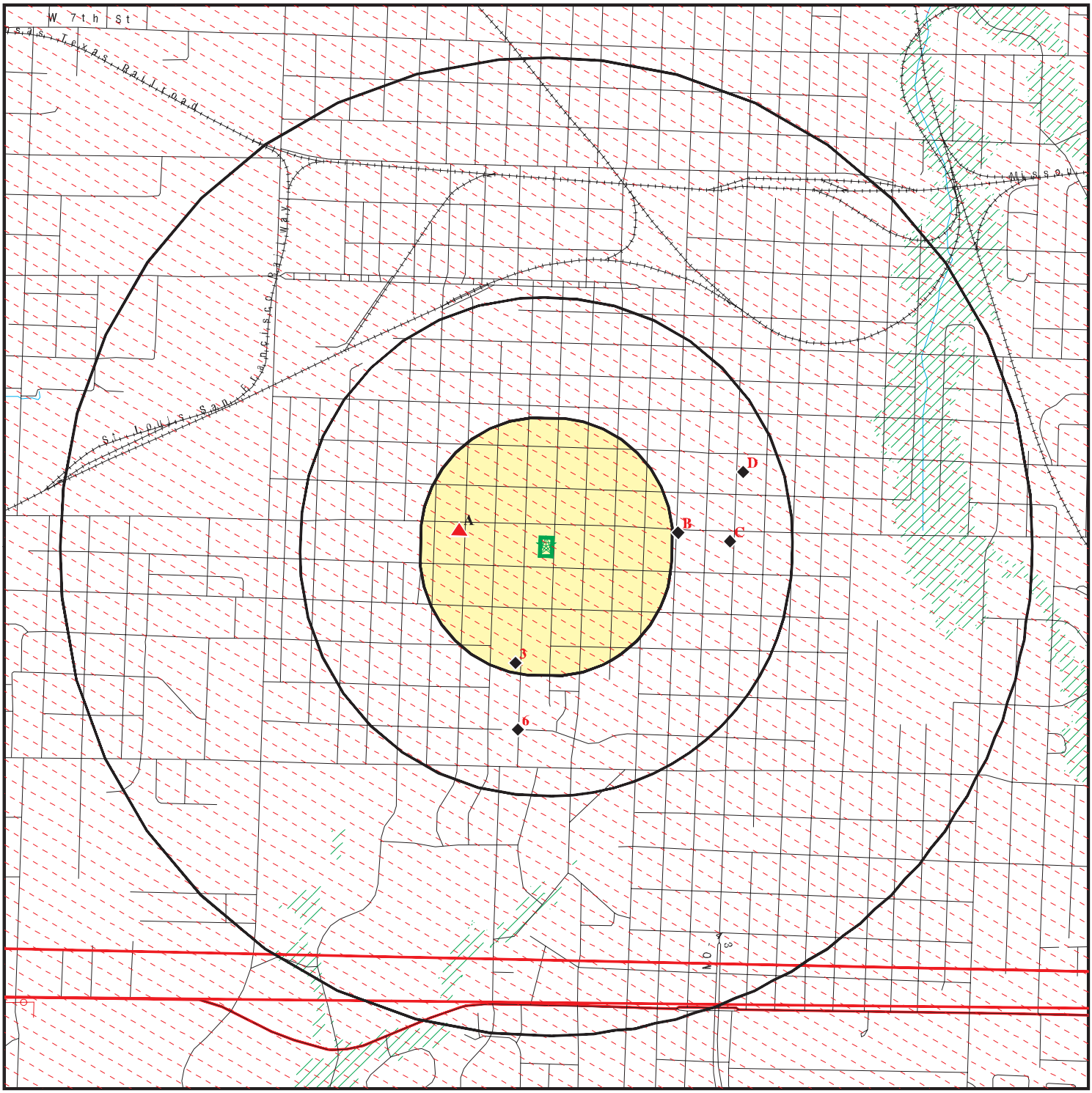
MAPPED SITES SUMMARY

Target Property Address:
2008 S. SERGEANT AVE.
JOPLIN, MO 64804

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	ORONOGO-DUENWEG MINI	VARIOUS LOCATIONS	NPL, SEMS, US ENG CONTROLS, US INST CONTROLS, ROD	Same	1 ft.
Reg	NEWTON COUNTY MINE T	ENTIRE TOWN OF	NPL, ICIS	Same	4446, 0.842, South
A1	HALLS FOOD MART #8	2002 BIRD AVE	UST	Higher	899, 0.170, WNW
A2	HALLS FOOD MART #8	2002 BIRD	UST FINDER	Higher	899, 0.170, WNW
3	MERCY HEALTH JOPLIN	2300 SOUTH JACKSON A	VCP, SPILLS, SMARS	Lower	1208, 0.229, SSW
B4	SOUTH SIDE SERVICE	2001 WALL AVE	UST FINDER, UST FINDER RELEASE	Lower	1383, 0.262, East
B5	SOUTH SIDE SERVICE	2001 WALL AVE	LUST, UST	Lower	1383, 0.262, East
6	FERGUSON MEDICAL LAB	W 25TH ST AND S JACK	SEMS-ARCHIVE, RCRA NonGen / NLR	Lower	1925, 0.365, South
C7	THE CORNER MAIN STRE	2002 S MAIN ST	UST FINDER, UST FINDER RELEASE	Lower	1955, 0.370, East
C8	THE CORNER MAIN STRE	2002 S MAIN ST	LUST, UST	Lower	1955, 0.370, East
D9	OZARK SERVICE	1825 MAIN ST	LUST, UST, SPILLS	Lower	2161, 0.409, ENE
D10	OZARK SERVICE	1825 MAIN ST	UST FINDER, UST FINDER RELEASE	Lower	2161, 0.409, ENE
D11	SEVEN-ELEVEN #184	1817 S MAIN	UST FINDER, UST FINDER RELEASE	Lower	2218, 0.420, ENE
D12	SEVEN-ELEVEN #184	1817 S MAIN	LUST, UST	Lower	2218, 0.420, ENE

OVERVIEW MAP - 7830457.2S



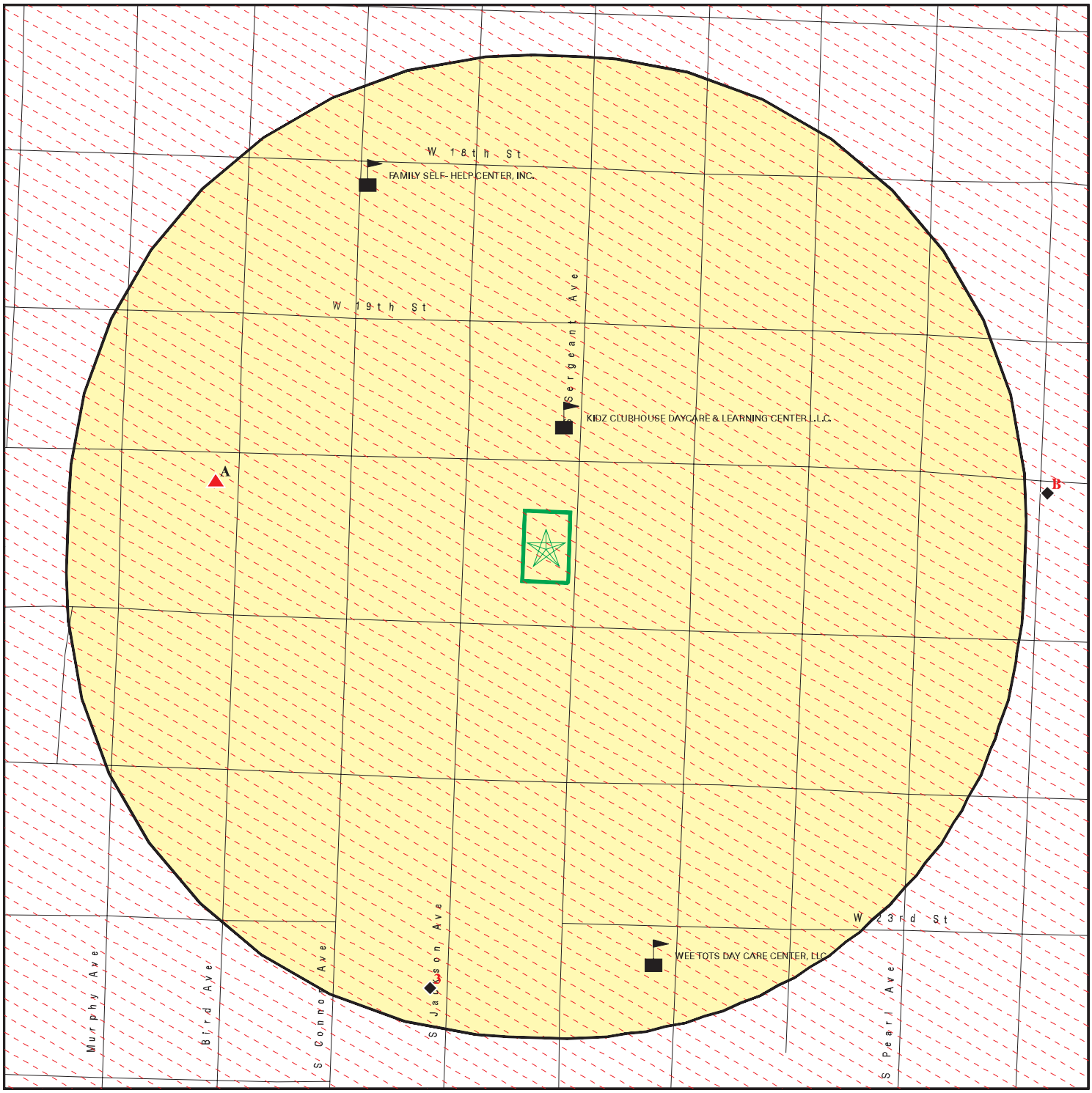
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard

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: Old Freeman Hospital	CLIENT: Terracon
ADDRESS: 2008 S. Sergeant Ave. Joplin MO 64804	CONTACT: Mandy Carlson
LAT/LONG: 37.069049 / 94.521276	INQUIRY #: 7830457.2s
	DATE: November 22, 2024 9:58 am

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DETAIL MAP - 7830457.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard

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:	Old Freeman Hospital	CLIENT:	Terracon
ADDRESS:	2008 S. Sergeant Ave. Joplin MO 64804	CONTACT:	Mandy Carlson
		INQUIRY #:	7830457.2s
LAT/LONG:	37.069049 / 94.521276	DATE:	November 22, 2024 9:59 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		1	0	0	1	NR	2
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROLS	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LAST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUST	0.500		0	0	4	NR	NR	4
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	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
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	1	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield 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								
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
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST FINDER	0.250		0	1	NR	NR	NR	1
UST FINDER RELEASE	0.500		0	0	4	NR	NR	4
E MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
SMARS	0.500		0	1	0	NR	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	5	4	9	1	0	19

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

NPL **ORONOGO-DUENWEG MINING BELT** **NPL** **1000481398**
Region **VARIOUS LOCATIONS** **SEMS** **MOD980686281**
JOPLIN, MO 64801 **US ENG CONTROLS**
< 1/8 **US INST CONTROLS**
1 ft. **ROD**
PRP

NPL:

EPA Region:	7
EPA ID:	MOD980686281
Site ID:	701290
Name:	ORONOGO-DUENWEG MINING BELT
Address:	VARIOUS LOCATIONS
City,State,Zip:	JOPLIN, MO 64801
Federal:	N
Final Date:	1990-08-30 00:00:00
Latitude:	37.101111
Longitude:	-94.420561
Site Score:	46.200000000000003
Native American Entity:	The Osage Nation (Current)

Substance as of 08/2019:

NPL Status:	Currently on the Final NPL

NPL Status:	Currently on the Final NPL
Substance ID:	C247
Substance:	ZINC AND COMPOUNDS
Pathway:	NO PATHWAY INDICATED
Scoring:	1

NPL Status:	Currently on the Final NPL
Substance ID:	D006
CAS Number:	7440-43-9
Substance:	CADMIUM (CD)
Pathway:	NO PATHWAY INDICATED
Scoring:	1

NPL Status:	Currently on the Final NPL
Substance ID:	D008
CAS Number:	7439-92-1
Substance:	LEAD (PB)
Pathway:	GROUND WATER PATHWAY
Scoring:	3

NPL Status:	Currently on the Final NPL
Substance ID:	D008
CAS Number:	7439-92-1
Substance:	LEAD (PB)
Pathway:	SURFACE WATER PATHWAY
Scoring:	3

Summary Details:

Conditions at proposal June 24, 1988): The Oronogo-Duenweg Mining Belt is located in Jasper County, Missouri, and comprises a portion of the Tri-State Mining District of Missouri, Kansas, and Oklahoma. Two other Superfund sites in the district, Cherokee County in Kansas and Tar Creek in Ottawa County, Oklahoma, were placed on the NPL in September 1983. Superfund-financed remedial activities are ongoing at these sites. Lead and inc ores, as well as some cadmium ores, weremined, milled, and smelted throughout Jasper

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

County from 1848 to the late 1960s. Mining efforts were originally performed by small independent companies that were later organi ed into larger mining operations. Abundant mining activities occurred in an area of 2 by 10 miles between Oronogo and Duenweg, northeast of Joplin. The area is honeycombed with underground workings, pits, shafts open, closed, and collapsed), mine tailings, waste piles, and ponds holding tailing waters.The Jasper County portion of the mining district contains many abandoned underground mine workings, and the land surface in many parts of the county is covered with an estimated 10 million tons of mining wastes. The primary sources of contamination at the site are residual metal sulfides in abandoned mine workings and tailing piles that were left uncovered and unstabili ed. Upon exposure to the atmosphere, these sulfides mobili e as dissolved compounds, increasing acidity. Theresulting metal-laden acidic waters, referred to as acid mine drainage, contaminate ground water and fill mine shafts and subsidences; when the waters surface through springs, they combine with metal-laden run-off and contaminate rivers, creeks,and lakes. Studies conducted by the U.S. Geological Survey 1977) concluded that ground water and surface water are contaminated with lead, cadmium, and inc. An estimated 1,500 people obtain drinking water from private wells within 3 miles ofthe site. Status August 30, 1990): EPA plans to conduct a remedial investigation/feasibility study to determine the type and extent of contamination in Jasper County and identify alternatives for remedial action.

Category as of 08/2019:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-<= 10 Feet
Category Value:	1

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	10

Narratives as of 08/2019:

NPL Name:	ORONOGO-DUENWEG MINING BELT

Site as of 08/2019:

EPA Region:	07
Site ID:	0701290
Site Status:	F
Federal Site:	N
Date Finalized:	08/30/90
Date Proposed:	06/24/88

Site Status as of 08/2019:

Proposed Date:	06/24/1988
Final Date:	08/30/1990
NPL Status:	Final

Narr:

Site Name:	Oronogo-Duenweg Mining Belt
Site EPA ID:	MOD980686281
Listing Date:	8/30/1990
Site Score:	46.2
Federal Facility Indicator:	No

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Site List URL:

Site Progress URL:

Federal Register URL:

Site Location URL:

SEMS:

Site ID:	0701290
EPA ID:	MOD980686281
Name:	ORONOGO-DUENWEG MINING BELT
Address:	VARIOUS LOCATIONS
City,State,Zip:	JOPLIN, MO 64801
Cong District:	07
FIPS Code:	29097
Latitude:	37.101111
Longitude:	-94.420561
FF:	N
NPL:	Currently on the Final NPL

SEMS Detail:

Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	2
Start Date:	1994-12-31 05:00:00
Finish Date:	1998-07-29 04:00:00
Qual:	V
Current Action Lead:	EPA Perf

Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	3
Start Date:	1995-07-10 04:00:00
Qual:	V
Current Action Lead:	EPA Perf

Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

NPL:	F
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	4
Start Date:	2004-07-20 04:00:00
Qual:	V
Current Action Lead:	EPA Perf In-Hse
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	5
Start Date:	2004-07-19 04:00:00
Current Action Lead:	EPA Perf In-Hse
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	6
Start Date:	2004-07-29 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	AS
Action Name:	AIR SRVY
SEQ:	1
Start Date:	1989-03-14 05:00:00
Finish Date:	1989-09-15 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	1992-02-15 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	2
Start Date:	1998-07-29 04:00:00
Finish Date:	2007-09-20 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	FM
Action Name:	FPA/MA
SEQ:	1
Start Date:	2000-10-01 04:00:00
Finish Date:	2006-09-30 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	1
Start Date:	2001-01-15 05:00:00
Finish Date:	2002-09-27 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

SEQ:	2
Start Date:	2006-12-08 05:00:00
Finish Date:	2007-08-27 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	3
Start Date:	2011-09-21 04:00:00
Finish Date:	2012-08-29 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	4
Start Date:	2016-08-21 05:00:00
Finish Date:	2017-08-25 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	FE
Action Name:	5 YEAR
SEQ:	5
Start Date:	2021-08-25 05:00:00
Finish Date:	2022-08-16 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Start Date:	1989-08-31 04:00:00
Finish Date:	1989-08-31 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	2
Start Date:	1991-03-28 05:00:00
Finish Date:	1991-03-29 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	3
Start Date:	1993-04-14 04:00:00
Finish Date:	1993-04-15 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	4
Start Date:	1994-05-02 04:00:00
Finish Date:	1994-09-15 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1986-02-07 05:00:00

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Finish Date:	1986-02-07 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	HA
Action Name:	Health Asmt
SEQ:	1
Start Date:	1991-02-15 05:00:00
Finish Date:	1994-05-04 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	HA
Action Name:	Health Asmt
SEQ:	2
Start Date:	1999-08-11 04:00:00
Finish Date:	2002-09-30 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1990-08-30 04:00:00
Finish Date:	1990-08-30 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1988-06-24 04:00:00
Finish Date:	1988-06-24 04:00:00

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1986-06-25 04:00:00
Finish Date:	1986-06-25 04:00:00
Qual:	H
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1979-11-01 05:00:00
Finish Date:	1979-11-01 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1986-07-20 04:00:00
Finish Date:	1986-07-20 04:00:00
Qual:	H
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1989-06-16 04:00:00

