LEE'S SUMMIT FIRE STATION 1

FEASIBILITY STUDY

Lee's Summit, MO
May 2024

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Acknowledgements

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Fire Chief, Mike Snider
Deputy Chief, Brian Austerman
Assistant Chief, Kevin McCaw
Assistant Chief, Arby Todd

Project Manager - CBS, Sharon Bloom
Facilities Manager, Brian Page

Feasibility Study Team Members

The following companies provided their expertise in the feasibility study through assessment of the existing building, review of testing and reports, and understanding the space programming needs of the Fire Department for the future use of Fire Station #1. The information they provided is included in this study.

McClure
Civil Engineering

Leigh + O'Kane
Structural Engineering

PKMR Engineers
Mechanical, Electrical, and Plumbing Engineering

Newkirk Novak Construction Partners
Construction Manager at Risk
contracted directly through the City of Lee's Summit

Executive Summary

WSKF, Inc. (dba WSKF Architects) was requested to complete a Feasibility Study of Fire Station 1 for the Lee's Summit Fire Department. The goal of the Study is to assess the existing facility conditions of the station and offer recommendations for remodel or rebuild by determining which option made the most sense financially as well as operationally.

With fire administration moving into a new facility and the station having not been renovated since the early 2000's the state of the building came into question. The City of Lee's Summit and the Lee's Summit Fire Department determined a Feasibility Study would provide the best path forward.

While feasibility is easy for people to understand when it comes to the building's physical condition, it is not so easy to determine how the station functions operationally for the fire department. Throughout the Study WSKF and our consultants will be thinking about best practices for fire station design while reviewing the existing fire station. The following areas are all part of how the fire station functions operationally and were assessed as part of the Study; 1) Safety, Health & Wellness, 2) Code Compliance, and 3) Operational Deficiencies (building conditions that affect fire service performance; short-term and long-term).

Space programming was completed through discussions with the City and Fire Department on needs for the future facility and an on-site conditions assessment of the existing facility was completed as well. The conditions assessment involved architectural and engineering review with in-depth investigation of existing building systems. Drawing review of the existing building plans from the original build and renovation work that occurred in the early 2000's was also part of the study process.

Additionally, WSKF retained Terracon to provide a Phase 1 Environmental Study, Hazardous Materials Testing (asbestos and lead), UST Removal Oversight & Sampling (not completed yet) and a Geotechnical Report. WSKF was instructed by the city to hold off on the UST Removal Oversight & Sampling until we understand the plan moving forward. McClure provided surveying services for the site and Coffelt Land Title Inc. provided a title report for the property.

As with any such study the conditions assessed and the recommendations offered are greatly dependent upon the firm and individuals completing this work. WSKF Architects is a company that was founded in 1968 and just completed our 55th year of business operations. While our history of services includes a wide range of facility types, one of our focuses over the last 30 years has been public safety; fire, police, EMS and Dispatch. WSKF currently is working from South Dakota to Oklahoma and into Illinois and Georgia on fire station projects. We recently reached $180 million in project facility delivery and we are currently contracted for over $50 million in future facility services.

After the space programming and conditions assessments were complete WSKF created conceptual design options for renovation and new construction. After review and discussions with the City and Fire Department, revisions were made to the options. WSKF then met with Newkirk Novak, the City's selected Construction Manager at Risk to walk through the conceptual design options and what each would include. Construction costs and materials of Stations 3, 4, & 5 were discussed for comparison purposes.

Once all of this information was gathered from the previous steps, our goal was to create an easy to digest summary document, this Study, to help the City and Fire Department make an informed decision on which path forward would make the most sense for both the City and the Fire Department.

To this end and through our professional support, the City will determine which option makes sense; 1) remain in the current building and renovate, 2) complete a full demolition of the existing building and rebuild on the current site, or 3) complete a full demolition of the existing building, acquire the two properties to the north of the station, and rebuild the fire station on the three combined sites. Note: It is understood that the third option noted may not be feasible but WSKF was tasked to look at the site and surrounding area to determine the possibilities for a future fire station on the existing site.

Station 1 was constructed in 1974, approximately 50 years ago. Station 1 has served as the fire headquarters for the majority of its life. Station 1 was originally built to serve as a civil defense facility. Generally, fire stations are constructed in specific locations; locations to strategically serve the geographic area of the station. As city's develop, the station location requirements can sometime change. With Station 1 being located downtown there is minimal concern with its current location. When Station 1 was constructed, the population of Lee's Summit was approximately 16,000[1]. The current population of Lee's Summit is approximately 106,031[2]. Lee's Summit has been one of the fastest growing communities in Missouri.

A brief overview of the station and site are as follows:

- Site Area – 40,946 SF or 0.94 acres
- Building Area – 25,170 SF
- Building Construction – Precast elements for the walls, floors, and roof structure. The precast elements are composed of double tee sections, inverted tee beam girders, precast panels, and precast columns
- Current Design – 4 drive-thru apparatus bays, 11 bunks, dayroom, kitchen, dining room, 8 offices, reception, conference room, training room, fire dispatch and storage/support space

This study goes into detail to provide the City of Lee's Summit and Lee's Summit Fire Department with the knowledge to make an informed decision about the future of Station 1. Below is a brief overview of the study, our findings, and the design teams views on how we'd suggest the City and Fire Department proceed.

The existing structure does not meet the building code seismic requirements for essential facilities. The structure would need to be greatly modified to bring it up to code including replacing all exterior concrete walls as well as the demising wall between the Apparatus Bays and Living Quarters/Office and replace them with shear walls as required by code. This would require all of the brick and cast stone exterior finishes to also be removed. The Apparatus Bays slab would need to be removed due to its poor condition but also to properly connect the foundation with tie-beams between all columns that are current on drilled piers to meet building code requirements.

The mechanical, plumbing, and electrical systems in the building are also extremely worn and past their useful life. All MEP systems should be completely removed and replaced. A few VRF heat pumps can be salvaged as they are only a few years old. Many of these MEP systems are costing the City a great deal in maintenance and repair costs to keep the systems in working condition every month due to their age and poor condition.

[1] https://mcdc.missouri.edu/population-estimates/historical/cities1900-1990.pdf
[2] https://cityofls.net/city-of-lees-summit/demographics-stats

While all of the physical attributes of the existing station are important we must not forget that the building design should not hinder the overall functionality of the fire station. Fire stations have changed immensely over the past 50 years and this is something that also must be considered. To that end, the Fire Department's future space requirements for the building (Living Quarters/Offices) will require the entire interior to be demolished or taken down to the concrete structure as the new space requirements are very different from the existing building's layout. Currently the entire first floor is administration offices, and conference rooms while the second floor is Living Quarters. With the relocation of administration to another location, the first floor will now be dedicated to Living Quarters including Kitchen, Dayroom, Dining, etc. while the second floor will be primarily bunk rooms and restrooms for the crews.

Individual restrooms for each bunk are now standard practice for the Lee's Summit Fire Department as provided in the two most recently constructed stations; 4 and 5. The entire layout of the second floor will need to be redesigned to accommodate this requirement. Locating plumbing for each new bunk restroom is also a concern for the design team. It will be extremely challenging to locate plumbing piping without hitting one of the structural concrete tees since individual restrooms will be located over the entirety of the second floor.

Selective demolition would be required if renovation as noted was desired. This type of building demolition is not inexpensive and is very time intensive. Due to the age of the building both asbestos and lead have been found in the facility so these hazardous materials need to be properly remediated and disposed of or handled appropriately prior to any other work occurring. Due to this, not only is renovation more expensive in this instance but it will also require a longer construction schedule to complete all of the necessary steps of demolition and renovation.

While it is possible to repair and update the existing facilities, there is the question; is it prudent? In order to answer this question, it is necessary to consider a variety of items. Can the existing facility be modified to support the needs of the Lee's Summit Fire Department for the next 50 years as it has over the past 50 years? Can the existing facility structure withstand the requirements of today's building codes for essential facilities? Fire stations have changed immensely over the past 50 years and this is something that must be considered. While all of the physical attributes of the existing station are important we must not forget that the building design should not hinder the operations or overall functionality of the fire station.

The physical building deficiencies, code non-compliance, and operational deficiencies are well-documented in the following narratives and concept budgets. As noted above, the question of prudent investment in facility renovations is an overarching consideration; should the City continue to invest in the existing Station 1 building or would it be best use of taxpayer dollars to replace the station?

While Station 1 has some inherent deficiencies that can be resolved, there are many deficiencies that cannot be resolved through renovation of the existing facility. Functionality and operations of the station will be forfeited if the deficiencies are not remediated appropriately. Given all of the research, discussions, and observations throughout this Study, we do not believe it is prudent or feasible to continue investing in Station 1 through renovation and the City of Lee's Summit and Lee's Summit Fire Department should plan on constructing a new facility to replace it. The following sections within this study break down all of the areas that were reviewed and provide additional information as to the reasoning of our recommendation for replacement in lieu of renovation.

Study Process

The Study was completed over a 4-month time period. The Study "kickoff" began in late January 2024 and was completed in April 2024. During the study of Station 1, WSKF completed both on-site survey work and collaboration with the Fire Department to both confirm survey extent and detail as well as confirm identified deficiencies.

The study process began with discussions with Fire Administration and City staff. Additionally, some discussions were completed with on-duty crew members as they were available. To confirm the future needs for the Fire Department a space programming exercise took place prior to the on-site conditions assessment so that the design team understood the requirements for the new fire station prior to observing the facility.

The on-site survey work was completed with photographs of interior and exterior conditions, field measurements as well as some internet investigation. The purpose of the photographs was to document general conditions as well document specific conditions that were observed as deficient.

As it is difficult to fully understand each facility's operations, there were subsequent meetings to discuss operations and potential areas of improvement. While operations do slightly vary from department to department, daily fire operations are generally the same. The number of pieces of apparatus and crew will vary, but the daily tasks to be completed by each department are typically comparable. However, there are variables between departments that range from training to fitness to decontamination protocols, for example, depending on the department's facilities, operations, and resources.

It is important to benchmark facility requirements based on both experience and standards. For experience, facility requirement considerations would include such things as; 1) apparatus turning radii, 2) adequate space requirements for Living Quarters, and 3) equipment needs. For standards, references to National Fire Protection Association (NFPA), International Building Code (IBC), and American Society of Civil Engineers (ASCE) are used. There are also voluntary benchmarks for fire department performance that are available from Center for Public Safety Excellence (CPSE).

Additionally, there are emerging practices and protocols for fire departments that are, generally, in response to trends in the fire service industry regarding health and wellness. These practices and protocols center on firefighter health and wellness. National Institute of Occupational Safety and Health (NIOSH) recently completed two studies focused on firefighter cancer and concluded that firefighters face a 9 percent increase in cancer diagnoses, and a 14 percent increase in cancer-related deaths compared to the general population in the United States[3]. As a result of this Study, the National Firefighter Registry (NFR) for Cancer was set up for firefighters that will track links between their workplace exposure and cancer[4]. Per the registry's website, "this registry is the largest effort ever undertaken to understand and reduce risk of cancer among U.S. firefighters."

Given these emerging trends and the results from the studies, it seems only prudent that design in response to such should be considered for this study. Generally, the study incorporates current best practice recommendations that are aimed at reducing or mitigating risks to firefighter health and

[3] Findings from a Study of Cancer among U.S. Fire Fighter, CDC Workplace Safety & Health, NIOSH
[4] H.R. 931. Firefighter Cancer Registry Act of 2018

wellness. As the study of firefighter health and wellness continues to develop there will likely be other recommendations for addressing risks. The current efforts to reduce risks range from the design of firefighter gear to fire apparatus to fire stations. There is no one component to address all risks as all elements need to be considered as a collaborative effort to address risks.

Sleep deprivation and overall mental health have come into the spotlight recently for firefighters as well. These two health issues can greatly affect a firefighter's overall health and their ability to provide the best possible service at events. If a firefighter is sleep deprived he or she is not going to be as effective and clear minded as one who has had an adequate amount of sleep. Science Alliance and the National Development & Research Institutes, Inc. (NDRI-USA) are two resources that provide great information on firefighter health and are constantly looking at ways to improve firefighter health and wellness.

Along the same lines, the Missouri Senate passed SB 57 which requires mental health screenings every three to five years for all public safety personnel. This bill also includes "988 Public Safety Fund" to be used for the "purposes of providing services for peace officers to assist in coping with stress and potential psychological trauma resulting from a response to a critical incident or emotionally difficult event." This shows the State of Missouri understands the importance of first responders' mental health in our state.

WSKF Architects is on the forefront of these new health and wellness topics and it is our intent to keep all building occupants as healthy as possible. Everyone knows a firefighter has an extremely hazardous job but we as designers are doing everything we can through fire station design to keep the firefighters as healthy as possible while they are on duty through good building design.

Space Programming

Prior to the conditions assessment of the existing structure a space programming exercise occurred to determine the fire department's future needs for the facility with the relocation of fire administration off-site. The required space requirements need to be studied to confirm if the existing building is adequate to serve the future needs of the fire department. This exercise will also determine if the existing building layout can effectively meet the future needs of the fire department.

WSKF Architects assessed the Fire Department's space needs for the future based on best practices, national standards, and interviews with department leadership and staff.

The space programming is broken down into five sections. The five sections include:

A. Lobby, Administration, & Support Services
B. Living Quarters
C. Apparatus Bays
D. Decontamination Protocol
E. Site

Each section is then broken down into the individual spaces or rooms that are needed for a well-functioning fire station. WSKF brings their knowledge of past fire station design work to further discussions with thoughts that the fire department may not have even considered. This includes a list of all of the different types of spaces or rooms that WSKF has seen in other fire stations that they have designed for other departments around the nation. Many times, this list can spark discussion within a fire department to determine if there is an improved and more efficient way for their station to function operationally.

The discussion that leads the design committee through the space programming exercise is best led by a design team that has an expertise in designing fire stations so that the correct questions are asked of the design committee to help the committee think outside the box on how the new station should be organized and how it should meet their specific needs. The design team gathers information from the design committee including staff and crew goals and needs.

Each room that the design committee wants to include in their future station is then discussed in deeper detail so that the design team can determine what size the room needs to be related to use, number of occupants, and equipment for the space to function appropriately. Square footage of each room is determined by WSKF based on design best practices and meeting the needs of the crews.

Each section (A – D noted above) is then totaled and a grossing factor is added to the total to account for exterior and interior walls, corridors, etc. The future space needs for Station 1 include 24,984 SF.

For comparison purposes, the existing Station #1 is approximately:

Lower Level:	5,677 SF
First Floor:	13,229 SF
Second Floor:	6,263 SF
TOTAL:	**25,169 SF**

Here are the square footage results of the space programming exercise:

Lower Level:	3,100 SF
First Floor:	16,465 SF
Second Floor:	5,419 SF
TOTAL:	**24,984 SF**

While it may seem as though the new spaces will fit nicely in the existing facility that isn't the case here. More space is shown in the future needs on the first floor than what is currently available in the existing building. As part of the space programming exercise WSKF located each room on the correct floor (lower level, first, or second) where it should be placed using input from the design committee as well as fire station design standards. Some spaces were moved to the lower level although they wanted to reside on the first floor to help reduce the amount of square footage on the first floor due to the overall size of the existing site. Spaces that require less natural light or that were noisy spaces such as fitness were moved to the lower level.