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Finish Date:	2004-09-30 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	TA
Action Name:	TECH ASSIST
SEQ:	1
Start Date:	2004-05-10 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	00
Action Code:	TG
Action Name:	TA GRANT
SEQ:	1
Start Date:	1994-03-31 05:00:00
Finish Date:	2006-08-15 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1992-06-24 04:00:00
Finish Date:	2004-09-30 04:00:00
Qual:	V
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	ED
Action Name:	R/H ASMT
SEQ:	1
Start Date:	1991-03-26 05:00:00
Finish Date:	1995-11-08 05:00:00

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: ED
Action Name: R/H ASMT
SEQ: 2
Start Date: 2023-06-08 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: EE
Action Name: EE/CA
SEQ: 1
Start Date: 2000-07-24 04:00:00
Finish Date: 2000-08-08 04:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: RA
Action Name: RA
SEQ: 4
Start Date: 2007-09-25 04:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: RA
Action Name: RA
SEQ: 8
Start Date: 2023-09-22 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: RD
Action Name: RD
SEQ: 3
Start Date: 2007-02-07 05:00:00
Finish Date: 2020-08-31 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: RD
Action Name: RD
SEQ: 5
Start Date: 2021-09-28 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: RI
Action Name: RI
SEQ: 1
Start Date: 1990-04-24 04:00:00
Finish Date: 2001-02-13 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 01
Action Code: RV
Action Name: RMVL
SEQ: 3
Start Date: 2001-08-26 04:00:00
Finish Date: 2008-09-19 04:00:00
Qual: C
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	RV
Action Name:	RMVL
SEQ:	4
Start Date:	2008-12-10 05:00:00
Finish Date:	2009-04-24 04:00:00
Qual:	C
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	2
Start Date:	2007-02-07 05:00:00
Finish Date:	2017-09-28 05:00:00
Current Action Lead:	EPA Ovrsght
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	BF
Action Name:	PRP RA
SEQ:	3
Start Date:	2017-09-29 05:00:00
Finish Date:	2020-03-09 05:00:00
Current Action Lead:	EPA Ovrsght
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	BE
Action Name:	PRP RD
SEQ:	2
Start Date:	2008-09-02 04:00:00
Finish Date:	2020-06-12 05:00:00
Current Action Lead:	EPA Ovrsght
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	1
Start Date:	1991-08-02 04:00:00
Finish Date:	2004-09-30 04:00:00
Current Action Lead:	EPA Ovrsght
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	TS
Action Name:	TRTSTUDY
SEQ:	2
Start Date:	2016-03-08 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	2
Start Date:	2004-09-30 04:00:00
Finish Date:	2004-09-30 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	02
Action Code:	FS
Action Name:	FS
SEQ:	1
Start Date:	1995-09-15 04:00:00
Finish Date:	1996-08-01 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

FF:	N
OU:	02
Action Code:	RA
Action Name:	RA
SEQ:	1
Start Date:	1996-08-02 04:00:00
Finish Date:	2002-04-05 05:00:00
Qual:	FR
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	02
Action Code:	RD
Action Name:	RD
SEQ:	1
Start Date:	1996-08-03 04:00:00
Finish Date:	1998-03-20 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	02
Action Code:	RV
Action Name:	RMVL
SEQ:	2
Start Date:	1995-03-13 05:00:00
Finish Date:	1996-03-12 05:00:00
Qual:	C
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	02
Action Code:	RV
Action Name:	RMVL
SEQ:	8
Start Date:	2024-06-21 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

FF:	N
OU:	02
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	6
Start Date:	2024-01-17 06:00:00
Finish Date:	2024-03-06 06:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	02
Action Code:	TS
Action Name:	TRTSTUDY
SEQ:	1
Start Date:	1996-04-01 05:00:00
Finish Date:	2006-12-01 05:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1996-08-01 04:00:00
Finish Date:	1996-08-01 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	03
Action Code:	RA
Action Name:	RA
SEQ:	2
Start Date:	1997-04-01 05:00:00
Finish Date:	2002-04-05 05:00:00
Qual:	FR
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

FF:	N
OU:	03
Action Code:	RV
Action Name:	RMVL
SEQ:	5
Start Date:	2019-03-11 05:00:00
Finish Date:	2020-01-07 06:00:00
Qual:	C
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	03
Action Code:	RV
Action Name:	RMVL
SEQ:	6
Start Date:	2022-05-23 05:00:00
Finish Date:	2023-12-20 06:00:00
Qual:	C
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	03
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	5
Start Date:	2018-10-04 05:00:00
Finish Date:	2018-12-19 06:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	03
Action Code:	BE
Action Name:	PRP RD
SEQ:	1
Start Date:	1996-08-03 04:00:00
Finish Date:	1998-03-20 05:00:00
Current Action Lead:	EPA Ovrsght
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

NPL:	F
FF:	N
OU:	03
Action Code:	TA
Action Name:	TECH ASSIST
SEQ:	2
Start Date:	2021-12-13 06:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	04
Action Code:	RA
Action Name:	RA
SEQ:	3
Start Date:	2001-06-18 04:00:00
Finish Date:	2007-09-18 04:00:00
Qual:	FR
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	04
Action Code:	RD
Action Name:	RD
SEQ:	2
Start Date:	2000-02-15 05:00:00
Finish Date:	2001-06-18 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	04
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	1994-11-08 05:00:00
Finish Date:	2005-09-09 04:00:00
Qual:	C
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

NPL:	F
FF:	N
OU:	04
Action Code:	RV
Action Name:	RMVL
SEQ:	7
Start Date:	2023-11-21 06:00:00
Qual:	C
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	04
Action Code:	NK
Action Name:	PRP FS
SEQ:	1
Start Date:	1995-08-01 04:00:00
Finish Date:	1998-07-29 04:00:00
Current Action Lead:	EPA Ovrsght
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	04
Action Code:	BB
Action Name:	PRP RV
SEQ:	1
Start Date:	1993-12-22 05:00:00
Finish Date:	2002-09-30 04:00:00
Qual:	C
Current Action Lead:	EPA Ovrsght
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT
NPL:	F
FF:	N
OU:	04
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	1998-07-29 04:00:00
Finish Date:	1998-07-29 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701290
EPA ID:	MOD980686281
Site Name:	ORONOGO-DUENWEG MINING BELT

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

NPL: F
FF: N
OU: 05
Action Code: EE
Action Name: EE/CA
SEQ: 2
Start Date: 2024-08-23 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 05
Action Code: FS
Action Name: FS
SEQ: 2
Start Date: 2018-09-28 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701290
EPA ID: MOD980686281
Site Name: ORONOGO-DUENWEG MINING BELT
NPL: F
FF: N
OU: 05
Action Code: RI
Action Name: RI
SEQ: 2
Start Date: 2005-08-19 04:00:00
Finish Date: 2023-09-30 05:00:00
Current Action Lead: EPA Perf

SIte:
Name: ORONOGO-DUENWEG MINING BELT
Address: VARIOUS LOCATIONS
City,State,Zip: JOPLIN, MO 64801
Action Taken Date: 05/05/2016
EPA ID: MOD980686281
Action Name: Explanation of Significant Differences
Action ID: 1
Operable Unit: 01
Contaminated Media: Soil
Federal Facility: N
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 37.101111
Longitude: -94.420561

Media:
EPA ID: MOD980686281
Contaminated Media: Soil

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	05/05/2016
Federal Facility:	N
Fiscal Year:	2016
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	05/05/2016
Federal Facility:	N
Fiscal Year:	2016
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	05/05/2016
Federal Facility:	N
Fiscal Year:	2016
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	05/05/2016
Federal Facility:	N
Fiscal Year:	2016
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Sediment
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	09/27/2013
Federal Facility:	N
Fiscal Year:	2013
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	08/01/1996
Federal Facility:	N
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	08/01/1996
Federal Facility:	N
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	08/01/1996
Federal Facility:	N
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	08/01/1996
Federal Facility:	N
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Sediment

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Sediment
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Surface Water
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Sediment
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Sediment
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

EPA ID:	MOD980686281
Contaminated Media:	Surface Water
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Sediment
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Sediment
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Sediment
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Solid Waste
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

EPA ID:	MOD980686281
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/30/2004
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/29/1998
Federal Facility:	N
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/29/1998
Federal Facility:	N
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/29/1998
Federal Facility:	N
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561
EPA ID:	MOD980686281
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/29/1998
Federal Facility:	N
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

US INST CONTROLS:

Name:	ORONOGO-DUENWEG MINING BELT
Address:	VARIOUS LOCATIONS
City,State,Zip:	JOPLIN, MO 64801
EPA ID:	MOD980686281
Action Name:	Record of Decision
Action ID:	1
Operable Unit:	02
Actual Date:	08/01/1996
Contaminated Media:	Soil
Federal Facility:	N
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

Name:	ORONOGO-DUENWEG MINING BELT
Address:	VARIOUS LOCATIONS
City,State,Zip:	JOPLIN, MO 64801
EPA ID:	MOD980686281
Action Name:	Record of Decision
Action ID:	2
Operable Unit:	01
Actual Date:	09/30/2004
Contaminated Media:	Soil
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

Name:	ORONOGO-DUENWEG MINING BELT
Address:	VARIOUS LOCATIONS
City,State,Zip:	JOPLIN, MO 64801
EPA ID:	MOD980686281
Action Name:	Record of Decision
Action ID:	2
Operable Unit:	01
Actual Date:	09/30/2004
Contaminated Media:	Solid Waste
Federal Facility:	N
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.101111
Longitude:	-94.420561

Name:	ORONOGO-DUENWEG MINING BELT
Address:	VARIOUS LOCATIONS
City,State,Zip:	JOPLIN, MO 64801
EPA ID:	MOD980686281
Action Name:	Record of Decision
Action ID:	3
Operable Unit:	04
Actual Date:	07/29/1998

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Contaminated Media: Groundwater
Federal Facility: N
Fiscal Year: 1998
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 37.101111
Longitude: -94.420561

ROD:
Name: ORONOGO-DUENWEG MINING BELT
Address: VARIOUS LOCATIONS
City,State,Zip: JOPLIN, MO 64801
EPA ID: MOD980686281
RG: 7
Site ID: 701290
Action: GOVT Decision Document (ROD)
Operable Unit Number: RESIDENTIAL YARDS
SEQ ID: 1
Action Completion: 1996-08-01 00:00:00
NPL Status: Final

Name: ORONOGO-DUENWEG MINING BELT
Address: VARIOUS LOCATIONS
City,State,Zip: JOPLIN, MO 64801
EPA ID: MOD980686281
RG: 7
Site ID: 701290
Action: GOVT ESD
Operable Unit Number: MINE AND MILL WASTE
SEQ ID: 1
Action Completion: 2016-05-05 00:00:00
NPL Status: Final

Name: ORONOGO-DUENWEG MINING BELT
Address: VARIOUS LOCATIONS
City,State,Zip: JOPLIN, MO 64801
EPA ID: MOD980686281
RG: 7
Site ID: 701290
Action: GOVT ROD Amendment for PRP Remedy
Operable Unit Number: MINE AND MILL WASTE
SEQ ID: 1
Action Completion: 2013-09-27 00:00:00
NPL Status: Final

Name: ORONOGO-DUENWEG MINING BELT
Address: VARIOUS LOCATIONS
City,State,Zip: JOPLIN, MO 64801
EPA ID: MOD980686281
RG: 7
Site ID: 701290
Action: GOVT ROD for PRP Remedy
Operable Unit Number: MINE AND MILL WASTE
SEQ ID: 2
Action Completion: 2004-09-30 00:00:00
NPL Status: Final

ORONOGO-DUENWEG MINING BELT (Continued) **1000481398**

Name:	ORONOGO-DUENWEG MINING BELT
Address:	VARIOUS LOCATIONS
City,State,Zip:	JOPLIN, MO 64801
EPA ID:	MOD980686281
RG:	7
Site ID:	701290
Action:	GOVT ROD for PRP Remedy
Operable Unit Number:	GROUND WATER
SEQ ID:	3
Action Completion:	1998-07-29 00:00:00
NPL Status:	Final

PRP:

PRP Name:
ACME LAND COMPANY
ACME LAND COMPANY
ACME LAND COMPANY
AMAX ENVIRONMENTAL SERVICES, INC.
AMAX, INC.
ASARCO, INC.
ASARCO, INC.
ASARCO, INC.
ASARCO, INC.
ASARCO, INC. -
ASARCO, INC. - NJ
BLUE TEE CORP.
BLUE TEE CORP.
BLUE TEE CORP.
BLUE TEE CORP.
BLUE TEE CORP.
BROWN AND ROOT, INC.
BROWN AND ROOT, INC.
BROWN STRAUSS, INC.
CHILDRESS ROYALTY COMPANY

Click this hyperlink while viewing on your computer to access
36 additional PRP: record(s) in the EDR Site Report.

NPL Region South 1/2-1 4446 ft. **NEWTON COUNTY MINE TAILINGS**
ENTIRE TOWN OF
GRANBY, MO 64844

NPL 1000139728
ICIS N/A

NPL:

EPA Region:	7
EPA ID:	MOD981507585
Site ID:	701651
Name:	NEWTON COUNTY MINE TAILINGS
Address:	MULTIPLE AREAS WITHIN
City,State,Zip:	NEWTON COUNTY, MO
Federal:	N
Final Date:	2003-09-29 00:00:00
Latitude:	36.9921
Longitude:	-94.3848
Site Score:	50
Native American Entity:	The Osage Nation (Current)

Substance as of 08/2019:

NPL Status:	Currently on the Final NPL

NEWTON COUNTY MINE TAILINGS (Continued) **1000139728**

NPL Status: Currently on the Final NPL
Substance ID: D006
CAS Number: 7440-43-9
Substance: CADMIUM (CD)
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: D008
CAS Number: 7439-92-1
Substance: LEAD (PB)
Pathway: GROUND WATER PATHWAY
Scoring: 4

Summary Details:

Conditions at Proposal April 30, 2003): The Newton County Mine Tailings site is located in southwest Missouri in the Tri-State Mining District. The site is being proposed to the NPL because of the presence of lead and cadmium contamination in residential drinking water wells significantly above the current health based drinking water limits. Based on current sampling information, the contaminated ground water encompasses approximately 160 square miles. In 1999, EPA provided bottled water to county residents as an immediate, temporary response to the known health threat associated with the consumption of lead and cadmium contaminated water. Currently, 350 residential properties in Newton County receive bottled water from EPA and have no alternative safe drinking water supply. From approximately 1850 to 1950, lead, cadmium, and inc mining were major industries in Newton County and the land is marked by numerous open mine shafts, tailings piles, and underground mine workings. In addition, the extensive mining activity has resulted in unique underground channels and faults with exposed lead, cadmium, and inc ores. The mines were located below the water table and during periods of operations were kept dry by pumping ground water from the shafts. Following abandonment of the mines, pumping ceased, the water table returned to its natural levels, and the ground water came in contact with abandoned underground mines and exposed ore. Lead, cadmium, and inc ground water contamination resulted when the oxygenated water leached metals from the exposed ores in the abandoned mines. Further contamination resulted from lead, cadmium, and inc leaching from surface waste piles into the ground water through naturally occurring faults and the numerous constructed mine shafts throughout the county. Following reports of elevated blood lead levels in children in surrounding counties with similar mining histories, EPA conducted limited sampling around the city ofGranby in 1995, followed by more extensive ground water and soil sampling throughout Newton County in 1998 and 2000. The upper aquifer is the sole source of drinking water for private residential wells throughout Newton County. Based on the 2000 sampling data, at least 200 residential wells are contaminated with lead or cadmium above health based benchmarks of 15 ppm of lead and 5 ppm of cadmium. In addition, the 1998 soil sampling indicated surface soil lead contamination as highas 33,500 milligrams per kilogram mg/kg) in the city of Granby. In addition to the ground water contamination, several hundred properties have elevated levels of lead and cadmium in the surface soil. A removal action conducted in 1999-2000 included excavation of contaminated soils from a number of properties. The criteria for removal included properties with soil samples collected outside the roof drip line) containing lead concentrations equal to or greater than 400 mg/kg. Currently, removals have occurred at 221 properties. No further soil remedial action at these properties is anticipated based on information

NEWTON COUNTY MINE TAILINGS (Continued) **1000139728**

currently available. Soil removal at additional residential properties is ongoing. Status September 2003):EPA is considering various alternatives for this site. The description of the site release) is based on information available at the time the site was evaluated with the HRS. The description may change as additional information is gatheredon the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices. For more information about the ha ardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Substances and Disease Registry ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at http://www.atsdr.cdc.gov/toxfaq.html or by telephone at 1-888-42-ATSDR or 1-888-422-8737.

Narratives as of 08/2019:
- NPL Name: NEWTON COUNTY MINE TAILINGS

Site as of 08/2019:
- EPA Region: 07
- Site ID: 0701651
- Site Status: F
- Federal Site: N
- Date Finalized: 09/29/03
- Date Proposed: 04/30/03

Site Status as of 08/2019:
- Proposed Date: 04/30/2003
- NPL Status: Proposed

Narr:
- Site Name: Newton County Mine Tailings
- Site EPA ID: MOD981507585
- Listing Date: 9/29/2003
- Site Score: 50
- Federal Facility Indicator: No

Site List URL:

Site Progress URL:

Federal Register URL:

Site Location URL:

ICIS:
- Enforcement Action ID: HQ-2003-6003
- FRS ID: 110009339554
- Action Name: Asarco & Southern Peru Copper Company
- Facility Name: NEWTON COUNTY MINE TAILINGS
- Facility Address: ENTIRE TOWN OF GRANBY, MO 64844
- Enforcement Action Type: Civil Judicial Action
- Facility County: NEWTON
- Program System Acronym: CERCLIS
- Enforcement Action Forum Desc: Judicial

NEWTON COUNTY MINE TAILINGS (Continued) **1000139728**

EA Type Code: CIV
Latitude in Decimal Degrees: 36.992163
Longitude in Decimal Degrees: -94.38502
Program System Acronym: MOD981507585

Enforcement Action ID: 07-2011-0163
FRS ID: 110009339554
Action Name: NEWTON COUNTY MINE TAILINGS SUPERFUND SITE; GOLDFIELD CORPORATION
Facility Name: NEWTON COUNTY MINE TAILINGS
Facility Address: ENTIRE TOWN OF
GRANBY, MO 64844
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: NEWTON
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 122H
Latitude in Decimal Degrees: 36.992163
Longitude in Decimal Degrees: -94.38502
Program System Acronym: MOD981507585

Enforcement Action ID: 07-2011-0151
FRS ID: 110009339554
Action Name: NEWTON COUNTY MINE TAILINGS SUPERFUND SITE
Facility Name: NEWTON COUNTY MINE TAILINGS
Facility Address: ENTIRE TOWN OF
GRANBY, MO 64844
Enforcement Action Type: Civil Judicial Action
Facility County: NEWTON
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Latitude in Decimal Degrees: 36.992163
Longitude in Decimal Degrees: -94.38502
Program System Acronym: MOD981507585

Enforcement Action ID: 07-2009-0150
FRS ID: 110009339554
Action Name: ASARCO, LLC (NATIONAL CASE)
Facility Name: NEWTON COUNTY MINE TAILINGS
Facility Address: ENTIRE TOWN OF
GRANBY, MO 64844
Enforcement Action Type: Bankruptcy
Facility County: NEWTON
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Judicial
EA Type Code: BNK
Latitude in Decimal Degrees: 36.992163
Longitude in Decimal Degrees: -94.38502
Program System Acronym: MOD981507585

Enforcement Action ID: 07-2007-0055
FRS ID: 110009339554
Action Name: NEWTON COUNTY MINE TAILINGS SUPERFUND SITE OU1 GRANDBY SUBDISTRICT
Facility Name: NEWTON COUNTY MINE TAILINGS
Facility Address: ENTIRE TOWN OF
GRANBY, MO 64844
Enforcement Action Type: Civil Judicial Action

NEWTON COUNTY MINE TAILINGS (Continued) **1000139728**

Facility County: NEWTON
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Latitude in Decimal Degrees: 36.992163
Longitude in Decimal Degrees: -94.38502
Program System Acronym: MOD981507585

Enforcement Action ID: 07-1996-0158
FRS ID: 110009339554
Action Name: NEWTON COUNTY, MO
Facility Name: NEWTON COUNTY MINE TAILINGS
Facility Address: ENTIRE TOWN OF
GRANBY, MO 64844
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: NEWTON
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Latitude in Decimal Degrees: 36.992163
Longitude in Decimal Degrees: -94.385021
Program System Acronym: 33386

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N

NEWTON COUNTY MINE TAILINGS (Continued) **1000139728**

Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

Facility Name: NEWTON COUNTY MINE TAILINGS
Address: ENTIRE TOWN OF
Tribal Indicator: N
Fed Facility: No

NEWTON COUNTY MINE TAILINGS (Continued) **1000139728**

Facility Name:	NEWTON COUNTY MINE TAILINGS
Address:	ENTIRE TOWN OF
Tribal Indicator:	N
Fed Facility:	No

Facility Name:	NEWTON COUNTY MINE TAILINGS
Address:	ENTIRE TOWN OF
Tribal Indicator:	N
Fed Facility:	No

Facility Name:	NEWTON COUNTY MINE TAILINGS
Address:	ENTIRE TOWN OF
Tribal Indicator:	N
Fed Facility:	No

Facility Name:	NEWTON COUNTY MINE TAILINGS
Address:	ENTIRE TOWN OF
Tribal Indicator:	N
Fed Facility:	No

Facility Name:	NEWTON COUNTY MINE TAILINGS
Address:	ENTIRE TOWN OF
Tribal Indicator:	N
Fed Facility:	No

Facility Name:	NEWTON COUNTY MINE TAILINGS
Address:	ENTIRE TOWN OF
Tribal Indicator:	N
Fed Facility:	No

Facility Name:	NEWTON COUNTY MINE TAILINGS
Address:	ENTIRE TOWN OF
Tribal Indicator:	N
Fed Facility:	No

A1 **HALLS FOOD MART #8** **UST** **U000750699**
WNW **2002 BIRD AVE** **N/A**
1/8-1/4 **JOPLIN, MO 64804**
0.170 mi.
899 ft. **Site 1 of 2 in cluster A**

Relative:
Higher

Actual:
1059 ft.

UST:

Facility ID:	ST0011433
Region:	SW
Easting:	364466.497
Northing:	4103678.31
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	CON_Fortin,Joel
Date GIS Data Collected:	02/21/2014
Lat/Long:	37.06962 / -94.52547

Tanks:

Owner:

Owner ID:	OW22522
Owner Name:	HRN SERVICES LLC
Owner Address:	2002 BIRD AVE
Owner City,St,Zip:	JOPLIN, MO 64804
Owner Phone:	6247720

HALLS FOOD MART #8 (Continued) **U000750699**

Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Record Added:	2019-07-22 00:00:00
Date Record Edited:	2019-07-22 00:00:00
Name of Person Editing Record:	VANDEPOPUL, C

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Curently in use**
Date Tank Installed:	01/01/1977
Tank Material:	Steel
Tank External Protection:	Impressed
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	07/31/2019
Person Adding/Editing Record:	VANDEPOPUL, C
Is Tank Used For Emergency Generator:	No
Registration End Date:	09/30/2029
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	28337
Tank PK:	28337
Compartment Status:	Curently in use
Capacity:	10000
Substance:	R
Mixture:	False
Pipe Installation Date:	1985-01-01 00:00:00
Pipe System:	1
Pipe Material:	2
Pipe Protection Date:	1985-01-01 00:00:00
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW22522
Owner Name:	HRN SERVICES LLC
Owner Address:	2002 BIRD AVE
Owner City,St,Zip:	JOPLIN, MO 64804
Owner Phone:	6247720
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Record Added:	2019-07-22 00:00:00
Date Record Edited:	2019-07-22 00:00:00
Name of Person Editing Record:	VANDEPOPUL, C

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Curently in use**

HALLS FOOD MART #8 (Continued) **U000750699**

Date Tank Installed:	01/01/1985
Tank Material:	Steel
Tank External Protection:	Impressed
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	07/31/2019
Person Adding/Editing Record:	VANDEPOPUL, C
Is Tank Used For Emergency Generator:	No
Registration End Date:	09/30/2029
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	28338
Tank PK:	28338
Compartment Status:	Curently in use
Capacity:	10000
Substance:	Diesel
Mixture:	False
Pipe Installation Date:	1985-01-01 00:00:00
Pipe System:	1
Pipe Material:	2
Pipe Protection Date:	1985-01-01 00:00:00
Pipe Double Wall:	0
Spill Protection:	True

Tank Aug 2011:

Facility Id:	ST0011433
Tank Id:	1
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0011433
Tank Id:	2
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

A2
WNW
1/8-1/4
0.170 mi.
899 ft.

HALLS FOOD MART #8
2002 BIRD
JOPLIN, MO 64804

Site 2 of 2 in cluster A

UST FINDER **1028472870**
N/A

Relative:
Higher

Actual:
1059 ft.

UST FINDER:

Object ID:	259239
Facility ID:	MOST0011433
Name:	HALLS FOOD MART #8
Address:	2002 BIRD
City,State,Zip:	JOPLIN, MO 64804
Open USTs:	2
Closed USTs:	0
TOS USTs:	0
Population 1500ft:	1462
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, Low Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - Surface Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002
Within WHPA:	Yes
WHPA PWS Facility ID:	MO5241734_95165
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	110702070901
Facility Status:	Open UST(s)
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.524599
Y Coord:	37.069581
Latitude:	37.069581
Longitude:	-94.524599

UST FINDER:

Object ID:	924523
Facility ID:	MOST0011433
Tank ID:	MO28338
Tank Status:	Open
Installation Date:	1985/01/01 16:00:00+00
Tank Capacity:	10000
Substances:	Diesel
Tank Wall Type:	Single

Object ID:	930389
Facility ID:	MOST0011433
Tank ID:	MO28337
Tank Status:	Open
Installation Date:	1977/01/01 16:00:00+00
Tank Capacity:	10000
Substances:	Regular Gas
Tank Wall Type:	Single

3
SSW
1/8-1/4
0.229 mi.
1208 ft.

MERCY HEALTH JOPLIN
2300 SOUTH JACKSON AVE.
JOPLIN, MO 64804

VCP
SPILLS
SMARS

S123161967
N/A

Relative:
Lower

Actual:
1039 ft.

VCP:

Name:	MERCY HEALTH JOPLIN
Address:	2300 SOUTH JACKSON AVE.
City,State,Zip:	JOPLIN, MO 64804
Northing:	4103250.932
Easting:	364632.72
Facility Status:	Cert. of Completion Issued
Manager:	Bobbie Pennington
Cert. of completion issued:	12/7/2020
Application Received:	11/1/2018
Acreage:	1
Operable Unit:	Mercy Health Joplin
Site Description:	The approximately one-acre property is currently vacant and serves as a parking lot located in a mixed-use neighborhood. The property was originally developed in the early 1960 s as an expansion of the St. John s Hospital. The property housed the laundry facilities and parking for the hospital. The laundry was demolished around 2005 and has served as a parking lot since. An underground vault made of concrete was found on the property near the site of the laundry building. Sampling of the contents showed a mixture of petroleum products and water. During the removal of the vault in January 2018, an unregistered 12,000-gallon underground storage tank (UST) also containing the petroleum mixture was discovered underneath. The UST was excavated and a total of 1,173 tons of soil were removed during July and August of 2018. Soil samples collected after excavation of the UST show that concentrations of contaminants are still present. The site was enrolled in the Brownfields/Voluntary Cleanup Program in January of 2019.
Contaminant:	Heating Oil

SPILLS:

Address:	2300 SOUTH JACKSON AVENUE
City,State,Zip:	JOPLIN, MO
Facility ID:	1810301000ESM
Spill Number:	1810301000ESM
Reported Date:	10/30/2018
Reported Time:	10:00:00
Regional Office:	SWRO
Latitude:	37.0657300
Property Code:	1
Longitude:	-94.522540
UTM Zone For GPS:	15
Cause Sub Category:	4
Email:	False
Ongoing:	False
Is A Chemical Pickup Needed?:	False
Cause:	10
Contact Name:	Ryan Kemper
Contact Phone #:	3145226321
Contact Id:	60486
Organization Name:	Thompson Coburn LLP
Organization Address1:	505 North Seventh Street
Discovery Date:	10/30/2018

MERCY HEALTH JOPLIN (Continued) **S123161967**

Discovery Time:	10:00:00
Organization City:	St. Louis
Incident Date:	05/15/2018
Organization State:	MO
Incident Time:	12:00:00
Organization Zip:	63101
GPS Code:	AO
Date Of Incident Search:	05/15/2018
UTM North:	4103248.1796570001
UTM East:	364642.67982899997
Cause Description:	Leaking Tank System
Report Origin:	69
Lead Agency:	Private - Responsible Party Contractor
Additional Information:	The caller Reported a release from a heating oil tank during the removal of the tank on May 15, 2018. All the free product was recovered and the contaminated soil was removed. No waterways or storm sewers were impacted.
Entity Telephone:	3145526000
Property Code Description:	Abandoned Property
Description:	Address Matching - Other Address Matching

Cleanup Actions:

Spill Number:	1810301000ESM
Incident ID:	60486
Cleanup Action Code:	16
Cleanup Action Description:	Removed/Recovered

Cleanup By:

Spill Number:	1810301000ESM
Incident ID:	60486
Agent ID:	69
Agency:	Private - Responsible Party Contractor

Report Distribution:

Spill Number:	1810301000ESM
Incident ID:	60486
Agent Code:	23
Agency:	DNR - Southwest Regional Office

SMARS:

Name:	MERCY HEALTH JOPLIN
Address:	2300 SOUTH JACKSON AVE.
City,State,Zip:	JOPLIN, MO 64804
SM Number:	13109
Ownership:	VCP
Superfund Ownership:	No
Voluntary Cleanup Ownership:	Yes
Federal Facilities Ownership:	No
Permits Ownership:	No
Registry:	No

B4 **SOUTH SIDE SERVICE** **UST FINDER** **1028464656**
East **2001 WALL AVE** **UST FINDER RELEASE** **N/A**
1/4-1/2 **JOPLIN, MO 64801**
0.262 mi.
1383 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
1037 ft.

UST FINDER:

Object ID:	259237
Facility ID:	MOST0001854
Name:	SOUTH SIDE SERVICE
Address:	2001 WALL AVE
City,State,Zip:	JOPLIN, MO 64801
Open USTs:	0
Closed USTs:	3
TOS USTs:	0
Population 1500ft:	1241
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, Medium Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - Surface Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002
Within WHPA:	Yes
WHPA PWS Facility ID:	MO5241734_95165
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	110702070901
Facility Status:	Closed UST(s)
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.516292
Y Coord:	37.0695490000001
Latitude:	37.069549
Longitude:	-94.516292

UST FINDER:

Object ID:	954671
Facility ID:	MOST0001854
Tank ID:	MO4569
Tank Status:	Closed
Substances:	Other
Tank Wall Type:	Single

Object ID:	931138
Facility ID:	MOST0001854
Tank ID:	MO4568
Tank Status:	Closed
Installation Date:	1976/01/01 16:00:00+00
Tank Capacity:	4000
Substances:	Gasoline, Including Blends
Tank Wall Type:	Single

Object ID:	935051
Facility ID:	MOST0001854
Tank ID:	MO4567
Tank Status:	Closed
Installation Date:	1971/01/01 16:00:00+00
Tank Capacity:	6000

SOUTH SIDE SERVICE (Continued) **1028464656**

Substances: Gasoline, Including Blends
Tank Wall Type: Single

UST FINDER RELEASE:
Object ID: 11004
Facility ID: MOST0001854
Lust ID: MOR001462
Name: SOUTH SIDE SERVICE
Address: 2001 WALL AVE
City,State,Zip: JOPLIN, MO 64801
Reported Date: 1989/10/30 15:59:59+00
Status: No Further Action
Population within 1500ft: 1241
Domestic Wells within 1500ft: 0
Land Use: Developed, Medium Intensity
Within SPA: Yes
SPA PWS Facility ID: KS2002109_4350
SPA Water Type: SW - SurRELEASEe Water
SPA Facility Type: IN - Intake
SPA HUC12: 110702071002
Within WHPA: Yes
WHPA PWS Facility ID: MO5241734_95165
WHPA Water Type: GW - Ground water
WHPA Facility Type: WL - Well
WHPA HUC12: 110702070901
Within 100yr Floodplain: No
EPA Region: 7
Coordinate Source: State
X Coord: -94.5162999999999
Y Coord: 37.06956
Latitude: 37.06956
Longitude: -94.5163

B5 **SOUTH SIDE SERVICE** **LUST** **U000282406**
East **2001 WALL AVE** **UST** **N/A**
1/4-1/2 **JOPLIN, MO 64801**
0.262 mi.
1383 ft. **Site 2 of 2 in cluster B**

Relative: LUST:
Lower
Name: SOUTH SIDE SERVICE
Actual: Address: 2001 WALL AVE
1037 ft. City,State,Zip: JOPLIN, MO 64801
Facility ID: ST0001854
Region: SW - Southwest Regional Office
Release Date: 10/30/1989
Release Type: UNDERGROUND STORAGE TANK
Date Cleanup Started: 10/30/1989
Date Cleanup Finished: 12/12/1989
Expedited: No
Expenditures From The American Recovery and Reinvestment Act of 2009No
Number Of Remediation Monitoring Wells: 0
Active: No
Date Of NFA Letter From DNR: 1989-12-12 00:00:00
Remediation ID: R001462
RBCA NFA: No

SOUTH SIDE SERVICE (Continued) **U000282406**

Project Manager:	L
Date Added:	06/30/1995
Date Record Edited:	07/13/2023
Person Adding Or Editing Record:	CHAPMAN, P
Facility Sent To State Archive:	Yes
Site Affectd By Funding Level From PSTIF:	No
General Comments:	NFA date from LTS scanned doc

UST:

Facility ID:	ST0001854
Region:	SW
Easting:	365219.935
Northing:	4103646.13
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	RANGEN, K
Date GIS Data Collected:	07/20/2020
Lat/Long:	37.0695636 / -94.516272

Tanks:

Owner:

Owner ID:	OW01618
Owner Name:	RAYMOND H. GRAGG
Owner Address:	2001 WALL AVE []
Owner City,St,Zip:	JOPLIN, MO 64801
Owner County Code:	97
Owner Phone:	6242762
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1971
Date Tank Last Used:	08/01/1989
Date Tank Permanently Closed/ Removed:	01/08/1990
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	08/22/1996
Person Adding/Editing Record:	N$HOEGR
Date Of NFA Letter:	01/08/1990
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	09/29/1989
Date Of Aprroval Letter:	01/08/1990
Firm Closing Tank:	CITY OF JOPLIN
Date Closure Report Received:	12/04/1989
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4567
Tank PK:	4567
Compartment Status:	Removed

SOUTH SIDE SERVICE (Continued) **U000282406**

Capacity:	6000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1989-08-01 00:00:00
Pipe Material:	0
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW01618
Owner Name:	RAYMOND H. GRAGG
Owner Address:	2001 WALL AVE []
Owner City,St,Zip:	JOPLIN, MO 64801
Owner County Code:	97
Owner Phone:	6242762
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1976
Tank Material:	Steel
Date Tank Last Used:	08/01/1989
Date Tank Permanently Closed/ Removed:	01/08/1990
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	08/22/1996
Person Adding/Editing Record:	N$HOEGR
Date Of NFA Letter:	01/08/1990
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	09/29/1989
Date Of Aprroval Letter:	01/08/1990
Firm Closing Tank:	CITY OF JOPLIN
Date Closure Report Received:	12/04/1989
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4568
Tank PK:	4568
Compartment Status:	Removed
Capacity:	4000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1989-08-01 00:00:00
Pipe Material:	0
Pipe Double Wall:	0
Spill Protection:	False

SOUTH SIDE SERVICE (Continued) **U000282406**

Owner:

Owner ID:	OW01618
Owner Name:	RAYMOND H. GRAGG
Owner Address:	2001 WALL AVE []
Owner City,St,Zip:	JOPLIN, MO 64801
Owner County Code:	97
Owner Phone:	6242762
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	3
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Last Used:	01/01/1986
Date Tank Permanently Closed/ Removed:	01/08/1990
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	08/22/1996
Person Adding/Editing Record:	N$HOEGR
Date Of NFA Letter:	01/08/1990
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	09/29/1989
Date Of Aprroval Letter:	01/08/1990
Firm Closing Tank:	CITY OF JOPLIN
Date Closure Report Received:	12/04/1989
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4569
Tank PK:	4569
Compartment Status:	Removed
Substance:	Other
Substance Other:	UNKNOWN
Mixture:	False
Date of Last Use:	1986-01-01 00:00:00
Pipe Material:	0
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0001854
Tank Id:	1
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

SOUTH SIDE SERVICE (Continued) **U000282406**

Facility Id:	ST0001854
Tank Id:	2
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001854
Tank Id:	3
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

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6 **FERGUSON MEDICAL LAB** **SEMS-ARCHIVE** **1003876416**
South **W 25TH ST AND S JACKSON AVE NE** **RCRA NonGen / NLR** **MOD067950436**
1/4-1/2 **JOPLIN, MO 64801**
0.365 mi.
1925 ft.