As noted, when comparing where the existing square footage lies vs. where we need the square footage for the future station there are some misalignments. We need less space on the Lower Level, more space on the First Floor, and less on the Second Floor. This shows us that additions to the existing building, if the existing building is to remain, would be needed to meet the needs of the future crews. The biggest driver of this is the number of apparatus planned to be housed at the new facility. To provide enough bay space a smaller Auxiliary Bay has been proposed to house Chief and Shift Inspector vehicles. Providing a smaller bay for these vehicles makes more financial sense than adding a fifth full size bay to the building.

Another concern is that there are a lot of apparatus bay support spaces that need to be added to the facility that were not part of a fire station 50 years ago. Much this function occurs in the Apparatus Bays currently but this does not align with best practices in fire station design. The Apparatus Bays should be clear and free of all equipment so the crews can get to events as quickly as possible. Removing some of these pieces of equipment from the bays is also due to the health and wellness requirements of locating equipment out of the highest hazard spaces of the fire station.

The layout of the current station is not conducive to these new apparatus bay support spaces. Fire Administration staff told us that they recently completed a study to determine if an extractor could be installed on the existing First Floor of the station. As there wasn't space the Apparatus Bay floor they looked at locating the unit adjacent to the bays in the Living Quarters/Office portion of the building adjacent to the Apparatus Bays. They were told through the study that this wasn't viable as the building structure was not capable of supporting the extractor. An addition would need to be added onto the south side of the building to house the extractor as well as many other apparatus bay support needs. All of these support spaces are required spaces in today's fire stations although they were not common practice in the early 1970's.

For the full Space Programming Document refer to Appendix A.

Conditions Assessment

The purpose of this section of the Feasibility Study is to document the physical condition and performance of existing Fire Station 1. This information provides necessary data to allow the City of Lee's Summit and Lee's Summit Fire Department to understand concerns as determined by the design team. While there are sometimes options to resolve deficiencies, the Study attempts to look at these items as a whole since the goal is to determine if renovation or new construction is the best option for Station 1. Not all deficiencies are able to be resolved with the current Fire Station 1. Additionally, there has been no attempt to prioritize deficiencies at this time.

There are two components to the assessment in this Study:

An on-site Physical Conditions Assessment of the building and site was performed on Wednesday, February 7, 2024. This assessment was performed to determine safety concerns, code issues, deficiencies in building systems, structure and components.

Some of the key ways the facility's physical condition will be assessed include:

1) Identifying Deficiencies: The condition assessment will help identify any existing or potential deficiencies in the building's structure, systems (HVAC, plumbing, electrical, etc.), and components such as the roof, walls, floors, etc.
2) Compliance & Risk Management: There are specific standards that must be followed in fire station design such as NFPA standards. This study elaborates on some of those standards which the current station is deficient.

A Functional Conditions Assessment of the building and site was performed following the on-site assessment through visual observations and discussions with key city and fire personnel. The purpose of this portion of the assessment is to determine how the existing building conditions affect staff operations and the ability to appropriately serve the community. This assessment also examined how the current operations and workflows compare to current recommended best practices in the fire industry.

Some of the key ways the facility's functional condition will be assessed include:

1) Best Practices in Fire Station Design
2) Discussions with Fire Department Staff
3) Discussions with City Maintenance Staff

Understanding the condition of the building will help the City to evaluate it for the purposes of determining if the building should be renovated or replaced as we move into the design and construction of Fire Station 1. Overall, building condition assessments play a crucial role in ensuring the safety, longevity, and efficient operation of buildings while supporting informed decision-making by stakeholders.

Building Description

1. History: The building was built in 1974 using precast double tee construction.
    a. The exterior of the building was remodeled in 2004/2005 adding brick and cast stone to the exterior facades.

2. Use History
    a. Past Use: Civil Defense Facility
    b. Current Use: Fire Station, Fire Headquarters, and FD Dispatch (secondary PSAP)
    c. Future Use: Stand-alone Fire Station
3. Location: 207 SE Douglas St, Lee's Summit, MO 64063
4. Size: 25,170 SF
    a. Due to the exterior façade reskinning work in 2004/2005 the exterior wall takes up a lot of square footage. The above noted square footage is a gross square foot total which includes the entire building to the face of the exterior wall.
    b. Floors: There are three levels: a lower level, first floor, and second floor; each level is approximately 5,500 sf. The Apparatus Bays, also on the first-floor account for approximately 7,000 sf.
        i. Lower Level: This level houses E911 facilities, a large meeting space, and various mechanical/building support spaces.
        ii. First Floor (ground floor): This level comprises of fire department offices with both administrative and station functionality, a conference room, and various storage spaces for FD gear, EMS supplies, technology etc.
        iii. Second Floor: This level houses the on-duty station crews, with some crew offices, dayroom, kitchen, dining, laundry, fitness and individual sleeping bunks. Restrooms for crews on this level are shared occupancy men's and women's style restrooms that accommodate multiple users at one time with toilets, sinks, and showers.
5. Building Orientation: The building is oriented southwest towards Douglas Street with apparatus returning to the station at the rear alley or through the City Hall parking lot. The rear ramp of the Apparatus Bays is very steep at 8° or 14%, more than twice the recommended slope for large apparatus.
6. Site Area: 40,946 SF or 0.94 acres

Building Exterior

1. Exterior Walls

a. The exterior walls are loadbearing concrete double tee structure with a metal stud infill walls with a brick and cast stone facade added during renovation in the early 2000's.
b. Generally, the brick appears to be in good condition, however some localized brick spalling was observed in the exterior lower level stairwell as well as at grade along the southeast corner of the building. One possible cause could be the use of salt or ice melt in these areas.
c. Some cracking of the brick mortar was observed on the southwest corner of the vestibule.
d. The cast stone sills, lintels, and fascia trim show abundant cracking, with more severe cracking as well as some spalling observed on the fascia trim.
e. There is very little exterior insulation in the building walls, and staff noted that the temperatures in the building were very low during a recent cold spell, with the new mechanical system unable to maintain normal temperatures. Space heaters were used in bunk rooms.

f. The paint on the concrete fascia is in poor condition and is peeling with large areas without paint on the south side of the building.

2. Windows & Doors
    a. Windows, storefront, and exterior doors all seem to be in good condition.
    b. There is damage to one of the overhead doors on the front of the station.
3. Roof
    a. The roof is in poor condition overall.
    b. The TPO membrane is approximately 23 years old and is past it's useful life.
        i. The City of Lee's Summit was quoted $450K to replace the roof and cap flashing Summer of 2022, with price escalation this replacement cost is likely over $500K in today's costs.
    b. There are ongoing issues with the lightweight concrete underneath the roofing membrane per City staff.
        i. When walking on the roof it was apparent that the roof system is failing. While not visible, the roof appeared to have structure below the membrane with different rates of deterioration as some of members when stepped on crush with the weight of a person while others remained intact.
    c. There are large areas of ponding water on the roof, many patches and repairs to the roof, and areas of pitting/erosion on the roof.
    d. The roof membrane extends up onto the parapet and is held by a termination bar mounted to the top surface of the parapet. This is not a recommended installation, as this joint should be covered by a counterflashing or cap flashing.

Building Interior

1. Due to the fact that this building could potentially be renovated from a headquarters station to a standalone fire station and due to the age of the building and date of the last interior renovation in the early 2000's, it is our intent for all new finishes to be used in the facility. The majority of the interior finishes are past their useful life and should be replaced.
2. Very few, if any, interior walls will be able to be salvaged during the renovation work due the differences between the existing building needs and the future needs as a standalone fire station. None of the interior walls are loadbearing with the nature of the building's concrete structure.
3. The concrete floor in the Apparatus Bay is in poor condition and should be replaced due to the cracking, spalling, and deterioration around the trench drains.
4. Many surfaces in the Apparatus Bay have paint peeling. The ceiling, walls, and roof drain piping all have some level of peeling paint. The ceiling has some areas of darker peeling paint from where old heaters used to be located prior to the radiant tube heaters currently in the bays.

Vertical Circulation

1. Stairs
    a. The interior stair that connects all three levels of the station does not meet current code. The stair does not exit directly to the exterior; exiting occurs through intervening spaces some of which are of a higher hazard.

   b. The exterior stair from the lower level to the parking lot is in poor condition and is a slipping hazard due to ice in the winter and a water intrusion issue year-round.

2. Elevator
   a. There is no elevator in the building as elevators were not required in 1974 because there were no ADA standards at the time of construction.

HVAC

1. A new VRF system, installed in 2021, serves the Living Quarters and Office area. The VRF system was noted to not keep up with all the heating needs in the winter.
2. A dedicated outside air rooftop unit provides ventilation for the building.
3. Individual furnaces serve as backup.
4. The Apparatus Bays are heated with radiant gas-fired heaters. No code required ventilation or indoor parking exhaust is provided. An exhaust fume detection system for carbon monoxide or Nitrous dioxide is not installed.
5. An AirVac911 engine exhaust removal system is provided in the Apparatus Bay for air filtration.

Plumbing

1. The existing building has a 2-1/2" domestic water service in a closet in the basement at the front of the building. No backflow preventer was observed.
2. Two domestic water heaters are located in the basement mechanical room. One water heater is an AO Smith natural gas fired storage tank of an unknown age and appears to beyond its expected useful life. The other is a State Water Heater, 40 Gallon, natural gas fired, 40,000 Btuh input, 40.9 gph recovery, was installed 2011, and is nearing the end of its expected useful life.
3. The domestic hot water system includes a recirculating pump to ensure hot water is provided to all fixtures in a timely manner. The pumps appear to be of an older unknown age and beyond their expected useful life.
4. The gas utility service is located on the east side of the building. The outlet pressure appears to be 5-9 inches of water column per the nameplate on the utility regulator. Insufficient gas flow was noted for the second floor preventing the installation of a gas kitchen range.
5. The 4" sanitary leaves the back of the building toward the alley. Existing drawings show an interceptor for the Apparatus Bays but one was not observed. The facility has had multiple issues with the sanitary lines backing up in the basement and have suggested some of the sanitary lines have collapsed.
6. The roof drains are piped to the south side of the Apparatus Bays.

Fire Protection

1. Fire Sprinklers
   a. The Living Quarters, Dispatch, and Office area are sprinkled.
   b. The Apparatus Bays are not sprinkled.
   c. The fire sprinkler service entrance is located in a basement closet off the Dispatch room.
2. Fire Alarm System
   a. The building does not have a fire alarm system.
   b. 120V smoke alarms are installed in the bunk area.

Electrical

1. Service
    c. Electrical service to the building is underground from pole-mounted utility transformers on the east side of the building.
    d. Service is 120/208V, 3-phase, 4-wire, 600 amps.
    e. The main distribution panel is located in the basement equipment room adjacent to the conference/training room. The distribution panel is a Federal Pacific panel with fused switches, it is manufactured by AC Controls.
2. Power
    a. Power is distributed from the main distribution panel to panelboards throughout the building.
    b. The panelboards serving emergency loads appear to be newer Square D panels in good condition.
    c. Most of the remaining panelboards appear to be original to the building.
    d. The original panelboards appear to be full with no available space for additional breakers to serve additional loads.
3. Emergency Power
    a. A single 100kW/125/kVA natural gas-powered emergency generator provides backup power to the building. The generator is a Kohler Model KG100 with a weatherproof enclosure.
    b. The generator is located in the fenced in equipment yard on the east side of the building adjacent to the communications tower. The generator feed is to an automatic transfer switch in the basement equipment room. The normal power feed to the automatic transfer switch is from the main distribution panel.
    c. The load side of the transfer switch feeds an adjacent panel which in turn feeds emergency loads throughout the building.
4. Lighting
    a. The existing lighting is a combination of high bay fixtures, recessed troffers, and downlights.
    b. Site lighting is fairly minimal consisting mostly of wall mounted lights at the building exits. Light source is compact fluorescent lamps.
    c. Several pole lights and street lights provide lighting in the parking lot and around the building perimeter.
5. Telecommunications
    a. The main telecommunications room for the building is in a basement equipment room off the Dispatch area.
6. Lightning Protection
    a. The building does not appear to have lightning protection. No air terminals were observed on the roof or along the parapet.

Safety & Security

1. Currently there is not an outdoor space that can be used by firefighters that is only accessible by the crews. With this station being downtown safety and security are a concern.

2. Apparatus Bay doors are generally left in closed position unless crews are actively working in the Apparatus Bays or on the front apron.
3. Access control devices are provided on doors between the Apparatus Bays and the Offices.

Code Compliance

1. Limited compliance with NFPA 1851, Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting; This standard is used, hand-in-hand, with NFPS 1500 for the purchasing, cleaning, care and repair of fire gear. This limited space for such work and the existing space does not allow for the isolation of clean gear from soiled gear.
2. Non-compliance with NFPA 13, Standard for the Installation of Sprinkler Systems; The existing station does not have a fire protection (fire sprinkler) system throughout the entire facility. While the requirement for a fire protection system was not required at the time the original station was constructed, the current code (IBC 2018) would require fire protection. Additionally, it is difficult for the Fire Department to advocate and require fire protection for current buildings when this not provided for within their own place of business.
3. Lack of compliance with the American Disabilities Act (ADA); The original requirement for accessibility was mandated by the Federal Government. Today, many cities, including Lee's Summit, now review and enforce requirements for accessibility. Chapter 11 of the 2018 IBC covers the requirements for accessibility.
4. Lack of compliance with National Electric Code; The City of Lee's Summit enforces the use of the 2017 National Electric Code. The Code requires that adequate space be provided in front of the electrical panels within the building to both access and service devices. There is insufficient space in the electrical rooms for space to access and service the electrical panels.
5. Non-compliant exit from the lower level; The exit door to the exterior of the building has a step immediately outside the door and a flight of stairs. The building codes requires a level surface landing. Also, there is no Area of Refuge provided at either stair for those handicapped persons who can't climb the stairs.
6. Lack of compliance with IBC 2018, Chapter 4, Section 420.2, Separation Walls; The bunkroom occupancy is classified as an R-2 Occupancy. Based on the R-2 Occupancy, the sleeping units are to be separated from one another and adjacent spaces with 1-HR. fire rated construction. The existing bunkrooms do not have fire-rated construction surrounding the rooms.
7. Lack of compliance with International Plumbing Code (IPC) 2018; Building uses that are subject to the discharge of oil, grease, sand and other substances harmful or hazardous to the public sewer are to be provided with grease, oil and sander traps or interceptors. The original drawings showed an interceptor but our team was unable to locate it during our site visit.

Health & Wellness

1. Lack of environmental separation between Living Quarters/Offices & Apparatus Bays; All openings between the Apparatus Bays and adjacent bunkrooms should be tight-fitting openings with gasketing. Ideally, the mechanical system should provide for positive air pressure on the Living Quarters/Office side of the opening such that when the door is opened to access the Apparatus Bays, the air should flow from the Living Quarters/Office side to the Apparatus Bays.

Furthermore, vestibule spaces are now common practice between Apparatus Bays and Living Quarters/Offices as additional protection from contaminants in the Apparatus Bays.

2. Lack of Exhaust Air & Floor Drains for Gear Storage; Best design practices include both exhaust air and floor drains in the gear storage room. The exhaust air removes emissions from fire gear stored in the room and floor drains are needed to capture water from gear.
    a. The door to the current room is left open and allows emissions and particulate to contaminate the Living Quarters/Offices areas with no separation provided.
3. Table with eight chairs & three refrigerators are located in the Apparatus Bays and are being exposed to products of combustion.
    a. The Apparatus Bays should not be used as a place to spend extended amounts of time.
    b. Refrigerators and ice makers should not be placed in the Apparatus Bays as the contents will be exposed to the same products of combustion.
4. Lack of compliance with NFPA 1500, Standard on Fire Department Safety, Health, and Wellness Program; There is insufficient space for the Fire Department to comply with requirements to inspect, care and maintain protective gear. The Fire Department does not have a gear extractor or washer at the station as there is insufficient space to comply with this requirement.
5. The only exterior space available to firefighters' use is in the communications tower/mechanical yard, surrounded by mechanical equipment, electrical equipment, and generators. The firefighters use this space for outdoor cooking despite this as it is the only area available. This area was not designed for occupancy and in addition to lacking adequate space for the firefighters to congregate, it is not level with many tripping hazards.
6. Daylight: The windows are in serviceable condition; however, they are poorly located for the current functions of the building which has many dark areas not reached by daylight. Conversely there are many areas where FD staff has hung blankets, added window film, or painted the windows black due to unwanted/uncontrolled daylight.

Functionality Issues / Operational Deficiencies

1. Inadequate space for fire apparatus; The existing Apparatus Bays width are 15'-4". Given that more modern-day apparatus is approximately 14 feet wide (with mirrors) this is insufficient space for safe apparatus maneuvering. Additionally, the noted width includes also space for personnel. Understanding that the side walls of the Apparatus Bays include both storage and out-swinging doors, the inadequate width is compounded. NOTE: The overhead door width is 14 feet which is ideal; there is just a lack of circulation space between apparatus and on each side of the bay. In an ideal world the bay width would be no less than 16'-0" wide for adequate maneuvering around the apparatus. Best practices provide 18'-0" wide bays with 3'-0" walking area parallel to the apparatus on both sides of the bay.
2. Inadequate space for storage, equipment, records, supplies, etc.; The inadequacy of storage is evident throughout the station including the use of the Apparatus Bays for storage. This deficiency results in available space being used for storage which hampers the intended use of spaces.
3. Lack of sound control between Offices and Fitness; The is no isolation between offices on the first floor and the fitness room on the second floor. Firefighters use the Fitness room at all hours including 8am to 5pm when office staff are below them working. This condition impacts the "business" uses of the facility in reduced productivity and it can in turn impact the "living" uses

of the facility if the office staff need to ask crews to not work out during business hours. Fitness spaces should not be located above spaces that require a separation of sound. Lowest floors of a building or locating the fitness space on a noisy side of the building is best.

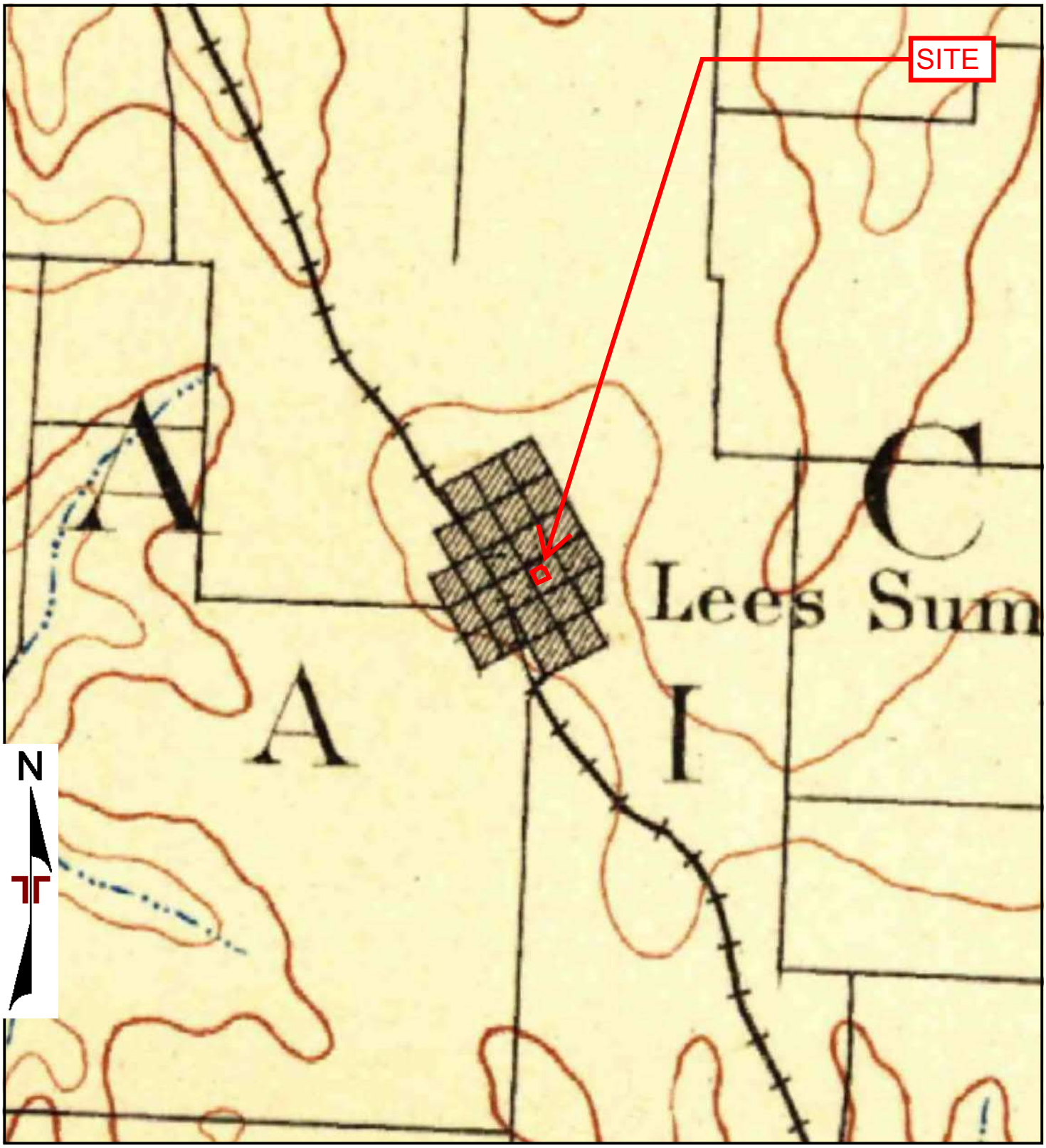
4. Lack of gender-neutral space (toilets & showers); The fire service industry is one that involves all genders of firefighters. The uncertainty of the gender makeup of the department suggests that toilet and shower facilities should be single-use, single-occupant use to assure maximum access to qualified personnel. Given the challenges the fire industry faces with attracting qualified personnel, the department should implement facility accommodation that ensures access to as many personnel as possible. Gender neutral facilities encourages personnel access.
5. Deteriorating construction; The existing station exhibits some deteriorating conditions which are to be expected due to the age of the facility and the fact that it hasn't had any renovation work done since 2004/2005.
6. Lack of separation between Living Quarters/Offices & Gear Storage; Emissions/particles of combustion coming from the firefighting gear are not being exhausted out of the building and are contaminating Living Quarters/Offices environment. Best design practices include locating personnel gear in a room separate from the Living Quarters/Offices as well as the Apparatus Bays. Exhaust air within this room removes emissions from stored fire gear. Floor drains are needed to capture water from gear as well.

Mechanical, Plumbing, and Electrical Assessment

Generally speaking, the existing MEP systems are at the end of their useful life and would need to be replaced in their entirety if the building were renovated. The only mechanical equipment worth salvaging is the VRF heat pumps serving the Living Quarters and Office area. The dedicated outside air rooftop unit is also in decent condition. The condition of the plumbing systems, piping and underground sanitary piping is unknown but likely in poor condition considering their age. The electrical service is likely undersized to support a major renovation and the electrical equipment needs replaced. A new electrical service would need to be provided as the existing CT cabinet and metering do not meet current utility standards. There is a lot of wiring and cabling no longer in use that has been abandoned over the years. New efficient LED lighting would need to be provided. The existing Kohler generator is in good condition but likely undersized to serve a renovated station. A larger generator would be required to support the additional loads connected to standby power desired for the renovation.

The communications tower on the east side of the building is to remain. Separate electrical services serve the tower and associated loads. There is a separate natural-gas power generator providing back-up power to the tower. It appears services to the tower are separated from the building services. Final review and confirmation will be needed prior to renovation or demolition of existing building systems.

Station 1 has been in service for approximately 50 years. This age of use and service life is past the point of needing major systems replacement or updating. Fire stations, like other facilities that are in use 24/7/365, do become worn and fatigued. As anyone can image, over the life of such facilities, not only to facilities become worn, but they are also not current with today's industry standards.



TP, Harrisonville, 1887, 30-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1887 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 1887			

Structural Building Assessments

Refer to Appendix C for the Structural Engineering Assessment Report and Appendix D the Seismic Evaluation Report regarding the existing facility.

Adjacent Off-Site Buildings / Structures Conditions Assessment

Refer to Appendix E for photos of adjacent buildings and structures for reference.

City of Lee's Summit and Lee's Summit Fire Department Deficiency List

Refer to Appendix F for documents provided to the design team at the building of this work which includes items that the city and fire department are aware are items of concern.

Testing & Reports

While our team's assessment of the building and the space programming exercise provide a significant amount of information to aid in the process of determining if renovation or a new building is the best path forward there is also some testing that can be done to help dig deeper. The following tests are provided in Appendix G for reference. The overview of those results is provided below.

Phase One Environmental Assessment

The conclusions from the Phase 1 Environmental Assessment concluded, "Collectively, based on proximity to the site, apparent topographic gradient, and length of operations, the historical gasoline tanks, oil tanks, and filling station historically located south and southeast of the site represent a REC (recognized environmental concern) to the site due to likely unknown releases which may have resulted in migration of contaminants onto the site."

The recommendations from the assessment noted, "Terracon recommends conducting additional investigation to evaluate subsurface conditions associated with the identified RECs. Additionally, if site use changes from non-residential to residential, additional evaluation of subsurface conditions concerning the former use of the onsite USTs may be necessitated."

UST Removal Oversight & Sampling was included in the fees for Phase 1 work under WSKF Architects. The City of Lee's Summit has opted to hold on these tests until the future of the site is determined and if the tanks are going to be in areas of new construction.

Hazardous Materials Testing

Both lead and asbestos were found in various materials throughout the facility. Timothy Easley of Terracon provided this feedback on the report findings, "All of the materials containing greater than 1% asbestos would have to be properly removed prior to any renovation or demolition activity. The gypsum wallboard with joint compound wall system contains less than 1% asbestos and would not require removal prior to demolition as long as there are no visible emissions during demolition (i.e. the material is kept wet during demolition). The demolition contractor must be made aware of the material. In the case of renovation, OSHA regulations pertaining to worker protection apply. The joint compound applied to the wallboard contains asbestos, and removal of this material is regulated as class II asbestos work by OSHA. It is recommended that, in the case of renovation, the gypsum wallboard be removed by a licensed asbestos abatement contractor using proper methods."

Timothy also noted, "There is no requirement to remove lead containing paint prior to demolition. Lead containing paint could be left in place during renovation as long as the materials is not subject to sanding, abrading or welding (any activity that would create dust or fumes)."

Due to these comments most of the asbestos materials found in the building will need to be properly removed prior to any demolition work; selective demolition or complete demolition.

Geotechnical

The full geotechnical report notes, "Based on the anticipated basement floor elevation of the proposed building, and the depth to shale bedrock encountered in our exploratory borings, it appears feasible to support the building on footing foundations that bear on suitable shale bedrock."

Site Survey

The site survey has been provided to the city and a reduced copy has been included in this Study.

Title Report

The title report was completed by Coffelt Land Title, Inc. and included for reference.

UST Removal Oversight & Sampling

As noted above in the Phase 1 Environmental Assessment text above, the UST Removal Oversight & Sampling has not occurred yet. The City of Lee's Summit has requested that this item be held until we can determine if the scope of work will disturb the existing tanks.

Conceptual Design

After the space programming and conditions assessment the next step was to provide conceptual design options for the design committee's review. These concepts are high level, not showing individual room locations but overall building area and locations of floors above and below grade. Refer to Appendix H for the conceptual design options.

Site Analysis – Proposed Conditions

Three proposed site plans have been prepared for the Station 1 property. Discussion of each option is below.

In general, with all the options, grading and drainage will be designed so that existing drainage patterns remain similar to existing conditions. Earth moving will be required but we don't anticipate extraordinary cuts and fills. The most significant grading would be required with Option P3A due to the expanded site and the relocation of the building.

Surface runoff from the western edge of the site can drain onto SE Douglas Street, but the majority of site runoff will drain to the southeast corner of the site where an existing inlet is located in the alley. Downspouts and roof drain pipes will be directed to the south and east. In confined areas where screen walls/retaining walls are proposed, surface and subsurface drainage facilities may be required. Buried pipes could possibly daylight, but more likely, the pipes will need to be connected to the existing inlet.

The existing underground fuel storage tank is in the vicinity of the generator(s) in Options P1A and P2A, and in the vicinity of a proposed retaining wall in Option P3A. Given the potential conflicts, we recommend that the budget include costs to remove the underground fuel storage tank. There is also an underground water storage tank and an underground waste oil tank. These will likely need to be relocated and reconnected if the City and Fire Department determine they want to continue with their use.

We recommend that all pavement be removed and replaced per the proposed site layouts. All the options result in a loss of on-site parking stalls. We believe this is acceptable given the availability of parking on the street, across Douglas, and in the adjacent city parking garage. Also, with all the options, the existing communications tower, transformer, city payment drop box, and memorial at the southwest corner of the site will remain.

Option P1A

This option is for the renovation of the existing building plus two additions.

1. The existing bays will be reduced in length by approximately 20'-0", allowing for an extension of the rear concrete apron. This will reduce the slope of the rear apron from approximately 14% to approximately 11% but even this slope is steeper than what is considered design best practices.
2. An addition on the south side of the building will eliminate parking on the south side of the site. The south wall of the addition will serve as a retaining wall adjacent to the existing alley.
3. An auxiliary bay will be added on the north side of the building. To accommodate this, some of the parking will be flipped to the south side of the north parking lot, and the remainder of the north parking area will be utilized as a driveway for both emergency vehicles and passenger

cars. This will require the reconstruction of the public entrances on both the east and west sides of the north parking area.
4. It is anticipated that utility services will be similar to existing although some or all utilities may need to be reconstructed to accommodate the proposed construction. Consideration may also be given to placing overhead service to the building underground.
5. A new screen wall/retaining wall will be constructed in the area of the communications tower and a new outdoor patio/fitness area will be added on the east side of the communications tower.
6. Generator(s) with a masonry screen wall will be constructed at the southeast corner of the building to provide space behind the building for an outdoor patio and fitness area for the crews.
7. The site will contain 8 parking spaces and a total of 25 parking spaces will be eliminated.
8. The lower level will be approximately half of the first floor.
9. The apparatus support addition on the south side of the existing building is very narrow which will make it challenging to layout with rooms.

Option P2A

This option is for a new building with a site layout somewhat similar to Option P1A.

1. The building is shifted slightly to the north compared to Option P1A and the front and rear concrete aprons will shift along with the building.
2. The bays will be reduced in length, allowing for an extension of the rear concrete apron. This will reduce the slope of the rear apron from approximately 14% to approximately 11%.
3. The south wall of the building encroaches on the existing parking. Some of the lost parking can be reclaimed by utilizing parallel parking along the alley. All of the onsite parking will be lost except any parallel parking stalls that are added on the south side of the building.
4. An auxiliary bay is proposed on the north side of the building. To accommodate this, the area of the existing north parking lot will be reconfigured to only serve as a drive for emergency vehicles. This will require the reconstruction of the public entrances on both the east and west sides of the north parking area.
5. It is anticipated that utility services will be similar to existing although some or all utilities may need to be reconstructed to accommodate the proposed construction. Consideration may also be given to placing overhead service to the building underground.
6. A new screen wall/retaining wall will be constructed in the area of the communications tower and a new outdoor patio/fitness area will be added on the west side of the communications tower.
7. Generator(s) with a masonry screen wall will be constructed at the southeast corner of the building.
8. The main entrance is generally in the same location it is now, facing Douglas.
9. The lower level will be approximately half of the first floor.