Relative:
Lower

Actual:
1027 ft.

SEMS Archive:

Site ID:	0701002
EPA ID:	MOD067950436
Name:	FERGUSON MEDICAL LABORATORIES
Address:	MEDICAL ART BLDG RM 104
City,State,Zip:	JOPLIN, MO 64801
Cong District:	07
FIPS Code:	29097
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	07
Site ID:	0701002
EPA ID:	MOD067950436
Site Name:	FERGUSON MEDICAL LABORATORIES
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1985-03-01 06:00:00
Finish Date:	1985-03-01 06:00:00
Qual:	N
Current Action Lead:	St Perf

Region:	07
Site ID:	0701002
EPA ID:	MOD067950436
Site Name:	FERGUSON MEDICAL LABORATORIES

FERGUSON MEDICAL LAB (Continued) **1003876416**

NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-08-01 04:00:00
Finish Date:	1980-08-01 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701002
EPA ID:	MOD067950436
Site Name:	FERGUSON MEDICAL LABORATORIES
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Finish Date:	1985-03-01 06:00:00
Current Action Lead:	EPA Perf In-Hse

RCRA Listings:

Date Form Received by Agency:	20180924
Handler Name:	Ferguson Medical Lab
Handler Address:	W 25th St And S Jackson Ave Ne
Handler City,State,Zip:	JOPLIN, MO 64801
EPA ID:	MOD067950436
Contact Address:	PO BOX B
Contact City,State,Zip:	JOPLIN, MO 64801
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Mailing Address:	PO BOX B
Mailing City,State,Zip:	JOPLIN, MO 64801
Owner Name:	Carnes Victory & Esther
Owner Type:	Private
Operator Name:	Carnes Victory & Esther
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	N
2018 GPRA Permit Baseline:	Not on the Baseline

FERGUSON MEDICAL LAB (Continued) **1003876416**

2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20180924
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CARNES VICTORY & ESTHER
Legal Status:	Private
Date Became Current:	20030424
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNKNOWN
Legal Status:	Other
Date Became Current:	20030311
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CARNES VICTORY & ESTHER
Legal Status:	Private
Date Became Current:	20030424
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNKNOWN
Legal Status:	Other
Date Became Current:	20030311

Historic Generators:

Receive Date:	19930826
Handler Name:	FERGUSON MEDICAL LABORATORIES
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Mo
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

FERGUSON MEDICAL LAB (Continued) **1003876416**

Receive Date:	20030311
Handler Name:	FERGUSON MEDICAL LABORATORIES
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Mo
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20180924
Handler Name:	FERGUSON MEDICAL LAB
Federal Waste Generator Description:	Not a generator, verified
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

List of NAICS Codes and Descriptions:

NAICS Code:	621511
NAICS Description:	MEDICAL LABORATORIES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C7 **THE CORNER MAIN STREET** **UST FINDER** **1028464646**
East **2002 S MAIN ST** **UST FINDER RELEASE** **N/A**
1/4-1/2 **JOPLIN, MO 64804**
0.370 mi.
1955 ft. **Site 1 of 2 in cluster C**

Relative: **Lower**
Actual: **1037 ft.**

UST FINDER:

Object ID:	259232
Facility ID:	MOST0001844
Name:	THE CORNER MAIN STREET
Address:	2002 S MAIN ST
City,State,Zip:	JOPLIN, MO 64804
Open USTs:	3
Closed USTs:	3
TOS USTs:	0
Population 1500ft:	1262
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - Surface Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002

THE CORNER MAIN STREET (Continued) **1028464646**

Within WHPA: Yes
WHPA PWS Facility ID: MO5241734_95165
WHPA Water Type: GW - Ground water
WHPA Facility Type: WL - Well
WHPA HUC12: 110702070901
Facility Status: Open UST(s)
EPA Region: 7
Coordinate Source: State
X Coord: -94.51446
Y Coord: 37.06917
Latitude: 37.06917
Longitude: -94.51446

UST FINDER:
Object ID: 929982
Facility ID: MOST0001844
Tank ID: MO4542
Tank Status: Closed
Installation Date: 1978/01/01 16:00:00+00
Tank Capacity: 10000
Substances: Gasoline, Including Blends
Tank Wall Type: Single

Object ID: 929983
Facility ID: MOST0001844
Tank ID: MO4543
Tank Status: Closed
Installation Date: 1978/01/01 16:00:00+00
Tank Capacity: 10000
Substances: Gasoline, Including Blends
Tank Wall Type: Single

Object ID: 929984
Facility ID: MOST0001844
Tank ID: MO4544
Tank Status: Closed
Installation Date: 1978/01/01 16:00:00+00
Tank Capacity: 6000
Substances: Gasoline, Including Blends
Tank Wall Type: Single

Object ID: 921329
Facility ID: MOST0001844
Tank ID: MO4545
Tank Status: Open
Installation Date: 1989/07/01 16:00:00+00
Tank Capacity: 10152
Substances: Regular Gas
Tank Wall Type: Single

Object ID: 921330
Facility ID: MOST0001844
Tank ID: MO4546
Tank Status: Open
Installation Date: 1989/07/01 16:00:00+00
Tank Capacity: 10152
Substances: Regular Gas
Tank Wall Type: Single

THE CORNER MAIN STREET (Continued) **1028464646**

Object ID:	921331
Facility ID:	MOST0001844
Tank ID:	MO4547
Tank Status:	Open
Installation Date:	1989/07/01 16:00:00+00
Tank Capacity:	6015
Substances:	Premium Gas
Tank Wall Type:	Single

UST FINDER RELEASE:

Object ID:	11015
Facility ID:	MOST0001844
Lust ID:	MOR008971
Name:	THE CORNER MAIN STREET
Address:	2002 S MAIN ST
City,State,Zip:	JOPLIN, MO 64804
Status:	No Further Action
Population within 1500ft:	1263
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - SurRELEASEe Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002
Within WHPA:	Yes
WHPA PWS Facility ID:	MO5241734_95165
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	110702070901
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.51447
Y Coord:	37.0691800000001
Latitude:	37.06918
Longitude:	-94.51447

Object ID:	11014
Facility ID:	MOST0001844
Lust ID:	MOR001461
Name:	THE CORNER MAIN STREET
Address:	2002 S MAIN ST
City,State,Zip:	JOPLIN, MO 64804
Reported Date:	1989/09/28 15:59:59+00
Status:	No Further Action
Population within 1500ft:	1263
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - SurRELEASEe Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002
Within WHPA:	Yes
WHPA PWS Facility ID:	MO5241734_95165

THE CORNER MAIN STREET (Continued) **1028464646**

WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	110702070901
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.51447
Y Coord:	37.0691800000001
Latitude:	37.06918
Longitude:	-94.51447

C8 **THE CORNER MAIN STREET** **LUST U001159631**
East **2002 S MAIN ST** **UST N/A**
1/4-1/2 **JOPLIN, MO 64804**
0.370 mi.
1955 ft. **Site 2 of 2 in cluster C**

Relative: LUST:
Lower

Actual:
1037 ft.

Name:	THE CORNER MAIN STREET
Address:	2002 S MAIN ST
City,State,Zip:	JOPLIN, MO 64804
Facility ID:	ST0001844
Region:	SW - Southwest Regional Office
Lat/Long (dms):	37 4 9 / 94 30 52
Release Date:	09/28/1989
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	09/28/1989
Date Cleanup Finished:	12/12/1989
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**1989-12-12 00:00:00**
Remediation ID:	R001461
RBCA NFA:	No
Project Manager:	L
Date Added:	06/30/1995
Date Record Edited:	07/13/2023
Person Adding Or Editing Record:	CHAPMAN, P
Facility Sent To State Archive:	Yes
Site Affectd By Funding Level From PSTIF:	No
General Comments:	NFA date from LTS scanned doc

Name:	THE CORNER MAIN STREET
Address:	2002 S MAIN ST
City,State,Zip:	JOPLIN, MO 64804
Facility ID:	ST0001844
Region:	SW - Southwest Regional Office
Lat/Long (dms):	37 4 9 / 94 30 52
Spill Number:	210701-1115-TGR
Release Date:	07/01/2021
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	08/16/2021
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	Yes
Remediation ID:	R009621

THE CORNER MAIN STREET (Continued) **U001159631**

Rank:	50
Emergeny Response Date:	07/01/2021
Emergency Cleanup Start:	08/11/2021
Contractor Performing Clean Up:	106
Project Manager:	BT
Next Correspondence/Update With Fac:	11/06/2024
Date Added:	08/16/2021
Date Record Edited:	08/08/2024
Person Adding Or Editing Record:	BIRKY, TODD
General Comments:	8/16/21 TM -- rec'd transfer rep from EER. Vapors in sewer, increased after fuel was delivered. Tank tightness test couldn t be performed but the tanks couldn't hold pressure so it was inconclusive. Contaminated soil around dispensers and tanks. WP req 01/03/22 AB -- SL sent. 1/6/22 AB -- rescinding SL due to receiving report. Rev'd subsurface investigation report. Eight borings advanced. Proposes to submit WP for SCR. Approved, due in 60 days. 05-18-22 EH -- Sent SL 06-21-22 EH -- Sent SL2 06-30-22 EH -- Rev'd SCM and Initial SC WP. Changing delineation criteria to the northwest, west, and southwest to residential due to multiple houses within 500 feet. Pending determination of DUP untill more information is obtained. The WP proposes the installation of 7 soil borings in which 5 will be converted to monitoring wells and 2 additional monitoring wells. Then a GW sampling event and door-to-door well survey is proposed. SC due in 90 days. 10-07-22 EH -- Sent SL 11-02-22 EH -- Email from April Brennan w/ EWI. Update on activities done at the site and anticipate final report by November 30, 2022. Moving tracking 12-08-22 EH -- Sent SL2 01-10-23 EH -- Rev'd Status report and work plan. Delineation of soil and ground water has not been achieved. Vapor investigation did not find any significant vapors in the sanitary sewer. The Door-to-Door well servey found no domestic wells with in 1/4 mile. Work plan was included in the recommendation and proposed the installation of 6 soil borings and 5 monitoring wells in all directions. Addtionaly 3 shallow bed rock monitoring wells were proposed to assess if the contamination has migrated to the bedrock aquifer. 3 soil vapor probes were proposed to assess current and future indoor inhalation risk for the current building. Approving WP and requesting the following, water line construction information and an additional monitoring well to the south. Report due in 90 days. 05-04-23 EH -- Sending SL 05-22-23 EH -- Email from Greg Bischof w/ EWI. The email provides an update on the completion of the site characterization activities. The project manager with EWI has changed to Max Hoffman as there will be a forthcoming bedrock investigation. Unable to obtain access. 06-01-23 EH -- Email from Max Hoffman w/ EWI. The email provides an update on the gaining of off-site access. As a contingency they have spoken with the City of Joplin about potentially placing the wells/borings into the City ROW if access can not be achived. 06-12-23 EH -- Email from Max Hoffman w/ EWI. Previous email and phone call resulted in a request for an access letter to the northen property. Contact information for northern property, Ashok Patel, Seneca Enterprises MO, LLC, 3017

THE CORNER MAIN STREET (Continued) **U001159631**

Abigail Street, Joplin, MO 64804. Sending Access letter, response due in 30 days. 07-17-23 EH -- Email from Max w/ EWI stating that work has been scheduled to be completed on August 1, 2023 and that a report will be submmited late October/ early November. Moving tracking to the end of October. 10-04-23 EH -- Email from Max w/ EWI stating that stie characterization has been completed and a risk assessment will be submitted along with the requested site characterization report. He is anticipating a submission by the end of November. Moving tracking. 3/28/24 - TKB - Rev. SC RA report. DU Not complete, several sbs and mws installed. Delineated to NON-res RBTLs. First SV sampling event. Exceedances for Residential, no exceedances for non-res. Next SV sampling event in 90 days. 7/9/24- Email from Max @ EWI. Collecting geotech samples to perform Tier 2 evaluation for future hypo building due to issues collecting soil vapor samples. 8/8/24 - TKB - Rev. Status report and WP for andditional work. 2 GT borings proposed to perform Tier 2, along with additional GW monitoring to evaluate plume stability. Approved. Report in 90 days. DUP = NOT complete

Name:	THE CORNER MAIN STREET
Address:	2002 S MAIN ST
City,State,Zip:	JOPLIN, MO 64804
Facility ID:	ST0001844
Region:	SW - Southwest Regional Office
Lat/Long (dms):	37 4 9 / 94 30 52
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	10/15/2014
Date Cleanup Finished:	04/25/2018
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**2018-05-07 00:00:00**
Remediation ID:	R008971
Rank:	51
Contractor Performing Clean Up:	220
RBCA NFA:	Yes
Project Manager:	BT
Date Added:	10/16/2014
Date Record Edited:	05/07/2018
Person Adding Or Editing Record:	VEIT, CHRIS
General Comments:	Release opened due to contamination found in groundwater during phase II. Previous release had no evidence of groundwater contamination. 10/15/14 MAD- Reviewed Phase II. Contamination found in groundwater, requesting WP for GWI 10/30/14 MAD- Reviewed WP. Approved 8 SB/MWs. 12/8/14 TB Received PSTIF cost approval for 8sb/mw installation, geotech sampling, 4 gwm events, SC/RA report. 4/29/15 vg sent status letter 5/14/15 vg received email from consultant. Field work is done, awaiting lab results. Risk assessment should be submitted by mid July. 6/30/15 TB Reviewed PSTIF cost approval for one onsite and four offsite mw for delineation and inclusion of the wells into previously proposed gwm. 6/25/15 vg app wp for add SC. Also

THE CORNER MAIN STREET (Continued) **U001159631**

requested a free product recovery report and the results of a soil vapor study. 9/2/15 vg rev a response letter, & FPR summary, requested results of vapor survey of bldgs within 100 ft of FP plume. To be submitted with SCR due in 60 days 12-1-15 vg drafted letter to off-site property owner (vet clinic) regarding access 12/1/15 vg spoke to the owner of the Walgreens property. They are willing to work with IPES for access for site characterization. They will need to coordinate with Walgreens who has the lease. Wrote letter to Grace energy asking them to contact property owner to start access negotiations. 12/8/15 vg spoke with Dr. Ben Leavens (veternarian clinic) about access to their property. He said that they would be willing to work out something with Snak Atak regarding access. He will call the consultant and the property owner and see what they can work out. 3/2/16 vg sent status letter. Response due in 30 days. 3/31/06 vg rec email from consultant, driling to be done on April 5-6th. Will reset deadline for report for around first of June. 7/22/16 vg rev SCR/RA. Requested revisions and an LCSM. Revised RA and wp for LCSM due in 60 days. 9/13/16 vg rev wp for a bedrock well and a gwmr. Approved wp & requested report on the next groundwater monitoring report in 90 days. 1/20/17 vg rev SCR for install of bedrock well, sample > DTLs for Naphthalene, app wp for add gwm, requested wp for additional bedrock wells and LCSM 3-8-17 vg rev response letter, accepted responses regarding DU pathway (incomplete determination), the Construction Worker pathway, the LCSM, the vadose zone VWC used in the tier 2 RA, but still required additional delineation of the groundwater contamination in the bedrock aquifer. A wp for add bedrock wells due in 60 days. 5-25-17 - tkb - letter with comments from 3/8/17 was not sent out. Modified letter regarding the bedrock wells. Complete additional sampling of bedrock well BMW-1 and re-evaluate the need for additional bedrock wells following that. Suggested that BMW-1 be properly purged prior to sampling. Response due in 90 days. 8/2/17 - tkb - reviewed WP for quarterly monitoring of 14 wells. Approved scope of work as written. GWMR in 90 days. 12-6-17 - TKB - Rev. GWMR x2 (Sept, 2017 and Oct, 2017 reports). Presented results of most recent sampling and gauging events. RCs for benzene exceed T1 RBTLs for hypo bldg, indoor inhalation of vapors, but not Tier 2 SSTLs. One GWM event remaining before proposed plume stability analysis is performed. Contamination appears to be delineated, no FP in any wells. Dept had 1 comment: using data from BMW1 to calculate RCs for IIV for hypo bldg. Not appropriate because they are using bedrock aquifer data because static levels in BMW1 are less than 10 feet, but water not encountered in BMW1 until 55 feet bgs. In future just use data from unconsolidated wells (uppermost groundwater bearing unit.). Next report in 90 days. 4-25-18 - TKB - Reviewed GWMR and Plume Stability Report. IPES evaluated Benzene, GRO, and MtBE dissolved plume stability. Using the 6 most recent GWM events, plume appears to be stable to decreasing. Calculated RCs below Tier 1 TBTLs except for Benzene for Indoor inhalation of vapors from GW. RCs are below Tier 2