Option P3A

This option is for an expanded site with property acquired on the north side of the fire station. A survey will need to be prepared for the expanded area as the survey that was part of this study only includes the existing property. This option is a complete site reconstruction. The proposed Apparatus Bays will be turned 90 degrees compared to the existing building although the main entrance to the station would remain on Douglas.

1. The bays will face north and south instead of east and west. If the FF elevation is at approximately 1028, same as the existing building, the slope of the rear (south) apron will be approximately 2.5% at the center and the slope of the front (north) apron will be approximately 10% at the center. The aprons will also have some slope from south to north. The opportunity to lower the building for the purpose of reducing the slope of the north apron is limited by the need to maintain positive drainage from the west side of the building onto SE Douglas Street.
2. Demolition of the expanded property will need to occur including two existing buildings and an existing parking lot.
3. The main entrance to the fire station is located on Douglas.
4. A parking area bisected by a retaining wall is proposed for the southeast portion of the property. The upper parking area will be accessed from the rear apron and the lower parking area will be accessed from the east alley. Approximately 16 +/- parking spaces can be provided in this area.
5. Auxiliary bays will be constructed at the southwest portion of the building with a drive connection to SE Douglas Street.
6. Utility services will need to be re-routed/reconstructed as necessary to accommodate the new building location.
7. A new screen wall/retaining wall will be constructed in the area of the communications tower that will also contain the generator(s).
8. An outdoor fitness area will be provided in the southwest corner of the property.
9. The outdoor patio space would be located in the northwest corner of the Living Quarters/Office area underneath the second floor.
10. The lower level will be approximately half of the first floor.
11. Fitness is separated from the rest of the station due to the noise created by the space.

Note on Option P3A: While we understand that negotiations will need to occur with property owners and the City of Lee's Summit for this option to be a possibility we were tasked with the responsibility of reviewing all potential options for the future fire station. When we think of designing a station to last another 50 years we look at how best to accommodate that need by designing with best practices in fire station design

Concept Budgets

As part of the Feasibility Study Newkirk Novak Construction Partners has performed a series of cost analyses using cost history from local and non-local fire station projects along with conceptual budgets for 3 different design options for Fire Station #1. The following data shows the results from those cost analyses. Newkirk Novak appreicates the opportunity to provide support for this feasibility study.

The chart on page 6 in Appendix I is a cost analysis between Lee's Summit Fire Station #3, a fire station in the Des Moines area, and Lee's Summit Fire Stations 4 & 5, and Newkirk Novak Conceptual Estimates for Fire Station #1 Options 2 & 3.

In the chart on page 6 in Appendix I, Lee's Summit Fire Station #3 is the left two columns. The first column is the original costs and second column is the project cost escalated to today's dollar. Columns labled "Des Moines" and "Fire Station 4 & 5" are costs from a fire station project in the Des Moines area and Lee's Summit Fire Stations 4 & 5. The costs listed for the Des Moines project are budget costs from another construction manager at risk and the budget was based on 65% construction documents. The costs listed for Fire Stations 4 & 5 are subcontractor contract hard costs for 100% construction documents. Columns labeled "FS 1 Option 2" and "FS 1 Option 3" are taking the cost per square foot from Lee's Summit Fire Stations 4 & 5 for each trade and applying that to the total square footage for Fire Station #1 Options 2 & 3. Columns labeled "FS 1 Option 2" and "FS 1 Option 3" have been escalated and that escalation is reflected in the costs shown.

Newkirk Novak provided conceptual budgets based off WSKF conceptual designs for Fire Station #1. The chart on page 4 in Appendix I shows the summaries from those budgets. Option #1 consists of renovating the current building with two small additions. Option #2 consists of demolishing the existing building and constructing a new building in the same location. Option #3 includes demolishing the existing building and constructing a new building but extending the property boundaries of the site to the north which would include the demolition of adjacent buildings.

Appendix A – Space Programming

A. LOBBY, ADMINISTRATION & SUPPORT SERVICES

RM. NO.	ROOM NAME	DESIGN REQUIREMENTS	RM. SIZE (L)	RM. SIZE (W)	PROPOSED AREA	LEVEL	NOTES
A-1	Vestibule	safe haven (locking after entry, if needed), baby box, open 24/7	8	8	64	G	call system to dispatch, door bell system thru station alerting, video sur., facing Douglas Street, what are the design implications of "safe havens"?
		Area above is accessible by the public 24/7					
A-2	Lobby	open area for circulation	8	14	112	G	
A-3	Flex Space/Meeting Room	12 people, movable tables and chairs, large monitor, wireless & HDMI connection, sink, plumbed water for coffee, lower cabinetry	13	25	325	LL	near the front door, meeting space to host downtown meetings, facing Douglas Street
A-4	Public Restroom	accessible, unisex	7	8	56	G	not for general public use due to location downtown and potential for overuse
		Area above is accessible by the public when allowed					
A-5	Watch Room	Small space overlooking lobby, include bullet resistant walls/glass, pass-thru window	7	7	49	G	this space is not planned to be staffed but meant to welcome people to the station safely
A-6	Training Classroom	20 people (24), movable tables and chairs, large monitor, wireless & HDMI connection	25	32	800	LL	near Dayroom/Living Space, doesn't need to be near the front door
A-7	Training Storage	cabinets (upper/lowers), space for training props on shelving	8	10	80	LL	do not need space to store tables and chairs, can push tables and chairs to one side of the Training Classroom
A-8	Crew Office/Report	2 workstations for report writing, HIPAA concerns so privacy needed	7	9	63	G	near dayroom, similar to LS #3
A-9	~~Common Area/ Public Shelter~~	~~need to determine if this space is part of the project or not (currently sized as a 40 person training room) should this be hardened or ICC 500 rated?~~					~~this has been the large training room in the lower level of the existing fire station and serves the people of downtown Lee's Summit, if renovation or a new facility will this feature remain?~~
A-10	Company Officer 1	desk, guest chair, small table with 3-4 chairs	11	17	187	G	similar to LS #3
A-11	Company Officer 2	desk, guest chair, small table with 3-4 chairs	11	17	187	G	similar to LS #3
A-12	**Operations Chief** Office	desk w/ credenza, 2 guest chairs, 4 person table & chairs	12	22	264	G	part of a suite with bunk/restroom, similar to chief suite in LS #3
A-13	Bunk	bed, recliner, tv, 4 lockers, no ceiling fans	12	16	192	2	*look at ways to place lockers for all three together in one area outside of the bunks*
A-14	Bunk Restroom	sink, toilet, shower (easy access controls), shelving, robe hooks	7	11	77	2	
A-15	**Safety Officer** Office	desk w/ credenza, 2 guest chairs, 4 person table & chairs	12	22	264	G	part of a suite with bunk/restroom, similar to chief suite in LS #3, captain level position
A-16	Bunk	bed, recliner, tv, 4 lockers, no ceiling fans	12	16	192	2	
A-17	Bunk Restroom	sink, toilet, shower (easy access controls), shelving, robe hooks	7	11	77	2	
A-18	**Shift Inspector** Office	desk w/ credenza, 2 guest chairs, 4 person table & chairs	12	22	264	G	part of a suite with bunk/restroom, similar to chief suite in LS #3
A-19	Bunk	bed, recliner, tv, 4 lockers, no ceiling fans	12	16	192	2	
A-20	Bunk Restroom	sink, toilet, shower (easy access controls), shelving, robe hooks	7	11	77	2	
A-21	Suite Kitchenette	small kitchenette space that would serve the three office suites above, include table for 4 people	12	12	144	G	
A-22	Ice Machine	commercial size with water connection and floor drain	5	7	35	G	locate near the bays
A-23	General Storage	small space for office supplies	3	7	21	LL	near offices
A-24	Janitor 1	first floor - mop sink, shelving, mop hooks	5	7	35	G	located as req'd per building layout

A-25	Janitor 2	lower level - mop sink, shelving, mop hooks	5	7	35	LL	located as req'd per building layout
A-26	Water/Sprinkler		10	11	110	LL	
A-27	Electrical		10	11	110	LL	
A-28	Mechanical		10	11	110	LL	
A-29	Technology	2 server racks, provide air conditioning to the space	7	9	63	LL	
				Lobby, Admin., & Support Serv. Subtotal	**4,185**		
				Grossing Factor (33%)	**1,381**		
				Lobby, Admin, Support Services Total	**5,566**		

B. LIVING QUARTERS

RM. NO.	ROOM NAME	DESIGN REQUIREMENTS	RM. SIZE (L)	RM. SIZE (W)	PROPOSED AREA	LEVEL	NOTES
B-1	Kitchen	(2) 46" heavy-duty residential gas ranges w/ hoods, 2 dishwashers, sink with single, deep bowl, hand/bar sink next to plumbed coffee, 5-6 bar stools at the island, undercounter ice machine, 3 pantries, 2 microwaves, electric skillets, 3 refrigerators, undercounter trash with no top opening, plyboo	20	30	600	G	operable windows, lots of power (including in the island), ADA counter height at coffee bar only *NOTE: 2 cooktops needed as 1 was not enough at LS #3, larger burners needed for large pots, WSKF concern on if this could trigger concerns with codes dept. although we will plan on separate hoods for the ranges*
B-2	Dining	size for 18 people (future), table for 14 needed at move-in	16	34	544	G	
B-3	Day Room (1)	**provide space for 14 recliners**, provide in-floor power that then powers tables for ease	32	38	1,216	G	tables need power, usb/usc
B-3a	**Day Room (2)**	**does it make sense to include a second Day Room due to the number of staff in this station?**	16	38			**the design committee was split on if a second dayroom was desired**
B-4	Unisex Restroom	accessible, unisex	7	7	49	G	
B-5	Captain Bunk (2)	bunk, night stand, small desk for computer, no ceiling fans	9	13	234	2	*LSFS#3 captain's have a bunk/ nightstand/recliner/tv but no desk* *LSFS#4/5 show a bunk/nightstand/ recliner/tv with desk*
B-6	Locker Alcove	4 lockers per bunk room	8	16	256	2	just outside of bunk, noise control will be a concern for all locker alcoves
B-7	Bunk Restroom (2)	sink, toilet, shower (easy access controls), shelving, robe hooks	9	9	162	2	adaptable showers important
B-8	Standard Bunk (12)	space only for bunk and night stand, no ceiling fans	9	9	972	2	
B-9	Locker Alcove	3 lockers per bunk	7	11	448	2	just outside of bunk, noise control will be a concern for all locker alcoves
B-10	Bunk Restroom (12)	sink, toilet, shower (easy access controls), shelving, robe hooks	7	11	924	2	adaptable showers important
B-11	Personnel Laundry	washer/dryer, counterspace to fold clothes, cabinetry for storage, sink	7	13	91	2	need to determine if utility sink or standard/in-counter sink
B-12	Wellness Room	destress and lactation space with chair, lower cabinets, small undercounter refrigerator,	9	10	90	G	
B-13	Fitness	equipment list to be provided by the health & wellness committee - **WSKF to plan for double the equipment at Stations 4 & 5, McCaw to provide equipment list.**	**20**	**32**	**640**	LL	no occupied spaces below, access to outdoors desired, **size is larger than LS #4 & 5 (320 SF)**
B-14	General Supply Storage	space for wire shelving	7	13	91	2	similar to LS #3
B-15	Janitor's Closet	mop sink, shelving, mop hooks	5	7	35	2	
				Living Quarters Subtotal	**6,352**		
				Grossing Factor (33%)	**2,096**		
				Living Quarters Total	**8,448**		

C. APPARATUS BAYS

RM. NO.	ROOM NAME	DESIGN REQUIREMENTS	RM. SIZE (L)	RM. SIZE (W)	PROPOSED AREA	LEVEL	NOTES
C-1	Apparatus Bays	bifold doors (out) at front, standard ovhd doors at rear, 4 drive through bays, approx. 70-75 ft in depth, radiant heat floor/aprons (full length)/site sidewalks, hvls fans, airvac 911, electrical/air/water drops, undercarriage wash (front & back of bays), boot wash w/ dryer and sink just inside apparatus bay	75	78	5,850	A	ceiling height is important (lower is better for a more traditional-old feel), if fire poles are used: 4 bunks/pole
C-2	Auxiliary Bay	requirements align with Apparatus Bays above, for Chief & Shift Inspector vehicles	24	31	744	A	near Offices for quick response times
C-2	Radio/Battery Alcove	off apparatus bay floor in alcove with lower cabinetry for storage, power strip along wall				A	
C-3	Hose Storage Alcove	off apparatus bay floor in alcove, space for 2 rolling racks	4	14	56	A	racks dimensioned as 2' x 6'
C-4	Hose Dry *(Potential Tower?)*	winch system from apparatus bay ceiling	10	10	100	A	could a tower be incorporated into design for the iconic look, hose drying and/or the elevator shaft?
C-5	Compressor Room	space needed for a vertical air compressor, SCBA, and cascade system	12	12	144	A	located on the south side of bay for dirty/decon uses
C-6	SCBA Fill Room	space outside of the Compressor Room to fill tanks, provide storage space	3	12	36	A	in the Workshop along one wall, adjacent to Compressor Room
C-7	Workshop	WSKF standard workbench, pegboard	11	12	132	A	size similar to LS #3
C-8	General Bay Storage	6' x 8' coiling door	10	12	120	A	
				Apparatus Bays Subtotal	**7,182**		
				Grossing Factor (24%)	**1,724**		
				Apparatus Bays Total	**8,906**		

D. DECONTAMINATION PROTOCOL

RM. NO.	ROOM NAME	DESIGN REQUIREMENTS	RM. SIZE (L)	RM. SIZE (W)	PROPOSED AREA		NOTES
D-1	Gear Storage / ICC-500 Storm Shelter	radiant heat floor (may opt to use a different heat source due to coordination issues during construction for this space and other apparatus bay support spaces), 2 sets of gear + wildland set = 3 sets, tote/gear bay storage on one wall, provide dehumidifier	21	38	798	A	similar to LS #3 **count: 17 x 3 shifts = 51 sets (second set of gear & wildland gear will be located in tupperware bin under gear grid lockers so gear grid lockers need to be mounted higher than standard to accommodate this request, TOTAL COUNT: 51 lockers**
D-2	Decon Restroom 1 / ICC-500 Storm Shelter	unisex restroom - sink, gross decon shower, toilet, clothing cubbies	6	9	54	A	adjacent to gear wash & gear storage
D-3	Decon Restroom 2/ ICC-500 Storm Shelter	unisex restroom - sink, gross decon shower, toilet, clothing cubbies	6	9	54	A	adjacent to gear wash & gear storage
D-4	Gear Wash	extractor, washer, & dryer on housekeeping pads, radiant floor heat, scba/ppe cleaning process - (2 or 3 compartment sink with drain boards, meiko washer, 1 compartment sink, stainless steel table, gear hang dry system (sim. to LS #3), open to bay, mop sink	14	25	350	A	need to discuss how scba and ppe equipment will be dried, arrange so front of extractor aligns with washer/dryer
D-5	Decon Wash Area	similar to stations 4/5, stainless steel 2 basin w/ drainboard on one side, wash off large areas	3	8	24	A	could be part of the Gear Wash room as part of scba/ppe wash process
D-6	Medical Storage	wire racks	12	12	144	A	directly off bays, pressurized space like vestibules
D-7	(2) Bay Vestibules	pressurized space between green and red zones; tack mats for boot contaminants	8	8	128	A	
				Decontamination Protocol Subtotal	**1,552**		
				Grossing Factor (33%)	**512**		
				Decontamination Protocol Total	**2,064**		

E. SITE

RM. NO.	ROOM NAME	DESIGN REQUIREMENTS	RM. SIZE (L)	RM. SIZE (W)	PROPOSED AREA	LEVEL	NOTES
E-1	Staff Parking	17 people/34-36 spots for shift change, currently use South alley for FD, some off site in adjacent city garage	SF as required to fit site plan				
E-2	Memorial Monument	to take the place of the city artwork area	SF as required to fit site plan				located where the tree was, sw corner
E-3	Apparatus Bay Aprons	radiant heat, reduce rear apron slope	SF as required to fit site plan				amount of radiant heat area to be determined by budget
E-4	Grilling Area	may be separate from the Outdoor Patio space if Outdoor Patio moves to the 2nd floor, provide gas and power	SF as required to fit site plan			G	adjacent to kitchen
E-5	Outdoor Patio	possible rooftop outdoor area to separate from downtown activities	SF as required to fit site plan			1 or 2	if located on the NW side, views of downtown/parades could be provided
E-6	Outdoor Fitness Space	desired	SF as required to fit site plan			G	adjacent to fitness room
E-7	Emergency Generator	new or existing to be determined through preliminary design, natural gas to run the full building	determined by load/need				if existing isn't large enough to serve the entire building it could be used as a back-up unit to power necessities.
E-8	Site Drives/Paving		SF as required to fit site plan				
E-9	Lawn/Green Space	low maintenance, turf, rock, native plants	SF as required to fit site plan				
E-10	Trash Enclosure	not needed, FD uses the City Hall dumpster					
E-11	Flagpole(s)	1 pole					WSKF to confirm if existing pole can be reused
E-12	Communications Tower	to remain as is, power/to tower may need to be rerouted depending on scope of work decided on as some power comes from the building	existing space to be planned around				tower is mainly a cellular tower that the city does not use, radio/communications for dispatch are located on water towers
E-13	Hydrant	existing, up front at the sw corner					use for tank refill
E-14	Signage	signage similar to stations 4 & 5 with the large number					

DESIGN / SPACE NEEDS SUMMARY

A. LOBBY, ADMINISTRATION & SUPPORT SERVICES	**5,566**
B. LIVING QUARTERS	**8,448**
C. APPARATUS BAYS	**8,906**
D. DECONTAMINATION PROTOCOL	**2,064**
Building Total	**24,984** *~25,000 Target*

Space Allocation

			ACTUAL SF w/ GROSSING FACTOR
LL	**Lower Level**	**2,294 SF**	***3,051***
A	**App Bay**	**8,734 SF**	***10,830***
G	**Ground Floor**	**4,223 SF**	***5,617***
2	**Second Floor**	**4,020 SF**	***5,346***

APPARATUS LIST

NO.	APPARATUS	DESCRIPTION	L	W	H	RADIUS	NOTES
A1	Pumper	first out vehicle	35'				
A2	Truck	first out vehicle	45'				
A3	Ambulance 1	first out vehicle	26'				
A4	Ambulance 2	first out vehicle	26'				
A5	Reserve Ambulance		26'				
A6	Reserve Pumper		35'				
A7	Small Boat/Trailer	**FD to determine if this can be parked at another location**	25'				length is trailer tongue to boat motor
A8	Response Chief Vehicle	Tahoe	18'				**could be located in a separate bay space with the Shift Inspector vehicle**
A9	Utility Truck	F150 (4 door cab) **FD to determine if this can be parked at another location**	20'				
A10	Shift Inspector	F150 (4 door cab)	20'				**could be located in a separate bay space with the Response Chief**

ADDITIONAL BUILDING DESIGN REQUIREMENTS

1) access control; compatible with existing facilities
2) video surveillance; compatible with existing facilities
3) other special systems; compatible with existing facilities
4) fire sprinkler
5) irrigation system
6) green building strategy, use affordable LEED Principles, not seeking LEED certification
7) building codes
   - when will 2024 be adopted?
   - 2018 International Building Code
   - 2018 International Plumbing Code
   - 2018 International Mechanical Code
   - 2018 International Fuel Gas Code
   - 2018 International Residential Code
   - 2018 International Fire Code
   - 2017 National Electrical Code
   - ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities
8) multi-story station: vertical circulation needed (stairs, elevator, fire poles)
9) if possible, would like to use the space under stairs for storage, provide sprinkler head here
10) confirm ADA requirements for the new station including accessible/adaptable bunk restrooms with bldg. codes/Sharon
11) confirm if air quality monitoring in the living/office/green zone is important to the city
12) **Mail comes to a centralized location, not to each station.**
13) **Drinking fountain w/ bottle fill at public restrooms and fitness**
14) **No receptionist will be needed at this downtown station.**
15) **A small kitchenette space is not needed in the training room.**
16) **No uniform storage is needed.**
17) **The design committee was divided on if two dayrooms vs. one was a good idea.**
18) **The City does not wish to think about electric vehicles when designing this station as they have their apparatus for the next 13 years already planned out. The City will figure it out if/when the time comes.**
19) **Architectural Style - keep in line with the architectural style that is common in the old downtown area. The desire would be for the new building to have a very old feel.**

Appendix B – Conditions Assessment Report & Photos

EXISTING FACILITY ASSESSMENT SURVEY

FACILITY NAME:	Lee's Summit Fire Station #1
ADDRESS/LOCATON:	207 SE Douglas St, Lee's Summit, MO 64063

*Original building was constructed in **1974**, Building has undergone renovations throughout its **50** year lifespan. A brick façade was added to the structure in **2005** and some minor interior renovation work was completed that same year.*

STRUCTURE

Date of Construction	**1974**
Date(s) of Renovation/Expansion	**2005** - Brick Skin was added to the building with some minor interior reconfigurations
Building Age	**50 years**
Construction Type	*IIB, but has had many renovations throughout the years and may include wood framing in various locations which make it Type VB.*
Building Construction	Precast double-tee structure & exterior with additional brick façade. Interior metal stud, cmu or cast in place concrete. *Areas of non rated wood construction.*
Building Area *(SF)*:	Rentable Area Lower Level – 5,404SF First Floor – 5,579 SF Apparatus Bay – 7,012 SF Second Floor – 5,477SF **23,472 SF Total** Gross Area (including exterior walls) Lower Level – 5,677 SF First Floor – 13,229 SF Second Floor – 6,263 SF **25,169 SF Total**
Number of Stories:	Two levels above grade, one level below grade
Legal Description:	See title report for more details: HOWARDS 1ST ADD TO L S; S1/2 OF LT 7 AND ALL OF LTS 8 AND 9 BLK 17 AND ALL VAC ALLEY; LY ADJ TO LOTS 8, 9, AND 4 BLK 17

Site Area *(SF & Acres):*	SF:	**41,095**		Acres:	**0.94**		
Generator	**X**	Yes		No			
Auxiliary Power	**X**	Full Facility		Partial Fac.	**Natural Gas**	Fuel Source	

General Condition	*Fair condition overall; the size of the generator will need to be compared to what will be needed for the future building*
Maximum Station Staffing Capability	8 Squad, 17 Administration, 5 Dispatch
Seismic Protection *(if required)*	No known seismic protection provided
Category IV Conformance *(if required)*	Passes Category IV requirements per original drawing notes
ICC-500 Conformance *(if applicable)*	No; this standard was created as part of the 2015 IBC

Hardened Space / Storm Shelter	**X**	Yes	**X**	No	
Sprinklers / Smoke Detection	**X**	Sprinklers	**X**	Smoke Detection	*NOTE: no sprinklers in the apparatus bays*

Special Considerations	All of the requirements listed above will need to be met if the building renovation is valued at 50% or more of the building's value which is extremely likely.

HEALTH / WELLNESS & SAFETY / SECURITY

Haz. Bldg Materials *(lead/asbestos/etc.*	Testing by Terracon as part of Facility Assessment, results show lead and asbestos are both present in the building
Entry Flooring/Trip Hazards	Porcelain tile w/ removable mat; WSKF advises against using movable rugs at entryways as they can create tripping hazards.
Mechanical System Type/Age	Various ages, see MEP report

Natural Light in Spaces	Lower Level - no natural light, First Floor - natural light in most spaces minus a few offices and breakroom, Second Floor - natural light in most living spaces (dayroom has minimal natural light) minus the majority of the sleeping bunks and the womens restroom.					
Security	X	Access Ctrl		Fencing	X	Video Surveillance
Other Security Measures	None, although the building should have one to meet ADA					
Fire Extinguishers	Unknown locations at this time					

BUILDING ASSESSMENT

Building Envelope / Exterior Finishes	Precast double-tee structure with brick and cast stone exterior façade
Foundation System	Cast-in-place concrete grade beams and formed Lower Level walls, Apparatus Bay is on piers
Floor System(s)	Slab on grade concrete at Lower Level and Apparatus Bays
Window Material	Aluminum frame, insulated glass.
Roof Construction	Precast double-tee structure with lightweight concrete above
Roof Covering	TPO Membrane roof, roof is approximately 23 years old There are ongoing issues with the roof including issues with the lightweight concrete under the membrane. The City of Lee's Summit was quoted $450K to replace the roof and over the wall flashing Summer of 2022 so replacement is well over $500K now.
Exterior Doors	Storefront and hollow metal man doors, overhead sectional apparatus bay doors
Interior Partitions	Mostly stud framing with a concrete demising wall between the living/offices and the apparatus bays
Interior Flooring	Sealed concrete, VCT, carpet tile, epoxy, porcelain tile, athletic rubber flooring, the fitness room is mostly carpet with a few fitness mats
Ceilings	Mostly drop acoustical tile ceilings, apparatus bays are open to exposed concrete structure
Other (Casework, special features)	Plastic laminate casework
Elevator(s) ***(quantity/type)***	None, although the building should have one to meet ADA

SITE ASSESSMENT

Topography	Site slopes so that Douglas Street is higher than the alley behind the fire station creating a very steep slope at the rear apparatus bay approach.					
Landscaping Quality	Landscaping is rock, grass, and plantings.					
Site Lighting	Pole security lighting at rear apron and NW and SE parking.					
Storm Water Drainage	No requirements when constructed, site is almost 100% impervious materials					
Downspouts Below Grade	X	Yes		No		N/A
Sustainability	Not a consideration in 1974					
Paving & Concrete	Pavement:	Concrete paving at apparatus drives alley and sidewalks. Parking is asphalt. Brick pavers at front curb (parking strip). Asphalt and concrete drives and parking are in poor condition.				
	Curbs:	Concrete curbs throughout site				
	Joints:					
Parking Counts	32	Staff	0	Visitor	1	ADA (short one van accessible parking space
Other Parking ***(count/type)***	n/a					
Sidewalk ***(ROW connect, condition, accessibility)***	Sidewalk from building to public right of way					
Front Door Visible	X	Yes		No	Building entry is controlled and is visible from front desk, front desk position is moving off-site when Fire Administrative functions move to Operations Center	
Private vs. Public Space Separation	X	Yes		No		
Street Access Vertical Elevation	Slight slope up from the street to the front apparatus apron.					
Access & Egress To/From Site	Site is located in the center of downtown Lee's Summit and has good egress for fire apparatus from the site but the return access is less than ideal.					
Access & Egress To/From Site - Staff	Staff vehicles and personnel personal vehicles have adequate access to and from the site. Parking located to the north of the building in a parking lot and on the south side of the building off the alley.					
Access & Egress To / From Site - Visitors	Access is controlled at the main entrance vestibule for visitors. Reception responds to request to enter.					
Flagpole	X	Yes		No	1	Qty.
Other Site Structures ***(type/function)***	Property has communication tower, generators with a brick wall enclosure, and an outdoor artwork display area at the SW corner of the site.					
Site Risks/Other Observations	All storm water is surface drained.					

INTERIOR ACCESSIBILITY / ADA

Int./Ext. Doors ***(access clearance/threshold)***	X	Yes		No	Majority of doors meet ADA requirements but not all. This is to be expected due to the age of the facility.
Doors ***(handles/opening pressure)***	X	Yes	X	No	A few doors throughout the building have knobs vs. levers in the accessible route of travel. Knobs do not meet ADA.
Water Fountain ***(height/accessibility)***	X	Yes		No	Provided throughout
Signage ***(height / braille)***	X	Yes		No	Braille is provide on restroom signage
Elevator		Yes	X	No	

Floor Transitions ***(interior/exterior)***	X	Yes		No	Transitions appear to be flush
Floor Slopes ***(interior ramps, etc.)***		Yes	X	No	

PUBLIC ACCESSIBLE AREAS

Sinks ***(height, pipe wrap)***	X	Yes		No	
Dispensers/Accessory ***(mounting height)***	X	Yes		No	
Countertops ***(heights)***	X	Yes		No	
Grab Bars	X	Yes		No	
Protruding Objects - Accessible Route(s)		Yes	X	No	None observed
Public Access Rooms ***(toilets/training/etc.)***	X	Yes		No	Provided but location is not ideal for security reasons

EXTERIOR ACCESSIBILITY / ADA

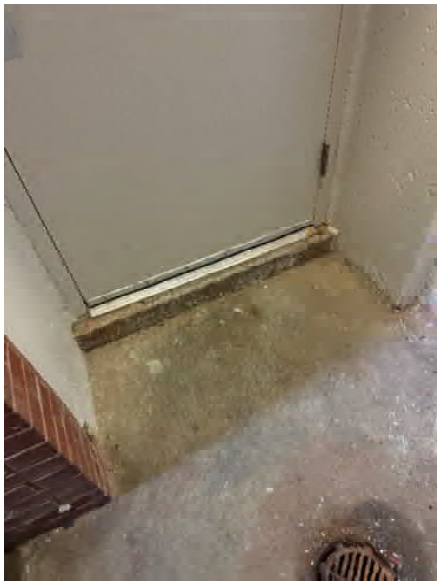
ADA Parking Striping/Signage	X	Yes		No	
Access between ADA Parking & Building	X	Yes		No	
Other Access to Building		Yes	X	No	Not all entrances to the building meet ADA, exits along the north side of the building require stairs
Slopes of Accessible Access Pathways	X	Yes		No	Accessible route to the building appears to meet ADA

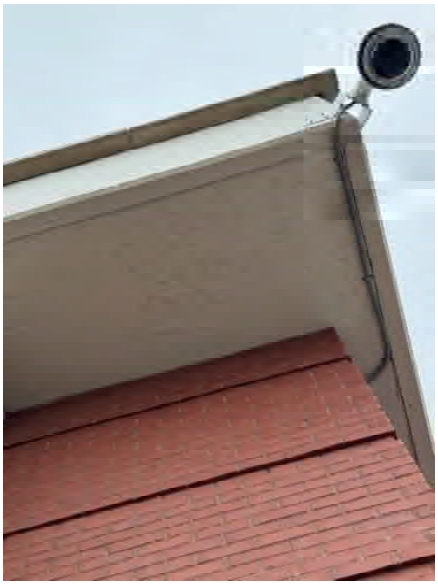
GENERAL BUILDING OBSERVATIONS

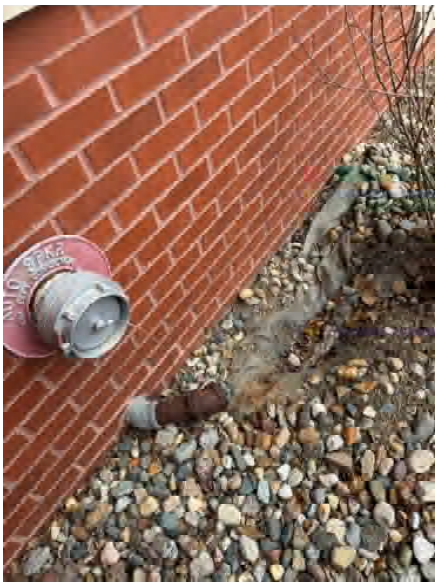
1. Building contains many layers of abandoned systems, cabling, plumbing etc.
2. Water pools at the exterior stair to the lower level
3. Major cracking above basement egress stair, repaired at least once in the past.
4. Brick along the basement egress stair has considerable salt damage.
5. Many cast stone pieces around the building have hairline fractures in them, some have cracking more severe.
6. Refer to MEP and Structural Assessments for additional information.