THE CORNER MAIN STREET (Continued) **U001159631**

SSTLs for all complete exposure pathways. Drafted Non-Residential NFA for operating UST facility. DU Evaluation = incomplete

UST:

Facility ID:	ST0001844
Region:	SW
Easting:	365367.138
Northing:	4103618.35
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	CON_Fortin,Joel
Date GIS Data Collected:	02/19/2014
Lat/Long:	37.06917 / -94.51446
Lat/Long (dms):	37 4 9 / 94 30 52

Tanks:

Owner:

Owner ID:	OW01608
Owner Name:	PERRY MANAGEMENT & LP
Owner Address:	PO BOX 896
Owner City,St,Zip:	CARTHAGE, MO 64836
Owner County Code:	97
Owner Phone:	3587300
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2015-10-13 00:00:00
Name of Person Editing Record:	BERVE, TRISHA

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1978
Tank Material:	Steel
Date Tank Last Used:	05/01/1989
Date Tank Permanently Closed/ Removed:	12/12/1989
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	05/24/1996
Date Of NFA Letter:	12/12/1989
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	09/29/1989
Date Of Aprroval Letter:	12/12/1989
Firm Closing Tank:	CITY OF JOPLIN
Date Closure Report Received:	09/29/1989
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4542
Tank PK:	4542
Compartment Status:	Removed
Capacity:	10000

THE CORNER MAIN STREET (Continued) **U001159631**

Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1989-05-01 00:00:00
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW01608
Owner Name:	PERRY MANAGEMENT & LP
Owner Address:	PO BOX 896
Owner City,St,Zip:	CARTHAGE, MO 64836
Owner County Code:	97
Owner Phone:	3587300
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2015-10-13 00:00:00
Name of Person Editing Record:	BERVE, TRISHA

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1978
Tank Material:	Steel
Date Tank Last Used:	05/01/1989
Date Tank Permanently Closed/ Removed:	12/12/1989
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	05/24/1996
Date Of NFA Letter:	12/12/1989
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	09/29/1989
Date Of Aprroval Letter:	12/12/1989
Firm Closing Tank:	CITY OF JOPLIN
Date Closure Report Received:	09/29/1989
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4543
Tank PK:	4543
Compartment Status:	Removed
Capacity:	10000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1989-05-01 00:00:00
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

THE CORNER MAIN STREET (Continued) **U001159631**

Owner:

Owner ID:	OW01608
Owner Name:	PERRY MANAGEMENT & LP
Owner Address:	PO BOX 896
Owner City,St,Zip:	CARTHAGE, MO 64836
Owner County Code:	97
Owner Phone:	3587300
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2015-10-13 00:00:00
Name of Person Editing Record:	BERVE, TRISHA

Tank ID:	3
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1978
Tank Material:	Steel
Date Tank Last Used:	05/01/1989
Date Tank Permanently Closed/ Removed:	12/12/1989
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	05/24/1996
Date Of NFA Letter:	12/12/1989
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	09/29/1989
Date Of Aprroval Letter:	12/12/1989
Firm Closing Tank:	CITY OF JOPLIN
Date Closure Report Received:	09/29/1989
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4544
Tank PK:	4544
Compartment Status:	Removed
Capacity:	6000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1989-05-01 00:00:00
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW22443
Owner Name:	SHARANAR FOOD LLC
Owner Address:	2002 S MAIN ST
Owner City,St,Zip:	JOPLIN, MO 64804
Owner Phone:	5534852
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes

THE CORNER MAIN STREET (Continued) **U001159631**

Date Record Added:	2018-06-11 00:00:00
Date Record Edited:	2018-06-11 00:00:00
Name of Person Editing Record:	BERVE, TRISHA

Tank ID:	4
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Curently in use**
Date Tank Installed:	07/01/1989
Tank Material:	Steel
Tank External Protection:	Sacrificial
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	01/26/1996
Date Record Edited:	06/11/2018
Person Adding/Editing Record:	BERVE, TRISHA
Is Tank Used For Emergency Generator:	No
Registration End Date:	09/30/2028
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4545
Tank PK:	4545
Compartment Status:	Curently in use
Capacity:	10152
Substance:	R
Mixture:	False
Pipe Installation Date:	1989-07-01 00:00:00
Pipe System:	1
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW22443
Owner Name:	SHARANAR FOOD LLC
Owner Address:	2002 S MAIN ST
Owner City,St,Zip:	JOPLIN, MO 64804
Owner Phone:	5534852
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Record Added:	2018-06-11 00:00:00
Date Record Edited:	2018-06-11 00:00:00
Name of Person Editing Record:	BERVE, TRISHA

Tank ID:	5
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Curently in use**
Date Tank Installed:	07/01/1989
Tank Material:	Steel
Tank External Protection:	Sacrificial

THE CORNER MAIN STREET (Continued) **U001159631**

Tank Fees Waived: No
Expedite Closure On Tank?: No
Date Record Added: 01/26/1996
Date Record Edited: 06/28/2023
Person Adding/Editing Record: ORAVETZ, A
Is Tank Used For Emergency Generator: No
Registration End Date: 09/30/2028
LockOut Flag: No

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 4546
Tank PK: 4546
Compartment Status: Curently in use
Capacity: 10152
Substance: R
Mixture: False
Pipe Installation Date: 1989-07-01 00:00:00
Pipe System: 1
Pipe Material: 2
Pipe Double Wall: 0
Spill Protection: True

Owner:
Owner ID: OW22443
Owner Name: SHARANAR FOOD LLC
Owner Address: 2002 S MAIN ST
Owner City,St,Zip: JOPLIN, MO 64804
Owner Phone: 5534852
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Record Added: 2018-06-11 00:00:00
Date Record Edited: 2018-06-11 00:00:00
Name of Person Editing Record: BERVE, TRISHA

Tank ID: 6
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: **Curently in use**
Date Tank Installed: 07/01/1989
Tank Material: Steel
Tank External Protection: Sacrificial
Tank Fees Waived: No
Expedite Closure On Tank?: No
Date Record Added: 01/26/1996
Date Record Edited: 06/11/2018
Person Adding/Editing Record: BERVE, TRISHA
Is Tank Used For Emergency Generator: No
Registration End Date: 09/30/2028
LockOut Flag: No

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 4547

THE CORNER MAIN STREET (Continued) **U001159631**

Tank PK:	4547
Compartment Status:	Curently in use
Capacity:	6015
Substance:	P
Mixture:	False
Pipe Installation Date:	1989-07-01 00:00:00
Pipe System:	1
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Tank Aug 2011:

Facility Id:	ST0001844
Tank Id:	1
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001844
Tank Id:	2
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001844
Tank Id:	3
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001844
Tank Id:	4
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001844
Tank Id:	5
No Drinking Wells:	No
No Buildings:	No

THE CORNER MAIN STREET (Continued) **U001159631**

Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0001844
Tank Id:	6
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

D9 **OZARK SERVICE** **LUST** **U000282400**
ENE **1825 MAIN ST** **UST** **N/A**
1/4-1/2 **JOPLIN, MO 64804** **SPILLS**
0.409 mi.
2161 ft. **Site 1 of 4 in cluster D**

Relative: **Lower**
Actual: **1030 ft.**

LUST:

Name:	OZARK SERVICE
Address:	1825 MAIN ST
City,State,Zip:	JOPLIN, MO 64804
Facility ID:	ST0001848
Region:	SW - Southwest Regional Office
Lat/Long (dms):	37 4 15 / 94 30 49
Release Date:	12/09/1998
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	12/09/1998
Date Cleanup Finished:	08/08/2000
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**2001-02-14 00:00:00**
Remediation ID:	R006547
Referred To DGLS for Investigation:	3
Contractor Performing Clean Up:	292
RBCA NFA:	No
Project Manager:	L
Date Added:	09/02/1999
Date Record Edited:	02/16/2001
Person Adding Or Editing Record:	SURBER, J
Facility Sent To State Archive:	Yes
Site Affectd By Funding Level From PSTIF:	No
General Comments:	09-02-1999, DL reviewed closure report. Site contaminated above the cleanup levels established for the site. Requested additional corrective action. 06-16-2000, DL reviewed folowup responses. Additional information and sampling still needed. 11-15-2000, DL reviewed follow up response. Response still incomplete. Requested additional information and sampling. 2/14/2001 Follow-up response received 12/15/2000. Additional info and sampling indicates no contamination remaining above cleanup levels. Site closed. JS

OZARK SERVICE (Continued) **U000282400**

UST:

Facility ID:	ST0001848
Region:	SW
Easting:	365433.979
Northing:	4103800.39
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	VANCE, S
Date GIS Data Collected:	08/27/2013
Lat/Long:	37.0714568 / -94.514044
Lat/Long (dms):	37 4 15 / 94 30 49

Tanks:

Owner:

Owner ID:	OW08877
Owner Name:	GARY R & BONNIE L POWERS
Owner Address:	1825 MISSOURI
Owner City,St,Zip:	JOPLIN, MO 64804
Owner County Code:	97
Owner Phone:	6239166
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	1996-07-12 00:00:00
Date Record Added:	1996-07-17 00:00:00
Name of Person Editing Record:	N$TAYLK

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1974
Tank Material:	Steel
Date Tank Last Used:	09/01/1998
Date Tank Permanently Closed/ Removed:	12/01/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	08/04/1999
Person Adding/Editing Record:	NREQHW-VEITS
Date Of NFA Letter:	02/14/2001
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/26/1998
Date Of Aprroval Letter:	07/09/1998
Firm Closing Tank:	GARY POWER
Date Closure Report Received:	05/11/1999
LockOut Flag:	No
Comments:	2/14/2001 NFA letter issued. JS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4553
Tank PK:	4553
Compartment Status:	Removed
Capacity:	5000
Substance:	Gasoline, Including Blends
Mixture:	False

OZARK SERVICE (Continued) **U000282400**

Date of Last Use:	1998-09-01 00:00:00
Pipe System:	0
Pipe Material:	0
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW08877
Owner Name:	GARY R & BONNIE L POWERS
Owner Address:	1825 MISSOURI
Owner City,St,Zip:	JOPLIN, MO 64804
Owner County Code:	97
Owner Phone:	6239166
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	1996-07-12 00:00:00
Date Record Added:	1996-07-17 00:00:00
Name of Person Editing Record:	N$TAYLK

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Tank Material:	Steel
Date Tank Last Used:	09/01/1998
Date Tank Permanently Closed/ Removed:	12/01/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/29/1998
Date Record Edited:	08/04/1999
Person Adding/Editing Record:	NREQHW-VEITS
Date Of NFA Letter:	02/14/2001
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/26/1998
Date Of Aprroval Letter:	07/09/1998
Firm Closing Tank:	GARY POWER
Date Closure Report Received:	05/11/1999
LockOut Flag:	No
Comments:	2/14/2001 NFA letter issued. JS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4554
Tank PK:	4554
Compartment Status:	Removed
Capacity:	6000
Substance:	Diesel
Mixture:	False
Date of Last Use:	1998-09-01 00:00:00
Pipe System:	0
Pipe Material:	0
Pipe Double Wall:	0
Spill Protection:	True

OZARK SERVICE (Continued) **U000282400**

Owner:

Owner ID:	OW08877
Owner Name:	GARY R & BONNIE L POWERS
Owner Address:	1825 MISSOURI
Owner City,St,Zip:	JOPLIN, MO 64804
Owner County Code:	97
Owner Phone:	6239166
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	1996-07-12 00:00:00
Date Record Added:	1996-07-17 00:00:00
Name of Person Editing Record:	N$TAYLK

Tank ID:	3
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Last Used:	09/01/1998
Date Tank Permanently Closed/ Removed:	12/01/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/29/1998
Date Record Edited:	08/04/1999
Person Adding/Editing Record:	NREQHW-VEITS
Date Of NFA Letter:	02/14/2001
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/26/1998
Date Of Aprroval Letter:	07/09/1998
Firm Closing Tank:	GARY POWER
Date Closure Report Received:	05/11/1999
LockOut Flag:	No
Comments:	2/14/2001 NFA letter issued. JS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4555
Tank PK:	4555
Compartment Status:	Removed
Capacity:	10000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1998-09-01 00:00:00
Pipe System:	0
Pipe Material:	0
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW08877
Owner Name:	GARY R & BONNIE L POWERS
Owner Address:	1825 MISSOURI
Owner City,St,Zip:	JOPLIN, MO 64804
Owner County Code:	97
Owner Phone:	6239166

OZARK SERVICE (Continued) **U000282400**

Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	1996-07-12 00:00:00
Date Record Added:	1996-07-17 00:00:00
Name of Person Editing Record:	N$TAYLK

Tank ID:	4
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Tank Material:	Steel
Date Tank Last Used:	02/01/1998
Date Tank Permanently Closed/ Removed:	04/02/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/29/1998
Date Record Edited:	08/04/1999
Person Adding/Editing Record:	NREQHW-VEITS
Date Of NFA Letter:	02/14/2001
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/26/1998
Date Of Aprroval Letter:	07/09/1998
Firm Closing Tank:	GARY POWER
Date Closure Report Received:	05/11/1999
LockOut Flag:	No
Comments:	2/14/2001 NFA letter issued. JS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4556
Tank PK:	4556
Compartment Status:	Removed
Capacity:	150
Substance:	Used Oil
Mixture:	False
Date of Last Use:	1998-02-01 00:00:00
Pipe System:	4
Pipe Material:	0
Pipe Double Wall:	0
Spill Protection:	True

Tank Aug 2011:

Facility Id:	ST0001848
Tank Id:	1
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001848
Tank Id:	2

OZARK SERVICE (Continued) **U000282400**

No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001848
Tank Id:	3
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001848
Tank Id:	4
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

SPILLS:

Address:	1825 SOUTH MAIN
City,State,Zip:	JOPLIN, MO
Facility ID:	1303271310BWH
Spill Number:	1303271310BWH
Reported Date:	03/27/2013
Reported Time:	13:10:00
Regional Office:	SWRO
Latitude:	37.0708198
Property Code:	14
Longitude:	-94.513839
UTM Zone For GPS:	15
Email:	False
Ongoing:	False
Is A Chemical Pickup Needed?:	False
Cause:	8
Contact Name:	Unknown
Contact Phone #:	0000000000
Contact Id:	50847
Organization Name:	Steve’s Used Cars
Organization Address1:	1825 South Main
Discovery Date:	03/27/2013
Discovery Time:	13:10:00
Organization City:	Joplin
Organization State:	MO
GPS Code:	AO
Date Of Incident Search:	03/27/2013
UTM North:	4103800.5344110001
UTM East:	365425.17541999999

OZARK SERVICE (Continued) **U000282400**

Cause Description: Improper Disposal
Report Origin: 51
Lead Agency: US Environmental Protection Agency
Additional Information: The caller reports the dumping of waste oil onto the ground behind the RP's business.

Entity Telephone: 0000000000
Property Code Description: Other - Fixed Facility
Description: Address Matching - Other Address Matching

Cleanup Actions:
Spill Number: 1303271310BWH
Incident ID: 50847
Cleanup Action Code: 14
Cleanup Action Description: Pending

Referral Actions:
Spill Number: 1303271310BWH
Incident ID: 50847
Agent Code: 23
Agency: DNR - Southwest Regional Office

Report Distribution:
Spill Number: 1303271310BWH
Incident ID: 50847
Agent Code: 16
Agency: DNR - WPP - Water Pollution Branch

Spill Number: 1303271310BWH
Incident ID: 50847
Agent Code: 23
Agency: DNR - Southwest Regional Office

D10 **OZARK SERVICE** **UST FINDER** **1028464650**
ENE **1825 MAIN ST** **UST FINDER RELEASE** **N/A**
1/4-1/2 **JOPLIN, MO 64804**
0.409 mi.
2161 ft. **Site 2 of 4 in cluster D**

Relative: **Lower**
Actual: **1030 ft.**

UST FINDER:
Object ID: 259253
Facility ID: MOST0001848
Name: OZARK SERVICE
Address: 1825 MAIN ST
City,State,Zip: JOPLIN, MO 64804
Open USTs: 0
Closed USTs: 4
TOS USTs: 0
Population 1500ft: 1239
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Developed, High Intensity
Within SPA: Yes
SPA PWS Facility ID: KS2002109_4350
SPA Water Type: SW - Surface Water
SPA Facility Type: IN - Intake

OZARK SERVICE (Continued) **1028464650**

SPA HUC12: 110702071002
Within WHPA: Yes
WHPA PWS Facility ID: MO5241734_95165
WHPA Water Type: GW - Ground water
WHPA Facility Type: WL - Well
WHPA HUC12: 110702070901
Facility Status: Closed UST(s)
EPA Region: 7
Coordinate Source: State
X Coord: -94.513741
Y Coord: 37.07082
Latitude: 37.07082
Longitude: -94.513741

UST FINDER:
Object ID: 954678
Facility ID: MOST0001848
Tank ID: MO4556
Tank Status: Closed
Tank Capacity: 150
Substances: Used Oil
Tank Wall Type: Single

Object ID: 954679
Facility ID: MOST0001848
Tank ID: MO4555
Tank Status: Closed
Tank Capacity: 10000
Substances: Gasoline, Including Blends
Tank Wall Type: Single

Object ID: 954680
Facility ID: MOST0001848
Tank ID: MO4554
Tank Status: Closed
Tank Capacity: 6000
Substances: Diesel
Tank Wall Type: Single

Object ID: 932784
Facility ID: MOST0001848
Tank ID: MO4553
Tank Status: Closed
Installation Date: 1974/01/01 16:00:00+00
Tank Capacity: 5000
Substances: Gasoline, Including Blends
Tank Wall Type: Single

UST FINDER RELEASE:
Object ID: 11022
Facility ID: MOST0001848
Lust ID: MOR006547
Name: OZARK SERVICE
Address: 1825 MAIN ST
City,State,Zip: JOPLIN, MO 64804
Reported Date: 1998/12/09 15:59:59+00