GENERAL SITE OBSERVATIONS

1. Front apparatus bay apron is not long enough to do engine checks without being in the street.
2. Rear apparatus bay apron is too steep and should be reduced to a more manageable slope for large apparatus.
3. Refer to Civil Assessment for additional information.







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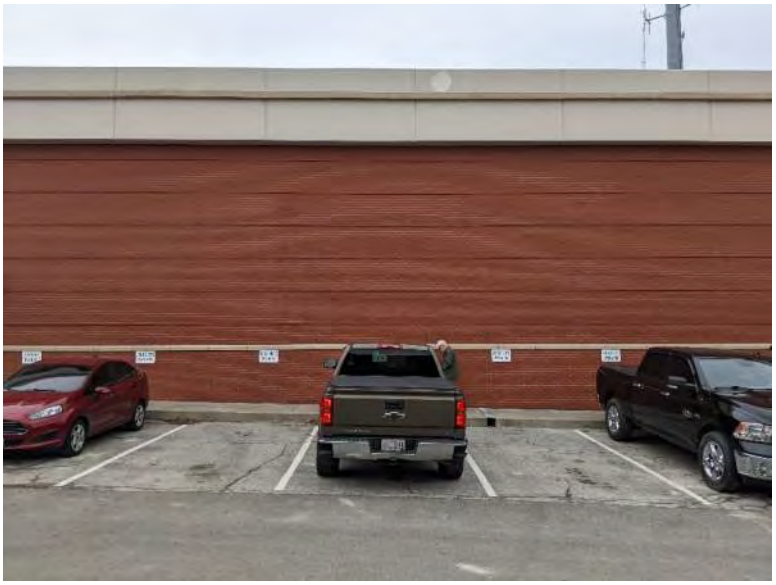

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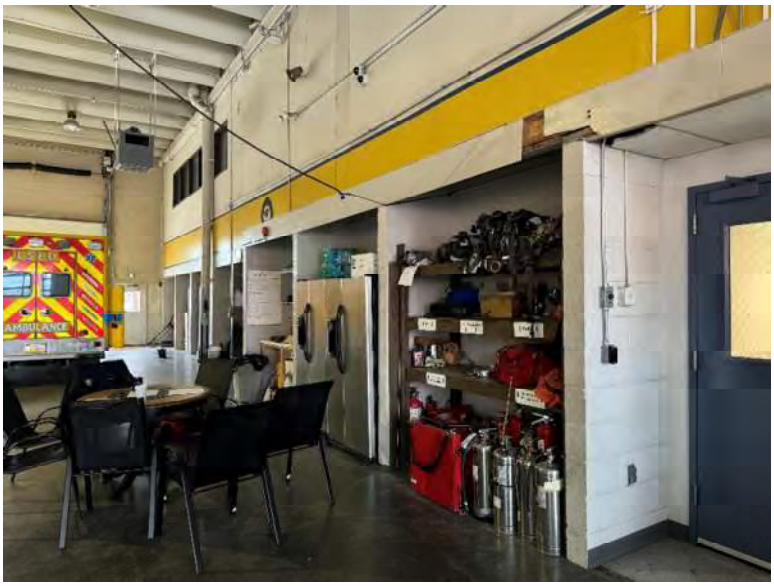

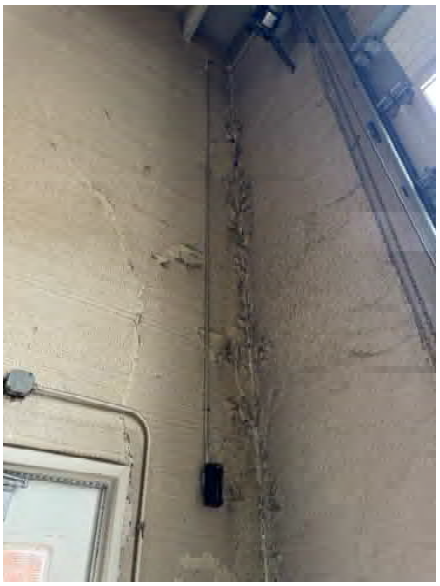

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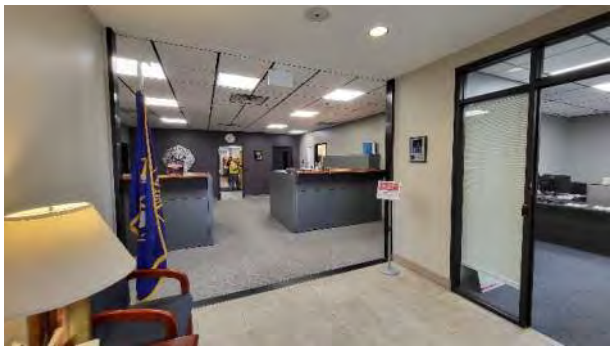

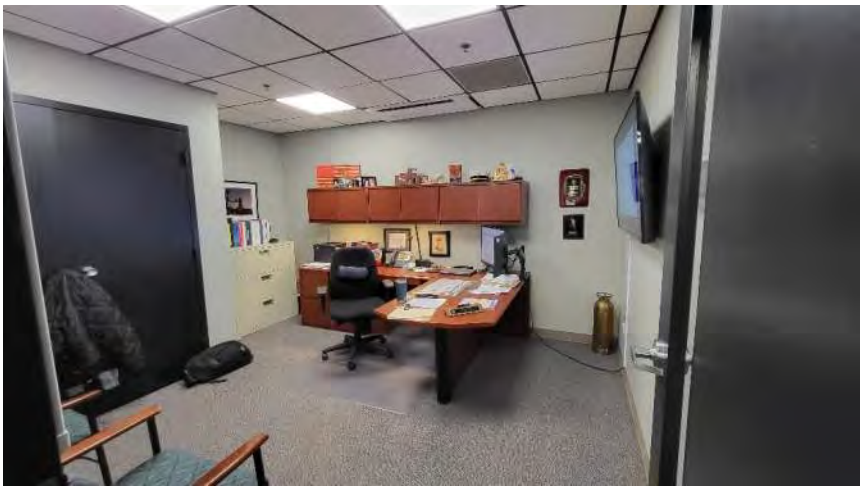

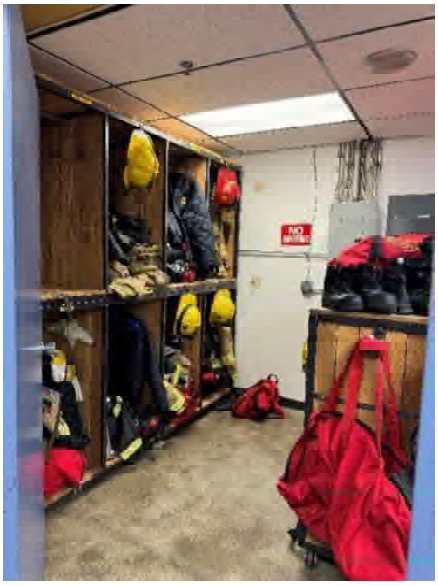

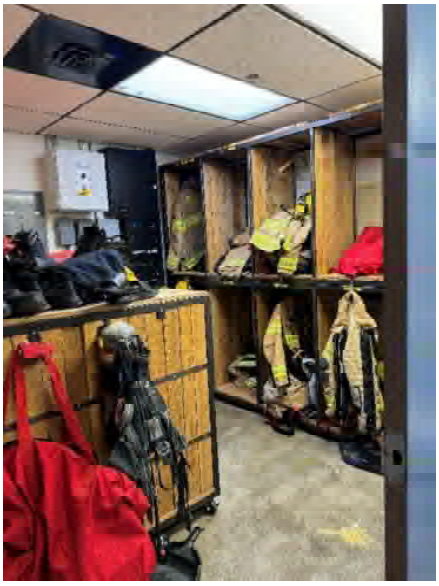

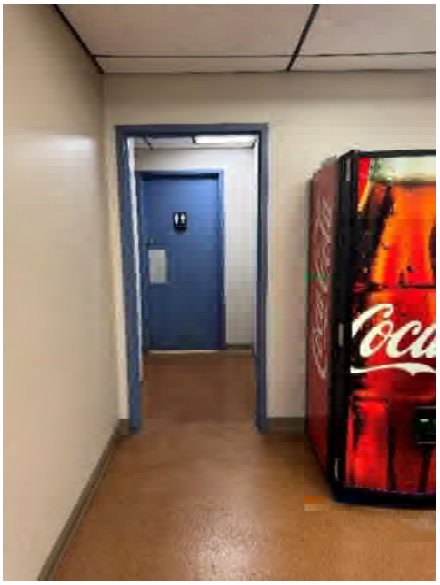

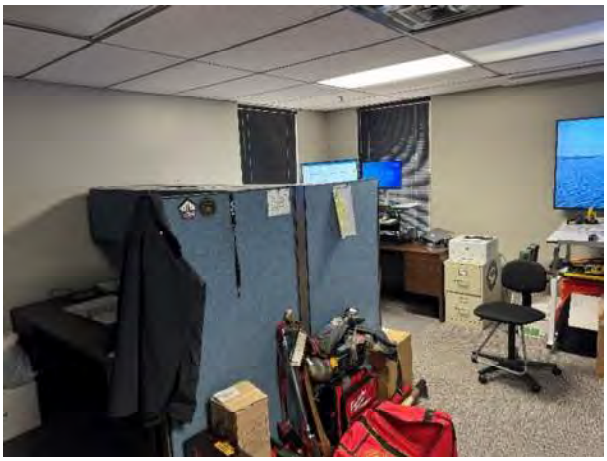

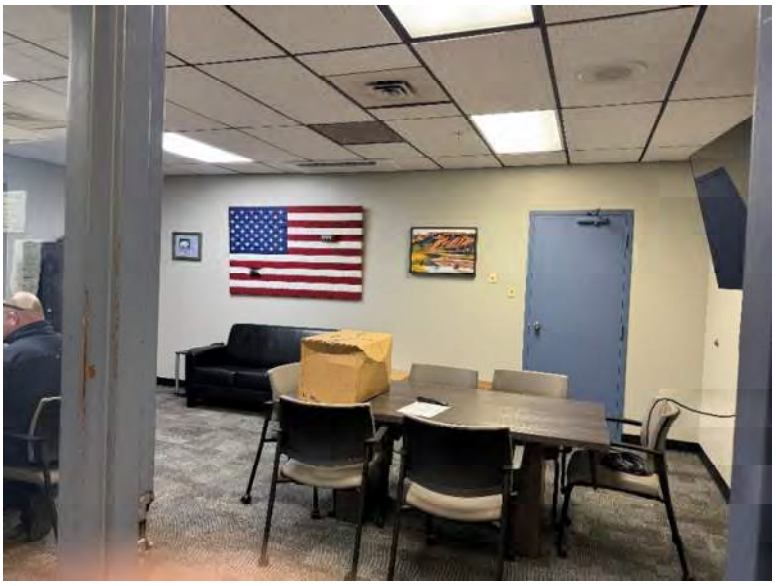

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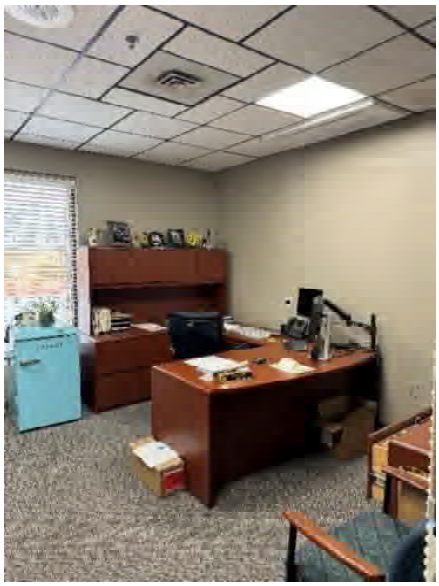

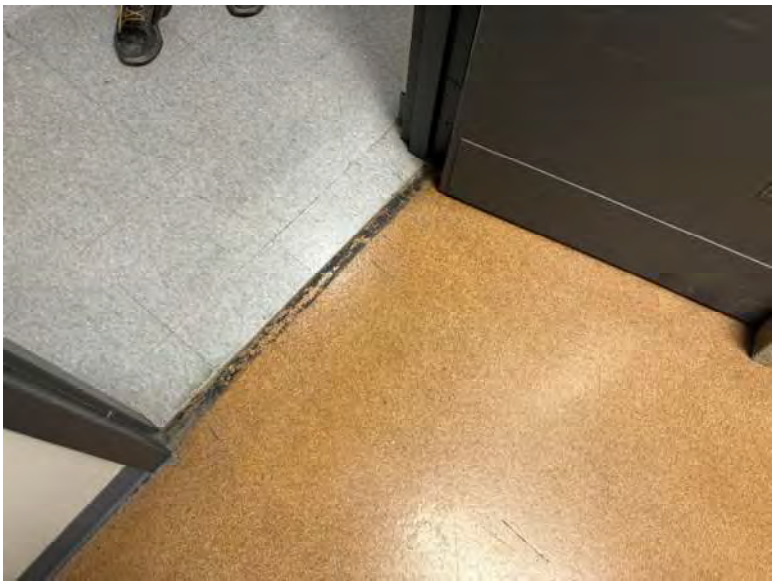

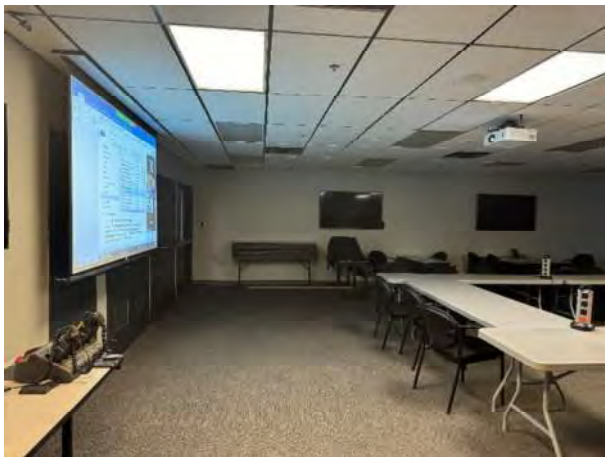

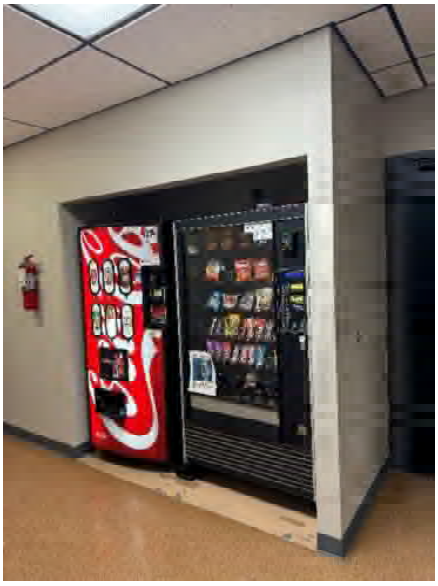

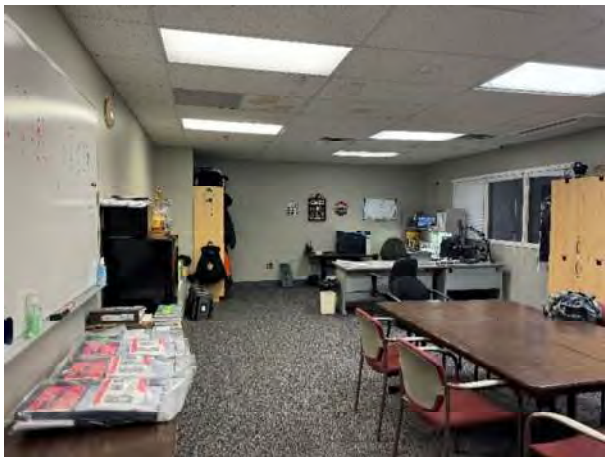

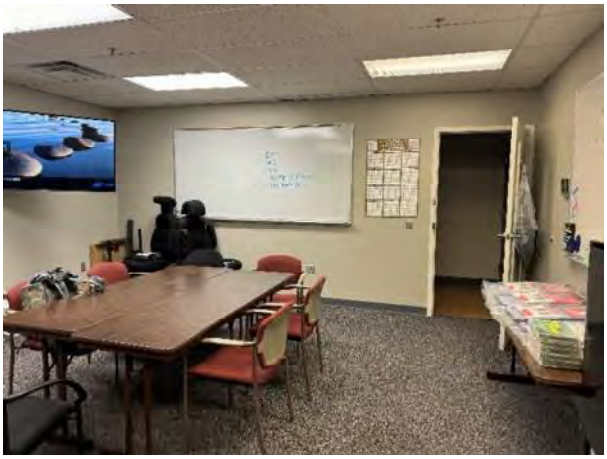

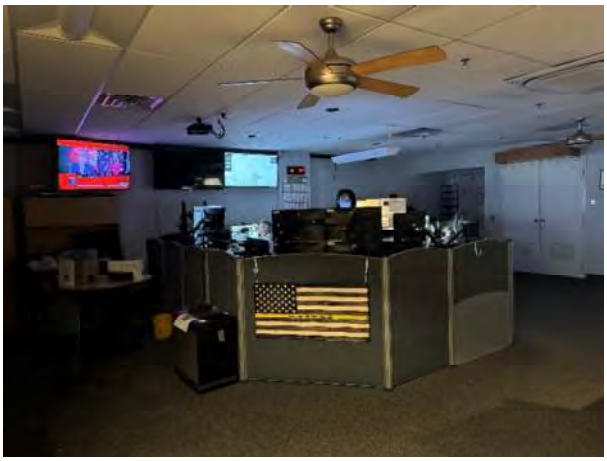
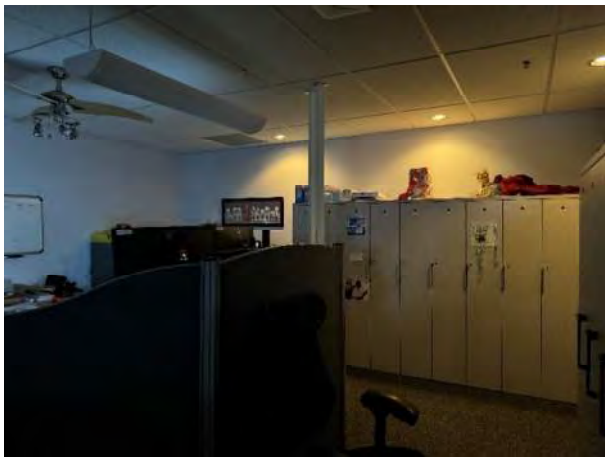

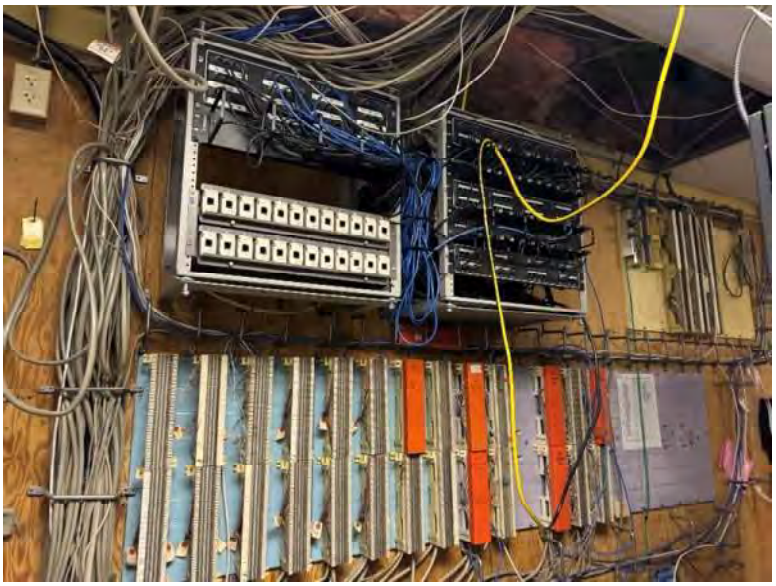
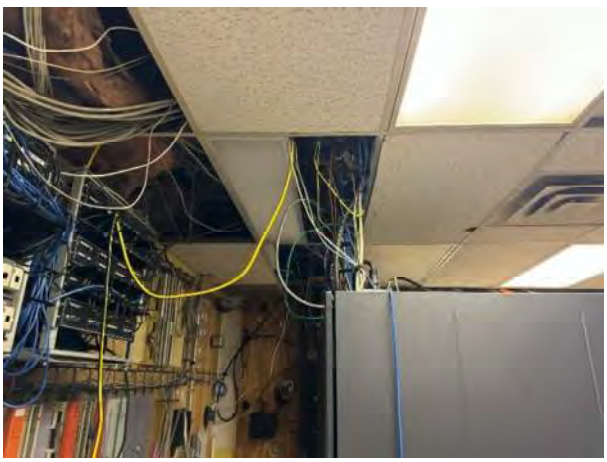