OZARK SERVICE (Continued) **1028464650**

Status:	No Further Action
Population within 1500ft:	1238
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - SurRELEASEe Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002
Within WHPA:	Yes
WHPA PWS Facility ID:	MO5241734_95165
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	110702070901
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.51375
Y Coord:	37.0708300000001
Latitude:	37.07083
Longitude:	-94.51375

D11 **SEVEN-ELEVEN #184** **UST FINDER** **1028472385**
ENE **1817 S MAIN** **UST FINDER RELEASE** **N/A**
1/4-1/2 **JOPLIN, MO 64801**
0.420 mi.
2218 ft. **Site 3 of 4 in cluster D**

Relative: **Lower**

Actual: **1028 ft.**

UST FINDER:

Object ID:	259258
Facility ID:	MOST0010869
Name:	SEVEN-ELEVEN #184
Address:	1817 S MAIN
City,State,Zip:	JOPLIN, MO 64801
Open USTs:	0
Closed USTs:	2
TOS USTs:	0
Population 1500ft:	1209
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - Surface Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002
Within WHPA:	Yes
WHPA PWS Facility ID:	MO5241734_95165
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	110702070901
Facility Status:	Closed UST(s)
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.513753
Y Coord:	37.0713000000001
Latitude:	37.0713
Longitude:	-94.513753

SEVEN-ELEVEN #184 (Continued) **1028472385**

UST FINDER:

Object ID:	948037
Facility ID:	MOST0010869
Tank ID:	MO26891
Tank Status:	Closed
Tank Capacity:	6016
Substances:	Gasoline, Including Blends
Tank Wall Type:	Single

Object ID:	948038
Facility ID:	MOST0010869
Tank ID:	MO26890
Tank Status:	Closed
Tank Capacity:	10152
Substances:	Gasoline, Including Blends
Tank Wall Type:	Single

UST FINDER RELEASE:

Object ID:	11021
Facility ID:	MOST0010869
Lust ID:	MOR003402
Name:	SEVEN-ELEVEN #184
Address:	1817 S MAIN
City,State,Zip:	JOPLIN, MO 64801
Reported Date:	1992/05/20 15:59:59+00
Status:	No Further Action
Population within 1500ft:	1208
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	Yes
SPA PWS Facility ID:	KS2002109_4350
SPA Water Type:	SW - SurRELEASEe Water
SPA Facility Type:	IN - Intake
SPA HUC12:	110702071002
Within WHPA:	Yes
WHPA PWS Facility ID:	MO5241734_95165
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	110702070901
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.51376
Y Coord:	37.07131
Latitude:	37.0713099999999
Longitude:	-94.51376

D12 **SEVEN-ELEVEN #184** **LUST** **U001159590**
ENE **1817 S MAIN** **UST** **N/A**
1/4-1/2 **JOPLIN, MO 64801**
0.420 mi.
2218 ft. **Site 4 of 4 in cluster D**

Relative:
Lower

Actual:
1028 ft.

LUST:

Name:	SEVEN-ELEVEN #184
Address:	1817 S MAIN
City,State,Zip:	JOPLIN, MO 64801
Facility ID:	ST0010869
Region:	SW - Southwest Regional Office
Release Date:	05/20/1992
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	09/09/1993
Date Cleanup Finished:	03/18/1998
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**1998-03-20 00:00:00**
Remediation ID:	R003402
Contractor Performing Clean Up:	35
RBCA NFA:	No
Project Manager:	L
Date Added:	06/30/1995
Date Record Edited:	09/05/2019
Person Adding Or Editing Record:	MASCHLER, H.
Facility Sent To State Archive:	Yes
Site Affectd By Funding Level From PSTIF:	No
General Comments:	02/27/98-JH-Reviewed site visit report from swro. Report indicates graveled area in front of store where system was located and two roll offs full of soil at site. Requested status update from rp. 03/18/98-JH-Reviewed soil removal report, site closed.

UST:

Facility ID:	ST0010869
Region:	SW
Easting:	365433.764
Northing:	4103853.64
Geospatial Data Collected By:	INT_EDELHUBER,Brian
Date GIS Data Collected:	07/31/2014
Lat/Long:	37.0715522 / -94.514040

Tanks:

Owner:

Owner ID:	OW03333
Owner Name:	RETAIL MARKETING CO
Owner Address:	6450 S LEWIS #200 E 200
Owner City,St,Zip:	TULSA, OK 74128
Owner Phone:	7431500
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	1996-11-18 00:00:00
Name of Person Editing Record:	N$DANDJ

SEVEN-ELEVEN #184 (Continued) **U001159590**

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Tank Material:	Steel
Date Tank Last Used:	06/05/1992
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	07/12/2007
Person Adding/Editing Record:	HANSEN, M
Date Of NFA Letter:	03/20/1998
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/05/1992
Firm Closing Tank:	BDAT ENVIRONMENTAL
Date Closure Report Received:	07/16/1992
LockOut Flag:	No
Comments:	FINAL LETTER FOR 1-6000 GAS, 1-10000 GAS.

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	26890
Tank PK:	26890
Compartment Status:	Removed
Capacity:	10152
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1992-06-05 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW03333
Owner Name:	RETAIL MARKETING CO
Owner Address:	6450 S LEWIS #200 E 200
Owner City,St,Zip:	TULSA, OK 74128
Owner Phone:	7431500
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	1996-11-18 00:00:00
Name of Person Editing Record:	N$DANDJ

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Tank Material:	Steel
Date Tank Last Used:	06/05/1992
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	07/12/2007

SEVEN-ELEVEN #184 (Continued) **U001159590**

Person Adding/Editing Record:	HANSEN, M
Date Of NFA Letter:	03/20/1998
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/05/1992
Firm Closing Tank:	BDAT ENVIRONMENTAL
Date Closure Report Received:	07/16/1992
LockOut Flag:	No
Comments:	FINAL LETTER FOR 1-6000 GAS, 1-10000 GAS.

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	26891
Tank PK:	26891
Compartment Status:	Removed
Capacity:	6016
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1992-06-05 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0010869
Tank Id:	1
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0010869
Tank Id:	2
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Count: 0 records.

ORPHAN SUMMARY

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
MO	AIRS	Permit Facility Listing	Department of Natural Resources	06/06/2024	06/06/2024	06/07/2024
MO	ASBESTOS	Asbestos Notification Listing	Department of Natural Resources	06/28/2024	06/28/2024	09/24/2024
MO	AST	Aboveground Petroleum Storage Tanks	Department of Agriculture	08/23/2024	08/26/2024	09/04/2024
MO	AUL	Sites with Controls	Department of Natural Resources	08/01/2024	08/01/2024	08/05/2024
MO	BROWNFIELDS	Brownfields Site List	Department of Natural Resources	08/01/2024	08/01/2024	08/05/2024
MO	CDL	Environmental Emergency Response System	Department of Natural Resources	06/03/2024	06/04/2024	06/07/2024
MO	COAL ASH	Coal Ash Disposal Sites	Department of Natural Resources	01/03/2018	02/01/2018	03/22/2018
MO	DEL SHWS	Registry Sites Withdrawn or Deleted	Department of Natural Resources	07/24/2023	10/03/2023	12/19/2023
MO	DRYCLEANERS	Drycleaners in Missouri Listing	Department of Natural Resources	06/24/2024	06/26/2024	09/17/2024
MO	FIN ASSURANCE 1	Financial Assurance Information Listing	Department of Natural Resources	04/10/2024	05/16/2024	08/13/2024
MO	FIN ASSURANCE 2	Financial Assurance Information Listing	Department of Natural Resources	12/19/2022	02/28/2023	05/17/2023
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	06/30/2023	02/29/2024	05/21/2024
MO	LAST	Leaking Aboveground Storage Tanks	Department of Natural Resources	09/03/2024	09/04/2024	11/14/2024
MO	LUST	Leaking Underground Storage Tanks	Department of Natural Resources	09/03/2024	09/04/2024	11/14/2024
MO	MINES	Industrial Mineral Mines Database	Department of Natural Resources	04/30/2021	07/14/2021	10/07/2021
MO	NPDES	Permitted Facility Listing	Department of Natural Resources	06/21/2024	07/02/2024	07/12/2024
MO	PFAS	PFAS Detections	Department of Natural Resources	07/02/2024	07/02/2024	07/18/2024
MO	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Natural Resources		07/01/2013	01/03/2014
MO	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Natural Resources		07/01/2013	01/15/2014
MO	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Natural Resources		07/01/2013	01/03/2014
MO	RRC	Certified Hazardous Waste Resource Recovery Facilities	Department of Natural Resources	09/30/2020	10/06/2020	12/28/2020
MO	SHWS	Registry of Confirmed Abandoned or Uncontrolled Hazardous Wa	Department of Natural Resources	07/24/2023	10/03/2023	12/19/2023
MO	SMARS	Site Management and Reporting System	Department of Natural Resources	07/02/2024	07/23/2024	10/15/2024
MO	SPILLS	Environmental Response Tracking Database	Department of Natural Resources	06/03/2024	06/04/2024	06/07/2024
MO	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/27/2012	01/03/2013	02/22/2013
MO	SWF/LF	Solid Waste Facility List	Department of Natural Resources	08/19/2024	08/19/2024	11/05/2024
MO	SWRCY	Solid Waste Recycling Facilities	Department of Natural Resources	02/20/2024	02/21/2024	05/10/2024
MO	TANKS	Underground Storage Tank Database	Department of Natural Resources	09/03/2024	09/04/2024	11/14/2024
MO	UIC	Underground Injection Wells Database	Department of Natural Resources	08/12/2024	09/06/2024	11/14/2024
MO	UST	Petroleum Storage Tanks	Department of Natural Resources	09/03/2024	09/04/2024	11/14/2024
MO	VCP	Sites Participating in the Voluntary Cleanup Program	Department of Natural Resources	08/01/2024	08/01/2024	08/05/2024
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/10/2024	09/11/2024	11/19/2024
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	BIOSOLIDS	ICIS-NPDES Biosolids Facility Data	Environmental Protection Agency	10/13/2024	10/16/2024	10/23/2024
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2021	03/09/2023	03/20/2023
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2022	11/27/2023	02/22/2024
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	06/30/2024	07/08/2024	09/26/2024
US	CORRACTS	Corrective Action Report	EPA	06/03/2024	06/07/2024	06/20/2024
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2021	03/09/2022
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	09/25/2024	10/01/2024	10/23/2024
US	E MANIFEST	Hazardous Waste Electronic Manifest System	Environmental Protection Agency	07/24/2023	04/18/2024	06/06/2024

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	06/23/2024	06/28/2024	07/12/2024
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA Watch List	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	06/11/2024	06/17/2024	09/04/2024
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	06/07/2024	06/25/2024	09/19/2024
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	03/15/2024	03/19/2024	06/17/2024
US	FINDS	Facility Index System/Facility Registry System	EPA	08/13/2024	08/20/2024	08/28/2024
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	07/31/2024	08/12/2024	10/09/2024
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	08/13/2024	08/13/2024	10/09/2024
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	03/03/2023	03/03/2023	06/09/2023
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	06/14/2024	06/17/2024	06/24/2024
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	02/07/2024	11/13/2024	11/19/2024
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	05/07/2024	05/30/2024	08/28/2024
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	05/07/2024	05/30/2024	08/28/2024
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	05/07/2024	05/30/2024	08/28/2024
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/11/2024	05/30/2024	08/28/2024
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	05/07/2024	05/30/2024	08/28/2024
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	05/07/2024	05/30/2024	08/28/2024
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	05/07/2024	05/30/2024	08/28/2024
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	05/07/2024	05/30/2024	08/28/2024
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	05/14/2024	05/30/2024	08/28/2024
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	05/14/2024	05/30/2024	08/28/2024
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	05/14/2024	05/30/2024	08/28/2024
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/11/2024	05/30/2024	08/28/2024
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	05/14/2024	05/30/2024	08/28/2024
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	05/14/2024	05/30/2024	08/28/2024
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	05/14/2024	05/30/2024	08/28/2024
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	05/14/2024	05/30/2024	08/28/2024
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	09/25/2024	10/01/2024	10/23/2024
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	09/25/2024	10/01/2024	10/23/2024
US	LUCIS	Land Use Control Information System	Department of the Navy	07/15/2024	07/17/2024	10/09/2024
US	MINES MRDS	Mineral Resources Data System	USGS	08/23/2022	11/22/2022	02/28/2023
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	10/01/2024	10/02/2024	10/09/2024
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/12/2024	10/17/2024	11/19/2024

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	NPL	National Priority List	EPA	09/25/2024	10/01/2024	10/23/2024
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	05/23/2024	07/02/2024	09/26/2024
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	12/16/2016	01/06/2017	03/10/2017
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT	Social Science Environmental Health Research	05/19/2023	04/05/2024	06/06/2024
US	PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	07/01/2024	07/01/2024	07/12/2024
US	PRP	Potentially Responsible Parties	EPA	09/19/2023	10/03/2023	10/19/2023
US	Proposed NPL	Proposed National Priority List Sites	EPA	09/25/2024	10/01/2024	10/23/2024
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	06/03/2024	06/07/2024	06/20/2024
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	06/03/2024	06/07/2024	06/20/2024
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	06/03/2024	06/07/2024	06/20/2024
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	06/03/2024	06/07/2024	06/20/2024
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	06/03/2024	06/07/2024	06/20/2024
US	RMP	Risk Management Plans	Environmental Protection Agency	07/12/2024	07/17/2024	10/09/2024
US	ROD	Records Of Decision	EPA	10/24/2024	11/01/2024	11/19/2024
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	07/30/2021	02/03/2023	02/10/2023
US	SEMS	Superfund Enterprise Management System	EPA	09/25/2024	10/01/2024	10/23/2024
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	09/25/2024	10/01/2024	10/23/2024
US	SSTS	Section 7 Tracking Systems	EPA	07/11/2024	07/11/2024	07/12/2024
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2022	11/13/2023	02/07/2024
US	TSCA	Toxic Substances Control Act	EPA	12/31/2020	06/14/2022	03/24/2023
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	05/08/2024	08/14/2024	08/28/2024
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/10/2024	06/11/2024	09/04/2024
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	05/20/2024	08/19/2024	10/09/2024
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	07/24/2024	08/08/2024	08/15/2024
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	06/10/2024	06/17/2024	09/04/2024
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	05/20/2024	08/19/2024	10/09/2024
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	07/24/2024	08/08/2024	08/15/2024
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/06/2024	08/14/2024	08/15/2024
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/02/2024	08/20/2024	10/09/2024

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UST FINDER	UST Finder Database	Environmental Protection Agency	06/08/2023	10/04/2023	01/18/2024
US	UST FINDER RELEASE	UST Finder Releases Database	Environmental Protecton Agency	06/08/2023	10/31/2023	01/18/2024
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/06/2023	09/13/2023	12/11/2023
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	08/05/2024	08/06/2024	10/25/2024
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	12/31/2019	11/30/2023	12/01/2023
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2020	11/30/2021	02/18/2022
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
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			
MO	State Wetlands	National Wetland Inventory of Missouri	Department of Natural Resources			
US	Topographic Map	Current USGS 7.5 Minute Topographic Map	U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

OLD FREEMAN HOSPITAL
2008 S. SERGEANT AVE.
JOPLIN, MO 64804

TARGET PROPERTY COORDINATES

Latitude (North):	37.069049 - 37° 4' 8.58''
Longitude (West):	94.521276 - 94° 31' 16.59''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	364757.7
UTM Y (Meters):	4103411.2
Elevation:	1051 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	24317498 JOPLIN WEST, MO
Version Date:	2021

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

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

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

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

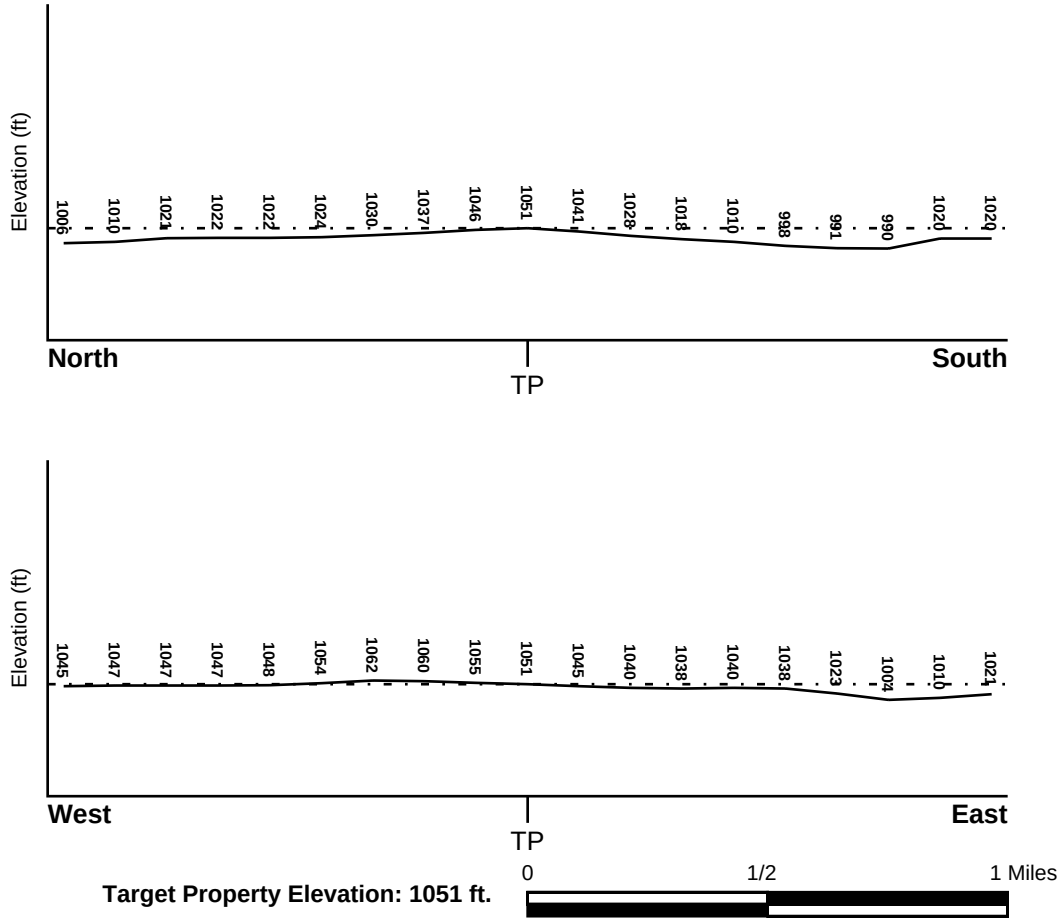
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 1051 ft.

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

Flood Plain Panel at Target Property	FEMA Source Type
29097C0259E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
29097C0258E	FEMA FIRM Flood data
29097C0266E	FEMA FIRM Flood data
29097C0267E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
JOPLIN WEST	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

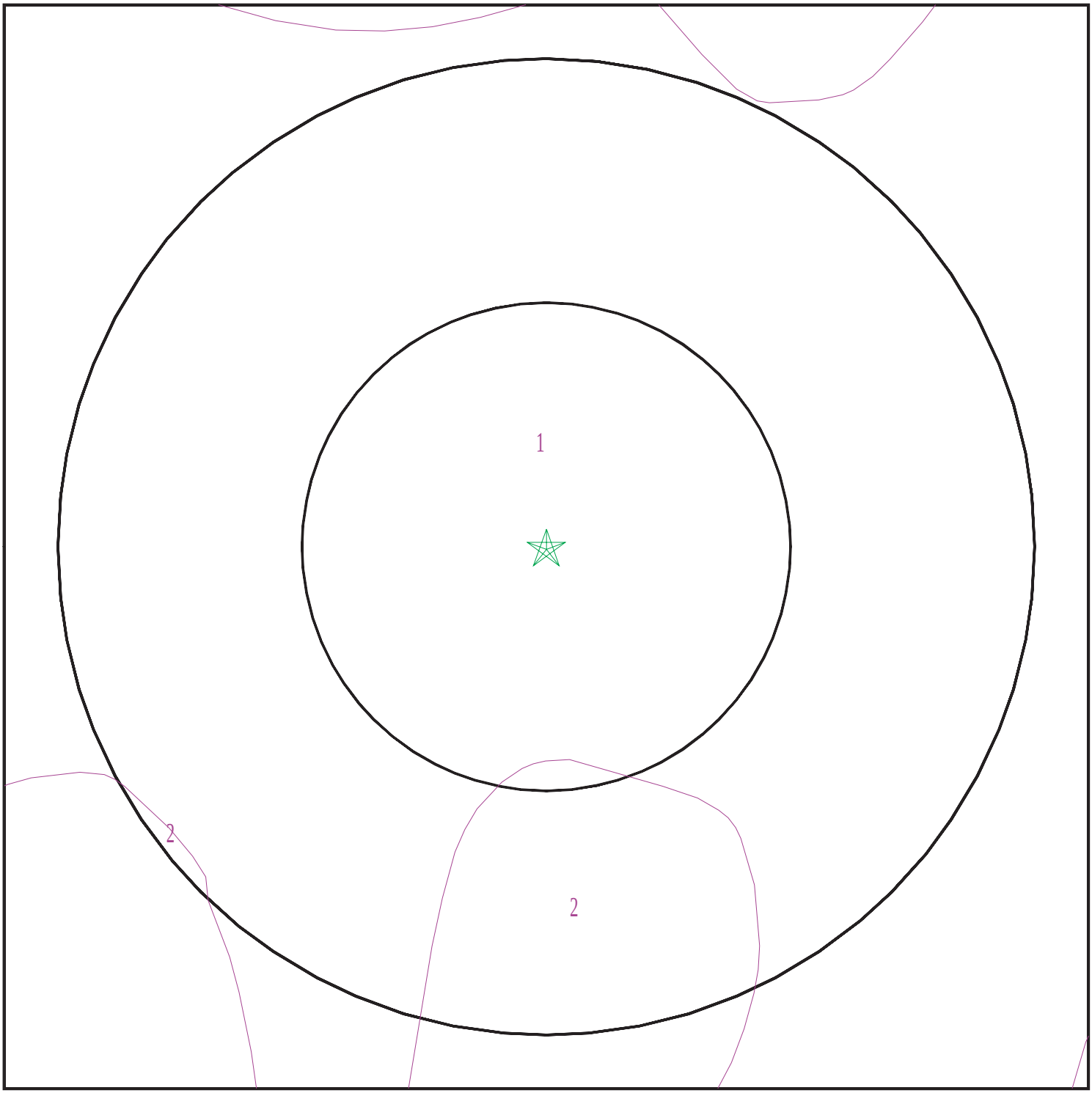
Era:	Paleozoic
System:	Mississippian
Series:	Meramecian Series
Code:	M2 *(decoded above as Era, System & Series)*

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 - 7830457.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Old Freeman Hospital	CLIENT:	Terracon
ADDRESS:	2008 S. Sergeant Ave. Joplin MO 64804	CONTACT:	Mandy Carlson
		INQUIRY #:	7830457.2s
LAT/LONG:	37.069049 / 94.521276	DATE:	November 22, 2024 10:00 am

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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: Eldorado

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: High

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	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 6.5 Min: 5.6
2	7 inches	20 inches	very cobbly silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	33 inches	79 inches	very cobbly clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 6.5 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	20 inches	33 inches	extremely cobbly silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 6.5 Min: 5.6

Soil Map ID: 2

Soil Component Name: Rueter

Soil Surface Texture: very gravelly silt loam

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

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	very gravelly silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5
2	12 inches	42 inches	extremely gravelly silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5
3	42 inches	79 inches	very gravelly clay	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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
A4	USGS40000687177	1/4 - 1/2 Mile WSW
A5	USGS40000687185	1/4 - 1/2 Mile West
6	USGS40000687199	1/4 - 1/2 Mile ENE
9	USGS40000687257	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

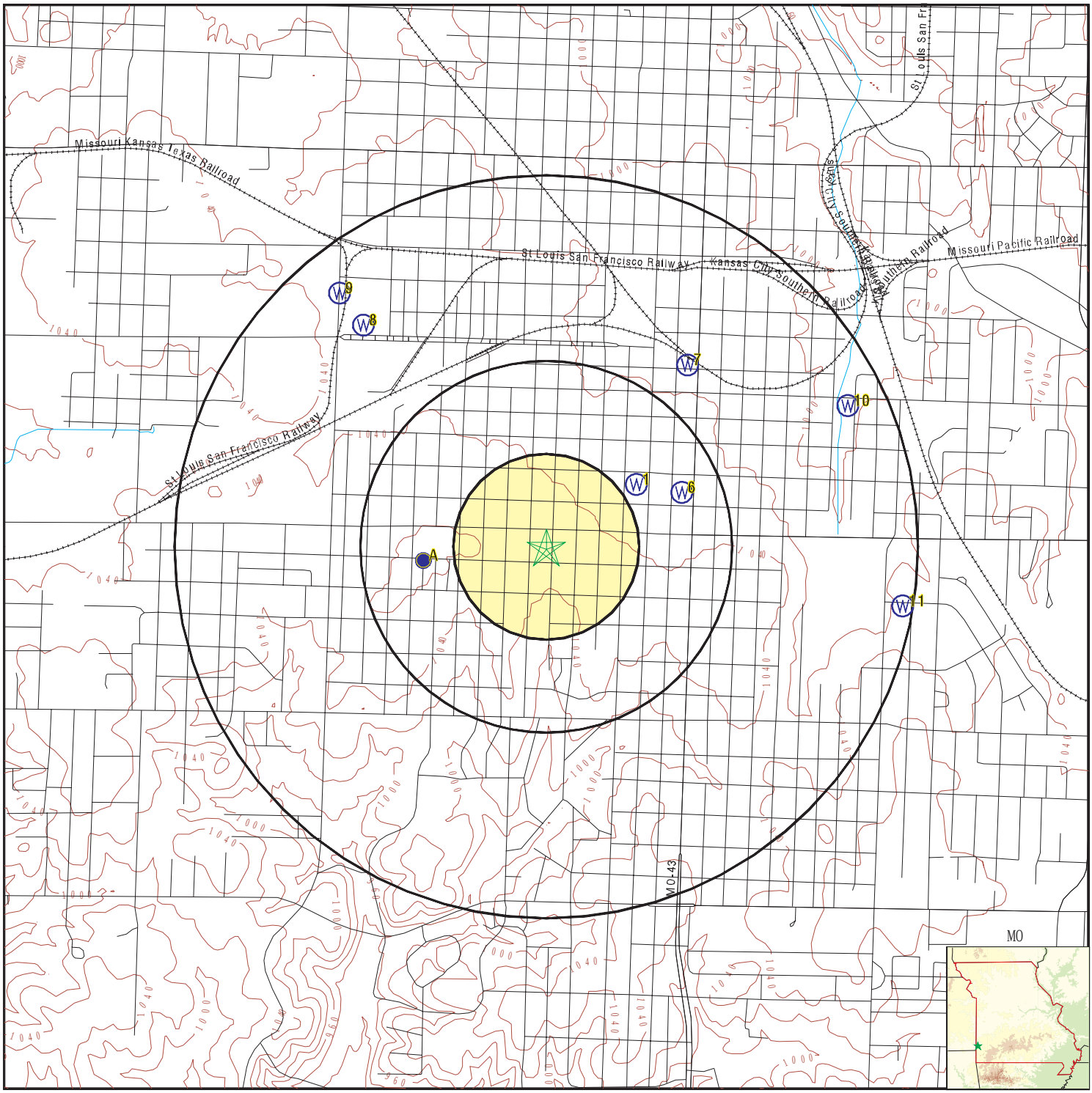
MAP ID	WELL ID	LOCATION FROM TP
A2	MO5010413	1/4 - 1/2 Mile West

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MOLOG3000020473	1/4 - 1/2 Mile NE
A3	MO7000000002323	1/4 - 1/2 Mile West
7	MOLOG3000020512	1/2 - 1 Mile NE
8	MOLOG3000020525	1/2 - 1 Mile NW
10	MOLOG3000020500	1/2 - 1 Mile ENE
11	MOLOG3000020442	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 7830457.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME:	Old Freeman Hospital	CLIENT:	Terracon
ADDRESS:	2008 S. Sergeant Ave. Joplin MO 64804	CONTACT:	Mandy Carlson
		INQUIRY #:	7830457.2s
LAT/LONG:	37.069049 / 94.521276	DATE:	November 22, 2024 10:00 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NE
1/4 - 1/2 Mile
Lower

MO WELLS **MOLOG3000020473**

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0003069	Owner:	Junge Baking Company
Well Type:	Industrial High Capacity Well		
Stratigraphy Log:	Yes	Driller Log:	Yes
Other Log:	No	Samples Retained:	Yes
Elevation (ft):	1030	Total Depth (ft):	990
Depth to Bedrock (ft):	25	SWL After Casing Set:	135
SWL Before Casing Set:	-9999	SWL After Casing Grouting (ft):	895
SWL Before Casing Grouting (ft):	-9999	Water Noted by Driller (ft):	Not Reported
Draw Down (ft):	27	Well Yield (gpm):	75
Surface Formation:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	WARSAW FORMATION		
Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	Not Reported
Drill Date:	19240401	Driller:	Petrichson
Logger:	Hundhausen / McCracken		
Log Date:	Not Reported	Geological Structures:	No
Interval Core Top (ft):	0	Interval Core Bottom (ft):	0
Remarks:	S Of 18Th St, Between Joplin & Main Sts, Joplin - Driller's Log Attached		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0003069.pdf		

A2
West
1/4 - 1/2 Mile
Higher

FRDS PWS **MO5010413**

Epa region:	07	State:	MO
Pwsid:	MO5010413	Pwsname:	MO AMERICAN JOPLIN
Cityserved:	Not Reported	Stateserved:	MO
Zipserved:	Not Reported	Fipscounty:	29097
Status:	Active	Retpopsrvd:	50559
Pwssvcconn:	23269	Psource longname:	Surface_water
Pwstype:	CWS	Owner:	Private
Contact:	BARNHART, MATTHEW	Contactorgname:	BARNHART, MATTHEW
Contactphone:	417-627-3800	Contactaddress1:	2650 E 32ND ST STE 121
Contactaddress2:	Not Reported	Contactcity:	JOPLIN
Contactstate:	MO	Contactzip:	64804-4347
Pwsactivitycode:	A		
Pwsid:	MO5010413	Facid:	101220
Facname:	WELL #9 2401 MARTEN RD	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	MO5010413	Facid:	102670
Facname:	WELL #11 8583 ELAND ST	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	chloramines	Factypecode:	TP
Pwsid:	MO5010413	Facid:	103278

Facname:	WELL # 1 - 2101 S PINCHER	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	other	Trtprocess:	fluoridation
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	ultraviolet radiation
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	chloramines
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	not reported
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	organics removal	Trtprocess:	activated carbon, powdered
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	taste / odor control	Trtprocess:	activated carbon, powdered
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	coagulation
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	organics removal	Trtprocess:	flocculation
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	67219
Facname:	BLENDVILLE PLT - 1118 W 21ST ST		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	sedimentation

Factypecode: TP

Pwsid: MO5010413 Facid: 67219
Facname: BLENDVILLE PLT - 1118 W 21ST ST
Factype: Treatment_plant Facactivitycode: A
Trtobjective: softening (hardness removal)
Trtprocess: lime - soda ash addition Factypecode: TP

Pwsid: MO5010413 Facid: 67219
Facname: BLENDVILLE PLT - 1118 W 21ST ST
Factype: Treatment_plant Facactivitycode: A
Trtobjective: particulate removal Trtprocess: filtration, rapid sand
Factypecode: TP

Pwsid: MO5010413 Facid: 95124
Facname: WELL # 3 - 210 BUCHANAN RD
Factype: Treatment_plant Facactivitycode: A
Trtobjective: other Trtprocess: fluoridation
Factypecode: TP

Pwsid: MO5010413 Facid: 95124
Facname: WELL # 3 - 210 BUCHANAN RD
Factype: Treatment_plant Facactivitycode: A
Trtobjective: disinfection Trtprocess: chloramines
Factypecode: TP

Pwsid: MO5010413 Facid: 95124
Facname: WELL # 3 - 210 BUCHANAN RD
Factype: Treatment_plant Facactivitycode: A
Trtobjective: disinfection Trtprocess: hypochlorination, post
Factypecode: TP

Pwsid: MO5010413 Facid: 95125
Facname: WELL # 4 - 2930 S MISSISSIPPI ST
Factype: Treatment_plant Facactivitycode: A
Trtobjective: other Trtprocess: fluoridation
Factypecode: TP

Pwsid: MO5010413 Facid: 95125
Facname: WELL # 4 - 2930 S MISSISSIPPI ST
Factype: Treatment_plant Facactivitycode: A
Trtobjective: disinfection Trtprocess: chloramines
Factypecode: TP

Pwsid: MO5010413 Facid: 95998
Facname: WELL # 5 - 8000 E ALLIANCE PARKWAY DR
Factype: Treatment_plant Facactivitycode: A
Trtobjective: disinfection Trtprocess: chloramines
Factypecode: TP

Pwsid: MO5010413 Facid: 95999
Facname: WELL # 6 - 1400 REX AVE Factype: Treatment_plant
Facactivitycode: A Trtobjective: other
Trtprocess: fluoridation Factypecode: TP

Pwsid: MO5010413 Facid: 95999
Facname: WELL # 6 - 1400 REX AVE Factype: Treatment_plant
Facactivitycode: A Trtobjective: disinfection
Trtprocess: chloramines Factypecode: TP

Pwsid: MO5010413 Facid: 96000
Facname: WELL # 7 - 1505 LARK RD Factype: Treatment_plant

Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	chloramines	Factypecode:	TP
Pwsid:	MO5010413	Facid:	96001
Facname:	WELL # 8 - 2772 KODIAK RD	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	chloramines	Factypecode:	TP
Pwsid:	MO5010413	Facid:	99141
Facname:	WELL # 10 - 15435 HWY FF TREATMENT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	other	Trtprocess:	fluoridation
Factypecode:	TP		
Pwsid:	MO5010413	Facid:	99141
Facname:	WELL # 10 - 15435 HWY FF TREATMENT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
PWS ID:	MO5010413	PWS name:	JOPLIN
Address:	7TH & JOPLIN STREETS	Care of:	MISSOURI AMERICAN WATER CO.
City:	JOPLIN	State:	MO
Zip:	64801	Owner:	JOPLIN
Source code:	Surface water	Population:	50700
PWS ID:	MO5010413	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	MO AMERICAN JOPLIN
PWS type code:	C	Retail population served:	50700
Contact:	BARNHART, MATTHEW	Contact address:	MISSOURI AMERICAN-JOPLIN DISTRICT
Contact address:	2650 E 32ND ST STE 121	Contact city:	JOPLIN
Contact state:	MO	Contact zip:	64804-4347
Contact telephone:	417-627-3800		
County:	JASPER	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	FILTRATION, SLOW SAND
Population:	50700		
County:	JASPER	Source:	Surface water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, POST
Population:	50700		
County:	JASPER	Source:	Surface water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FILTRATION, RAPID SAND
Population:	50700		
County:	JASPER	Source:	Surface water
Treatment Objective:	SOFTENING (HARDNESS REMOVAL)		
Process:	LIME - SODA ASH ADDITION	Population:	50700
PWS ID:	MO5010413	Activity status:	Active
Date system activated:	8201	Date system deactivated:	Not Reported
Retail population:	00050700	System name:	JOPLIN
System address:	MISSOURI AMERICAN WATER CO.		
System address:	7TH & JOPLIN STREETS	System city:	JOPLIN
System state:	MO	System zip:	64801
County FIPS:	Not Reported	City served:	JOPLIN
Population served:	50,001 - 75,000 Persons	Treatment:	Treated

Latitude:	370503	Longitude:	0943040
Latitude:	370534	Longitude:	0942917
Latitude:	370224	Longitude:	0943201
Latitude:	370407	Longitude:	0943137

State:	MO	Latitude degrees:	37
Latitude minutes:	2	Latitude seconds:	24.0000
Longitude degrees:	94	Longitude minutes:	32
Longitude seconds:	1.0000		

State:	MO	Latitude degrees:	37
Latitude minutes:	4	Latitude seconds:	7.0000
Longitude degrees:	94	Longitude minutes:	31
Longitude seconds:	37.0000		

State:	MO	Latitude degrees:	37
Latitude minutes:	5	Latitude seconds:	34.0000
Longitude degrees:	94	Longitude minutes:	29
Longitude seconds:	17.0000		

Violation id:	308	Orig code:	S
State:	MO	Violation Year:	2008
Contamination code:	0300	Contamination Name:	IESWTR
Violation code:	43		
Violation name:	Single Turbidity Exceed (Enhanced SWTR)		
Rule code:	122	Rule name:	LT1 ESWTR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2008
Cmp edt:	01/31/2008		

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

Violation ID:	9406310	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Nitrate-Nitrite
Violation type:	Monitoring, Regular	Violation start date:	010193
Violation end date:	123193	Violation period (months):	012
Violation awareness date:	Not Reported	Major violator:	Yes
Maximum contaminant level:	Not Reported	Number of required samples:	Not Reported
Number of samples taken:	000	Analysis method:	Not Reported
Analysis result:	Not Reported		

Violation ID:	308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	02/20/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	02/20/2008
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

Violation ID:	308	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	02/09/2011
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	01/10/2008
Enforcement Detail:	St Boil Water Order	Enforcement Category:	Informal

Violation ID:	308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	01/14/2008

Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	01/20/2008
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
PWS name:	MO AMERICAN JOPLIN	Population served:	50700
PWS type code:	C	Violation ID:	308
Contaminant:	0300	Violation type:	43
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	1/10/2008 0:00:00	Enforcement action:	State Boil Water Order
Violation measurement:	Not Reported		
PWS name:	MO AMERICAN JOPLIN	Population served:	50700
PWS type code:	C	Violation ID:	308
Contaminant:	0300	Violation type:	43
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	1/14/2008 0:00:00	Enforcement action:	State Other
Violation measurement:	Not Reported		
PWS name:	MO AMERICAN JOPLIN	Population served:	50700
PWS type code:	C	Violation ID:	308
Contaminant:	0300	Violation type:	43
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	1/20/2008 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		
PWS name:	MO AMERICAN JOPLIN	Population served:	50700
PWS type code:	C	Violation ID:	308
Contaminant:	0300	Violation type:	43
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	2/20/2008 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	MO AMERICAN JOPLIN	Population served:	50700
PWS type code:	C	Violation ID:	308
Contaminant:	0300	Violation type:	43
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	2/20/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

A3
West
1/4 - 1/2 Mile
Higher

MO WELLS **MO7000000002323**

Database:	Missouri Public Drinking Water Wells		
DGLS ID:	100781	LOGMAIN ID:	Not Reported
Well Certification #:	Not Reported	PWSS Name:	Mo American - Joplin
PWSS ID:	5010413	IPWS ID:	MO5010413
Well #:	1	Local Name:	Well #1
Well ID:	10592	Facility Type:	City
Federal Water System Type:	Community	Status:	Active
Drill Date:	1988	Abandoned:	0
Plugged:	0	Material Type:	Consolidated
Formation at Casing Depth:	Jefferson City	Formation at Total Depth:	Eminence
Total Depth:	1255	Ground Elevation:	0
Top Seal Type:	Not Reported	Bottom Seal Type:	Not Reported
Casing Depth:	501	Casing Diameter:	10
Casing Type:	Steel	Casing Elevation:	0
Casing Height:	0	Outer Well Casing Depth:	0

Outer Casing Diameter:	0	Screen Length (ft):	-9999
Screen Size (in):	-9999	Depth to Static Water Level:	235
Max Yield (gal/min):	613	Dynamic Head of Pump:	435
Drawdown:	200	Year of Pump Test:	1988
Pump Type:	Submersible	Pump Manufacturer:	Not Reported
Pump Depth:	610	Pump Capacity:	606
Has Pump Meter:	Not Reported	Has Stand-by Power:	N
VOC detections:	N	Nitrates Detected:	N
Chlorination Used:	N	Filtration Used:	N
GWUDISW:	N	Meets Construction Requirements:	Not Reported
Surface Drainage:	Not Reported	Water System Entry Point ID:	Y
SWIP Wellhead Status:	Verified		

A4
WSW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000687177**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T27N R33W 15BAB	Type:	Well
Description:	Not Reported	HUC:	11070207
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Ozark Plateaus aquifer system		
Formation Type:	Gasconade Dolomite	Aquifer Type:	Not Reported
Construction Date:	1988	Well Depth:	1255
Well Depth Units:	ft	Well Hole Depth:	1255
Well Hole Depth Units:	ft		

A5
West
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000687185**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T27N R33W 15BBA1	Type:	Well
Description:	Not Reported	HUC:	11070207
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Ozark Plateaus aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19880000	Well Depth:	1255
Well Depth Units:	ft	Well Hole Depth:	1255
Well Hole Depth Units:	ft		

6
ENE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000687199**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T27N R33W 10DDA1	Type:	Well
Description:	Not Reported	HUC:	11070207
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Ozark Plateaus aquifer system		

Formation Type:	Roubidoux Formation	Aquifer Type:	Confined multiple aquifer
Construction Date:	19240401	Well Depth:	990
Well Depth Units:	ft	Well Hole Depth:	990
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1924-04-01
Feet below surface:	135	Feet to sea level:	Not Reported
Note:	Not Reported		

7
NE
1/2 - 1 Mile
Lower

MO WELLS **MOLOG3000020512**

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0002834	Owner:	Freeman Foundry Well #1
Well Type:	Industrial High Capacity Well		
Stratigraphy Log:	Yes	Driller Log:	No
Other Log:	No	Samples Retained:	Yes
Elevation (ft):	1015	Total Depth (ft):	909
Depth to Bedrock (ft):	0	SWL After Casing Set:	120
SWL Before Casing Set:	-9999	SWL After Casing Grouting (ft):	895
SWL Before Casing Grouting (ft):	-9999	Water Noted by Driller (ft):	810-890’
Draw Down (ft):	150	Well Yield (gpm):	207
Surface Formation:	WARSAW FORMATION		
First Bedrock Form:	WARSAW FORMATION		
Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	Not Reported
Drill Date:	1901	Driller:	Crossman, H.
Logger:	Hundhausen / McCracken		
Log Date:	Not Reported	Geological Structures:	No
Interval Core Top (ft):	0	Interval Core Bottom (ft):	0
Remarks:	14Th & Joplin Sts; Wsp 195, P. 138.		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0002834.pdf		

8
NW
1/2 - 1 Mile
Lower

MO WELLS **MOLOG3000020525**

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0009220		
Owner:	Junge Baking Company Well #1		
Well Type:	Industrial High Capacity Well		
Stratigraphy Log:	Yes	Driller Log:	No
Other Log:	No	Samples Retained:	Yes
Elevation (ft):	1035	Total Depth (ft):	1245
Depth to Bedrock (ft):	15	SWL After Casing Set:	142
SWL Before Casing Set:	-9999	SWL After Casing Grouting (ft):	893
SWL Before Casing Grouting (ft):	-9999	Water Noted by Driller (ft):	Not Reported
Draw Down (ft):	30	Well Yield (gpm):	198
Surface Formation:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	WARSAW FORMATION		

Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	Not Reported
Drill Date:	19460703	Driller:	Sill & Sill
Logger:	Ostrander, Allen R.		
Log Date:	19460708	Geological Structures:	No
Interval Core Top (ft):	0	Interval Core Bottom (ft):	0
Remarks:	Junge Ave & Maiden Lane		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0009220.pdf		

9
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000687257**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T27N R33W 10BCC1	Type:	Well
Description:	Not Reported	HUC:	11070207
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Ozark Plateaus aquifer system		
Formation Type:	Gunter Sandstone Member of Gasconade Dolomite		
Aquifer Type:	Not Reported	Construction Date:	19460703
Well Depth:	1245	Well Depth Units:	ft
Well Hole Depth:	1245	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1946-07-03
Feet below surface:	142	Feet to sea level:	Not Reported
Note:	Not Reported		

10
ENE
1/2 - 1 Mile
Lower

MO WELLS **MOLOG3000020500**

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	DL01504	Owner:	Missouri Lead & Zinc Co.
Well Type:	Public Well - Community		
Stratigraphy Log:	No	Driller Log:	Yes
Other Log:	No	Samples Retained:	No
Elevation (ft):	993	Total Depth (ft):	1387
Depth to Bedrock (ft):	10	SWL After Casing Set:	110
SWL Before Casing Set:	-9999	SWL After Casing Grouting (ft):	883
SWL Before Casing Grouting (ft):	-9999	Water Noted by Driller (ft):	960’
Draw Down (ft):	-9999	Well Yield (gpm):	125
Surface Formation:	(SEE LOG, NO STRAT IN LOGMAIN)		
First Bedrock Form:	(SEE LOG, NO STRAT IN LOGMAIN)		
Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	Not Reported
Drill Date:	1903	Driller:	Bailey & Waugh
Logger:	DRILLER	Log Date:	Not Reported
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	Driller’s Log Only - No Units Identified		

URL: https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/DL01504.pdf

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11
East
1/2 - 1 Mile
Lower

MO WELLS **MOLOG3000020442**

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	DL01505	Owner:	Lloyd & Guinn'S
Well Type:	Private Well	Stratigraphy Log:	No
Driller Log:	Yes	Other Log:	No
Samples Retained:	No	Elevation (ft):	1020
Total Depth (ft):	385	Depth to Bedrock (ft):	160
SWL After Casing Set:	-9999	SWL Before Casing Set:	-9999
SWL After Casing Grouting (ft):	-9999	SWL Before Casing Grouting (ft):	-9999
Water Noted by Driller (ft):	Not Reported	Draw Down (ft):	-9999
Well Yield (gpm):	-9999	Surface Formation:	SOIL-RESIDUUM
First Bedrock Form:	CANADIAN (IBEXIAN) SERIES UNDIFFERENTIATED		
Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	Not Reported
Drill Date:	Not Reported	Driller:	Not Reported
Logger:	DRILLER	Log Date:	Not Reported
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	2 Mi Se Of Joplin - Driller's Log Only, No Units Identified		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/DL01505.pdf		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
64804	11/19/07	2.4
64804	12/08/08	0.7
64804	01/23/09	2.6
64804	04/10/08	1.2
64804	04/10/08	5.9
64804	04/14/08	0.9
64804	03/05/09	< 0.3
64804	03/09/07	5.2
64804	05/26/08	< 0.3
64804	06/18/04	< 0.3
64804	05/03/08	????
64804	05/10/08	< 0.3

Federal EPA Radon Zone for JASPER 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: 64804

Number of sites tested: 7

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.771 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

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

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

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

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

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

STATE RECORDS

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

Missouri Geologic Well Log Database
Source: Department of Natural Resources
Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Natural Resources
Telephone: 573-368-2143

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

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX F

CREDENTIALS

Charles Rand Raglin

LITTLE ROCK DUE DILIGENCE MANAGER

PROFESSIONAL EXPERIENCE

Rand is the environmental due diligence manager in Terracon's Little Rock, Arkansas office. He is an Environmental Professional (EP) with more than twenty years of experience in the environmental industry. Rand supervises up to five staff level employees in the due diligence department. Rand has been involved in the preparation of hundreds of Phase I Environmental Site Assessments (ESAs) on a variety of sites including industrial, commercial, retail, agricultural, and telecommunications related facilities in ten states. Rand's duties include business development, management, and supervision of due diligence projects throughout the Midwest.

Rand has managed national contracts for Phase I ESA services in multiple states including two large telecommunication clients, development companies, and lending institutions. He has also developed and managed numerous Phase I ESA portfolios for local clients. Additional project experience includes Phase II Environmental Site Assessments, remediation oversight, asbestos and lead-based paint inspections, underground storage tank removals, petroleum pipeline release investigations, lab packing services, NEPA, and natural resource evaluations.

PROJECT EXPERIENCE

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT – SAUGET, ILLINOIS
Evaluated the liability for potential purchaser of a site that was surounded by an active superfund site.

RISK ASSESSMENT – FENTON, MISSOURI
Performed wipe and soil sampling to assess potential risk for lead exposure.

REMEDIATION CONSTRUCTION OVERSIGHT
Performed oversight of petroleum-impacted soils during a redevelopment project on a former automobile dealership property.

REMEDIATION DESIGN – SAINT LOUIS, MISSOURI
Performed oversight of removal of two heating oil tanks formerly in operation at a commercial site in the city of Saint Louis.

DUE DILIGENCE SERVICES-RETAIL/COMMERCIAL
Project management, field assessment, and report preparation for numerous Phase I ESAs, Phase II ESAs, and Limited Site Investigations (LSIs) predominantly in Missouri, Kansas, Iowa, and Illinois. Properties assessed range from undeveloped sites to active industrial facilities. Provide senior level review of these reports and mentor staff undergoing training in assessment processes.

EDUCATION

Bachelor of Science, Biological Sciences, 1996, Southern Illinois University

Associate of Arts, 1993, John A. Logan College – Carterville, Illinois

CERTIFICATIONS

40 Hour OSHA Hazardous Waste Operations Training

Missouri - AHERA-Accredited Asbestos Building Inspector #7017032700MOII6218

Illinois Licensed Asbestos Inspector #100-10552

Missouri Well Driller Permit #003584 PM

Wetland Delineation Training Completion

WORK HISTORY

Terracon, Inc., Due Diligence Manager, January 2008-Present

Terracon, Inc., Project Manager, November 2000- January 2008

Terracon, Inc., Environmental Scientist, May 1998 - 2000

St. Francois County Heath Center Environmental Public Health Specialist - 1997 – 1998

PROJECT EXPERIENCE (continued)

DUE DILIGENCE SERVICES-TELECOMMUNICATIONS
Managed numerous Phase I ESAs, Transaction Screens, NEPA Screen Surveys, and Desktop Reviews for two telecommunications company build-outs in the St. Louis Region. Conducted NEPA Reviews for existing and proposed communications towers in multiple states. Responsible for field work, contact with federal, state, and local government agencies, coordination of Cultural Resource Investigation for historical preservation clearance, and report writing and review.

ASBESTOS SAMPLING SERVICES-COMMERCIAL/RETAIL, EDUCATIONAL FACILITIES
Managed NESHAP, AHERA, and asbestos inspections in numerous residential, educational, commercial and industrial facilities in Missouri and Illinois. Duties include proposal preparation, project assignment, inspection services, and report writing.

WETLANDS/404 AND 401 PERMITTING-RETAIL COMMERCIAL DEVELOPMENT
Conducted numerous wetland delineations in Missouri and Illinois. Projects included the proposed development of a wind farm in northeast Illinois. The wind farm project included approximately 130 turbine locations spread across approximately 22,000-acres located in northeast Illinois. Rand has also conducted wetland delineations for several big box store projects and a proposed pipeline river crossing located in St. Louis area.

Rand's experience also includes preparation of documentation for submittal to the U.S. Army Corps of Engineers and Illinois Environmental Protection Agency for Wetland and Water Quality permitting.

BIOLOGICAL ASSESSMENT-RETAIL COMMERCIAL DEVELOPMENT
Coordinated habitat and species surveys for two endangered snake species on a site proposed for development in southern Illinois. Completed Species Conservation Plan and Incidental Take Application for submittal to the Illinois Department of Natural Resources.

Mandy Carlson
Staff Scientist

PROFESSIONAL EXPERIENCE

Ms. Carlson is a Staff Scientist in Terracon's Springfield, MO office. Ms. Carlson conducts Phase I Environmental Site Assessments (ESAs), limited site investigations (LSI), industrial hygiene services (IH) (e.g., air monitoring and noise), asbestos and lead inspections and limited environmental compliance assessments. Prepares risk assessments, and technical documents including proposals, reports and regulatory agency correspondence.

Asbestos Inspections
Ms. Carlson has conducted asbestos inspections and sampling meeting the AHERA and/or NESHAP protocols for office buildings, commercial developments, restaurants, and schools.

Lead Inspections
Ms. Carlson has conducted lead inspections and sampling for multi-family residential structures, property owners and schools, including sampling of paint-chips, and soil. Ms. Carlson has also conducted lead inspections using an X-Ray Fluorescence (XRF) device.

Phase I Environmental Site Assessments (ESAs)
Completed Phase I ESAs of various commercial, retail, residential, industrial, agricultural, and undeveloped properties throughout Missouri, Kansas, Arkansas, Nebraska, and Illinois.

Industrial Hygiene
Ms. Carlson has conducted industrial hygiene services, including air sampling and noise. Prepares reports following OSHA and ACGIH guidelines and reporting limits, risk assessments and notification letters.

Environmental Compliance
Ms. Carlson has performed stormwater sampling in general accordance with operating permits for industrial and commercial properties in Missouri. Performed compliance inspections relative to hazardous waste generators in Missouri.

WORK EXPERIENCE

Terracon Consultants
Staff Scientist
2022 to present

Springfield Public Schools
Head Custodian
2007 to 2022

EDUCATION

Bachelor of Science, Biology
Drury University, Springfield, MO

Associate of Arts, General, Ozarks Technical Community College, Springfield, MO

CERTIFICATIONS

Lead Inspector – MO

Certified Asbestos Inspector – MO, OK, AR

AHERA, Asbestos Inspector – KS

APPENDIX G

DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining). Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g., California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable. Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-21 as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority) , with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report."
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment

Description of Selected General Terms and Acronyms

Term/Acronym	Description
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-21 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

Description of Selected General Terms and Acronyms

Term/Acronym	Description
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act

Description of Selected General Terms and Acronyms

Term/Acronym	Description
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor “action level” concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal (‘cradle to grave”). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
RCRA CORRACTS/ TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/ TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-21 as 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons

Description of Selected General Terms and Acronyms

Term/Acronym	Description
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-21, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Wetlands	Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.