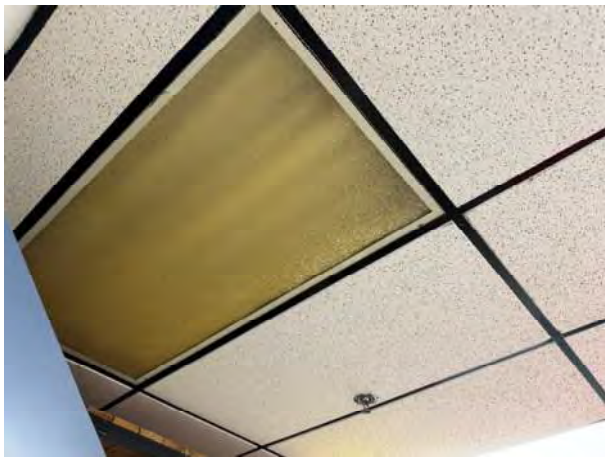

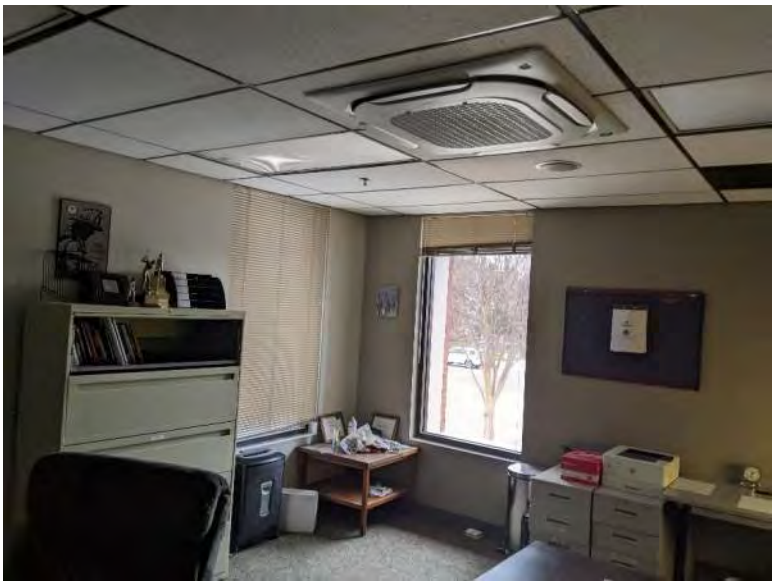

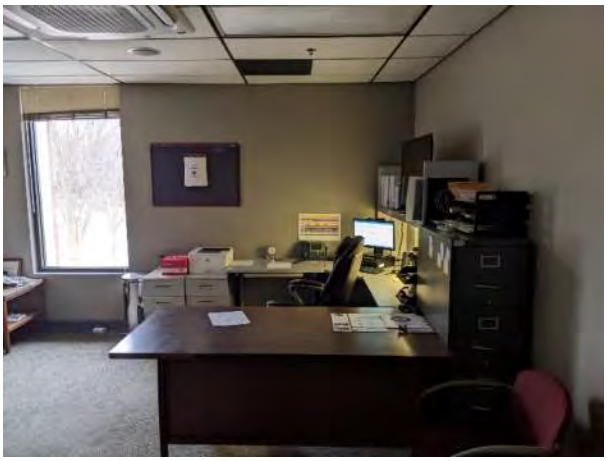

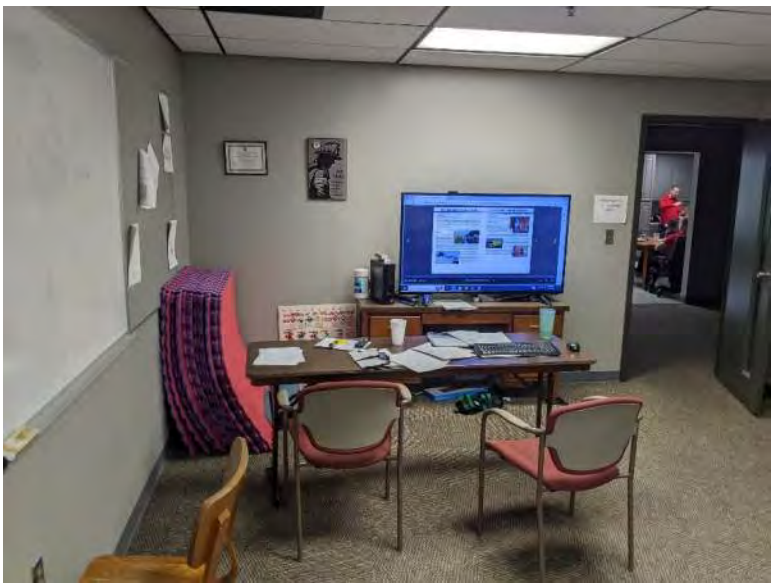

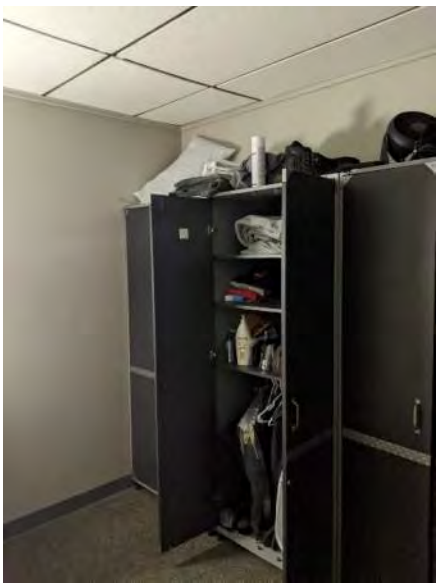

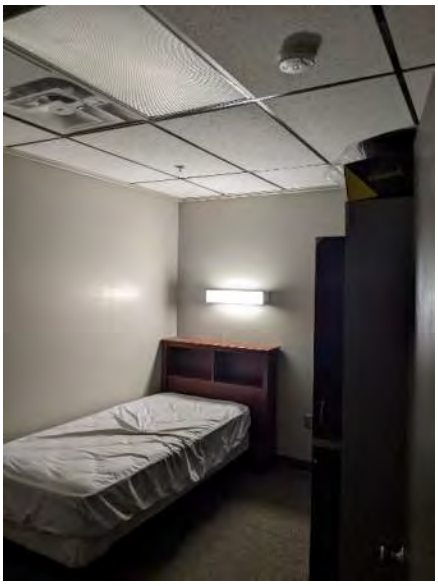

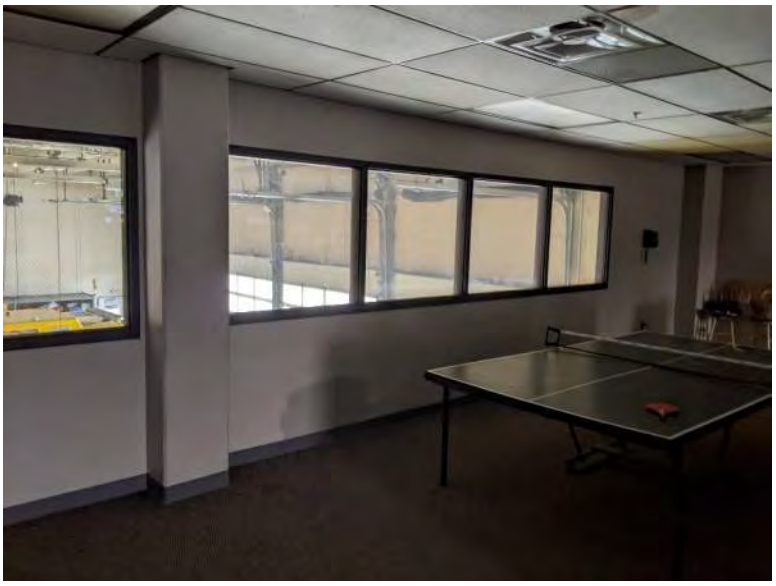

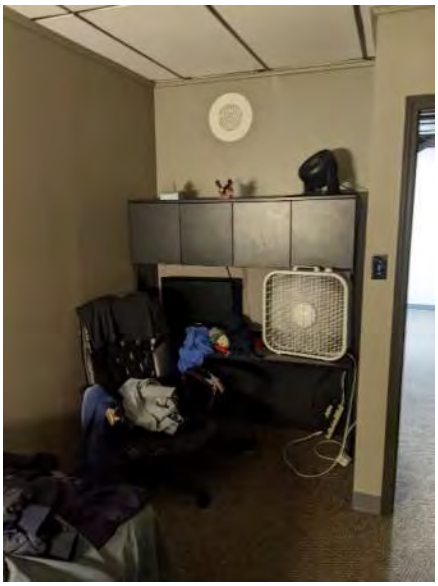

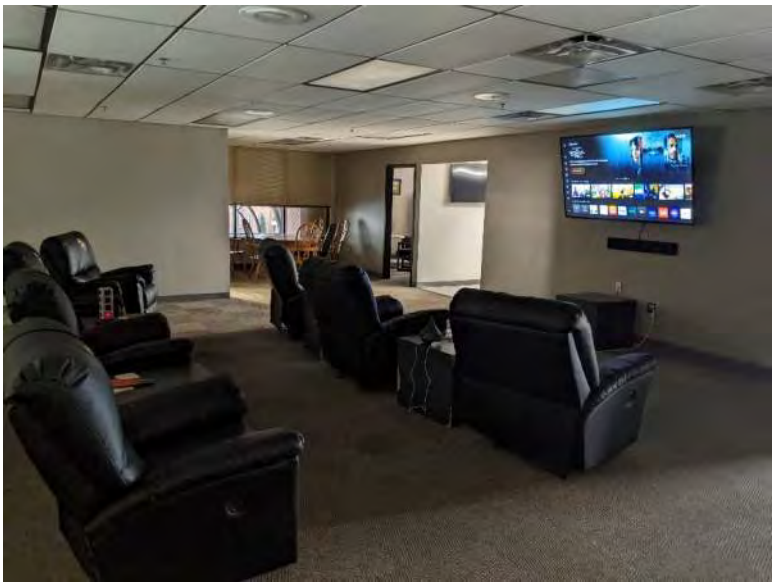

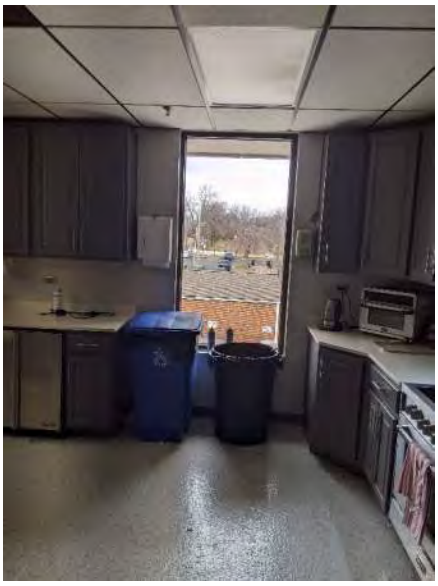
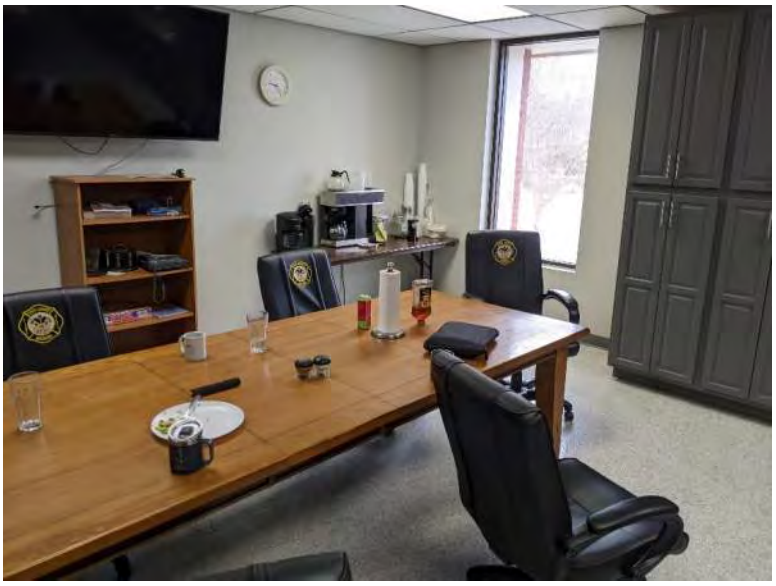

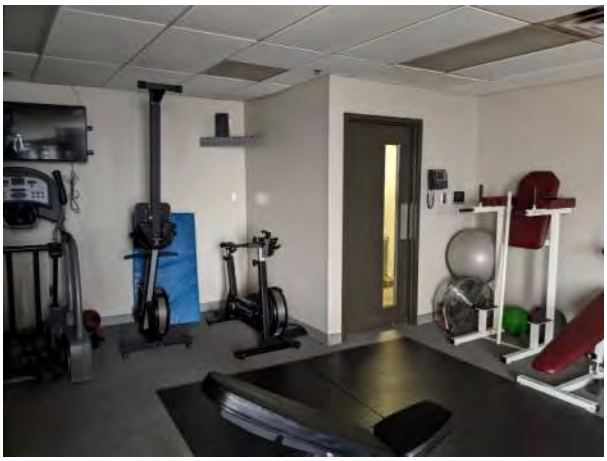
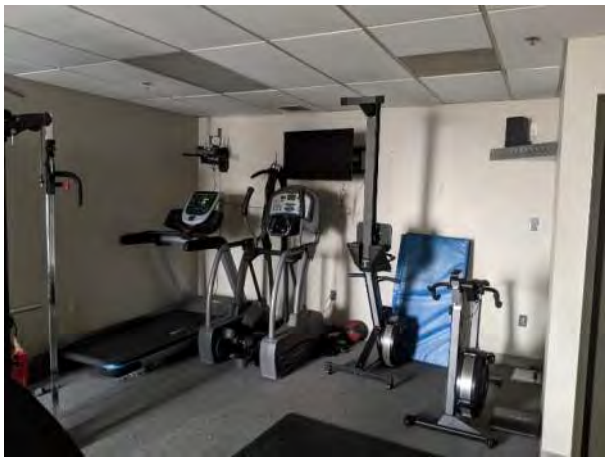

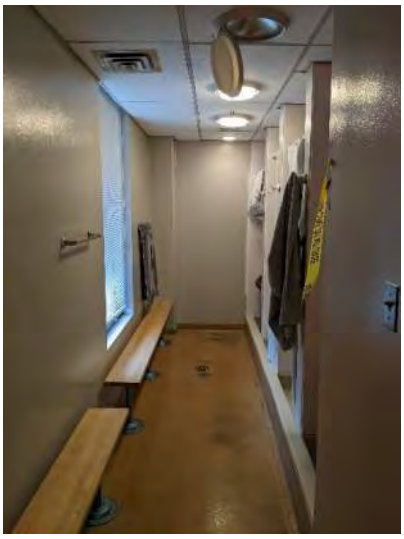
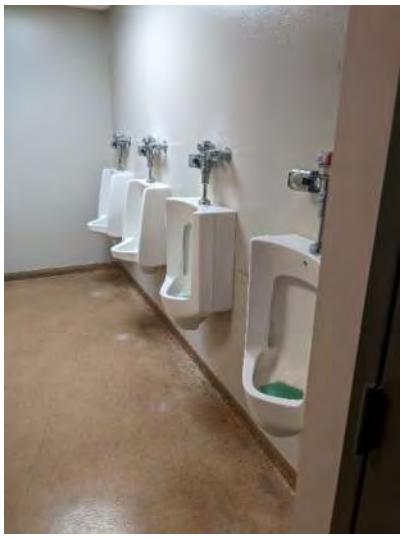
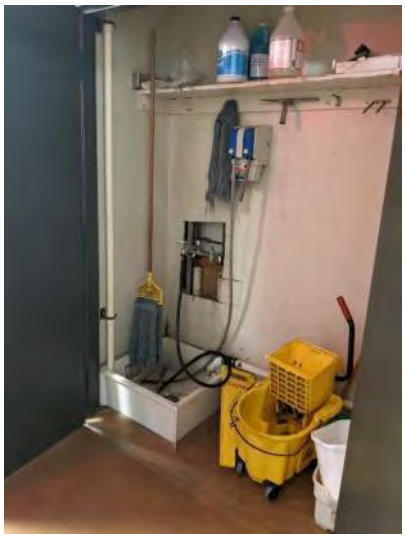
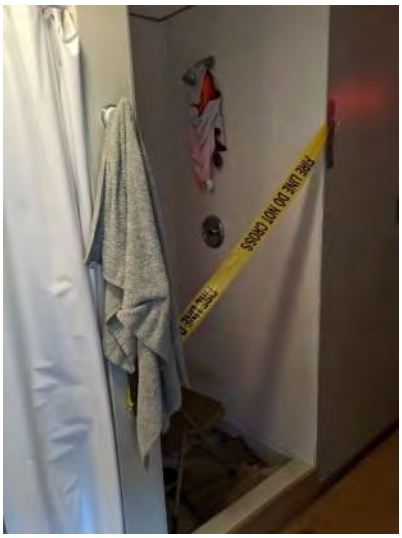
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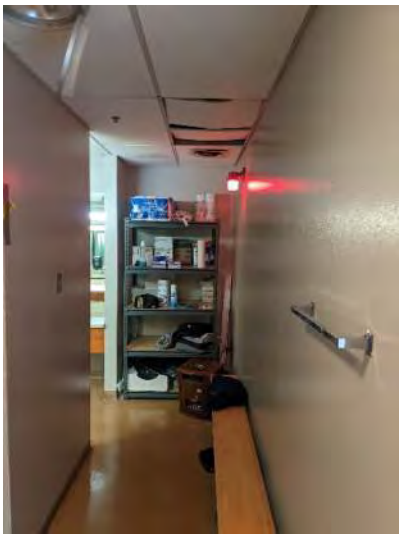
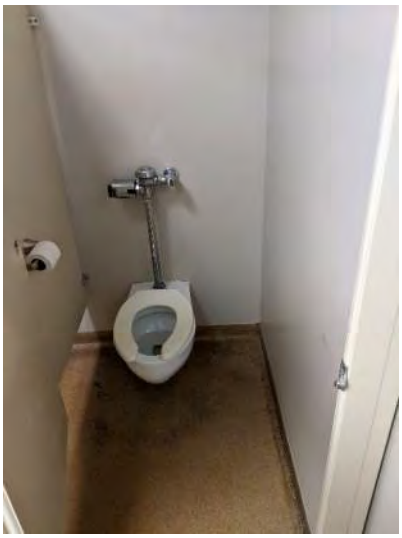

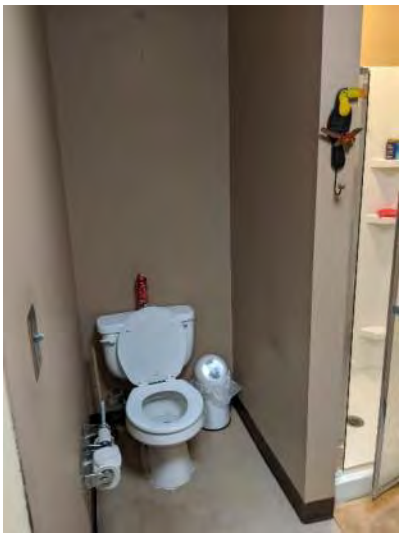

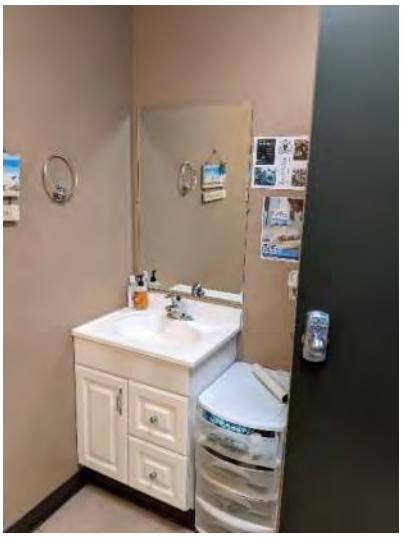

Appendix C – Structural Engineering Assessment Report

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ENGINEERING ASSESSMENT REPORT

Introduction

The design code used for the existing Fire Station #1 is not listed in the construction documents. The current design code for the City of Lee's Summit is IBC 2018. Below is a comparison of the design loads shown on the existing construction documents versus the design loads that would be required for the current building code using Risk Category IV.

Existing Structure Type

The existing structure is comprised of precast elements for the walls, floors, and roof structure. The precast elements are composed of double tee sections, inverted tee beam girders, and precast columns. The wall dividing the apparatus bay and the living quarters is a precast shear wall. The exterior of the building is load bearing double tee members.

Gravity Loading

1. Roof Loading
    a. Loads Listed on Existing Drawings
        i. Design Live Load — 30 psf
        ii. Superimposed Dead Load — 10 psf
    b. Current Code Load
        i. Live Load — 20 psf
        ii. Balanced Snow Load — 24 psf
2. Second Floor Framing Loading
    a. Loads Listed on Existing Drawings
        i. Design Live Load — 50 psf
            1. Partitions @ Office & Dorm — +20 psf
    b. Current Code Load
        i. The current IBC does not have prescriptive live loading specific to fire stations. This creates some ambiguity in the code regarding which live loading should be used for this type of facility. The generally accepted practice is to design fire facilities for office building live loading and/or design them for hotels and multifamily live loading. These assumptions would result in the following live load requirements for floors above the first level:
            1. Office buildings, corridors above first floor – 80 psf
            2. Office buildings, offices 50 psf + 15 psf
            3. Hotels, private rooms and corridors serving them – 40 psf
            4. Hotels, public rooms and corridors serving them – 100 psf

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3. First Floor Framing Loading
    a. Loads Listed on Existing Drawings
        i. Design Live Load 50 psf
            1. Partitions @ Office & Dorm +20 psf
            2. Vestibule & Waiting Room 100 psf
    b. Current Code Load
        i. Design Live Load 100 psf
            1. This live load can be conservatively used for all the floor space. Corridors and Lobbies must be 100 psf, and corridors on the second floor must be 80 psf. Some of the designated rooms may be able to be justified as 50 psf + partition loads.

Lateral Loading on Main Lateral Force Resisting System

1. Wind Loading on Walls
    a. Load Listed on Existing Drawings
        i. Design Wind Load 25 psf
    b. Current Code Load
        i. Wind Load Peak Velocity Pressure 21.12 psf

2. Seismic demand
    a. The existing building was designed and constructed during the mid-1970's. Seismic design criteria were not implemented in the Midwest for the most part till the mid to late 1980s. Therefore, it is our assumption that no seismic design considerations were considered for the design of this structure. Nothing on the existing documents addresses seismic design criteria for the building. A separate seismic specific report will be included. Our findings will be listed in that report for all possible options regarding seismic analysis of the existing building.

Existing Structure Evaluation

A site visit was conducted to review the condition of the existing structure. The structure was found to be in acceptable condition given the age and construction type. Our review is limited to site observations only, and portions of the structure that are visible. Most of the structure is not visible due to architectural finishes. The exterior of the building underwent a remodel that added brick veneer to the exterior. The brick façade appears to be in general good condition with no significant signs of settlement or mortar cracking. Two items were identified in our site visit as areas of possible structural concern. Those items will be documented below.

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Locations identified in site visit.

1. Double Tee roof beam at northwest corner of apparatus bay. It appears the double tee member might have been cast short and does not have full bearing on the precast wall corbel. There is a minor crack propagating from the double tee web at 45 degrees in the flange. We cannot determine with certainty why this double tee appears to be short. It is our opinion that this member was likely cast short and determined at the time of erecting to still be within acceptable tolerance for the precaster. While we cannot rule out movement of the structure which has caused this double tee member to shift, we would anticipate other signs of movement which were not perceived at the time of our visit. Therefore, we would conclude this was a precast fabrication error.
2. Spalling of precast concrete stairs at north exterior on grade exit. The bottom of the precast stair that leads to the basement level has a significant spalled piece of concrete at the stair to landing transition. This spall has comprised the concrete cover on the reinforcement and with repeated freeze thaw cycles and exposure to de-icing chemicals will lead to corrosion of the reinforcement. Removal of the spall and patching of the precast member is recommended.

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Figure 1: North exit stair concrete spall.

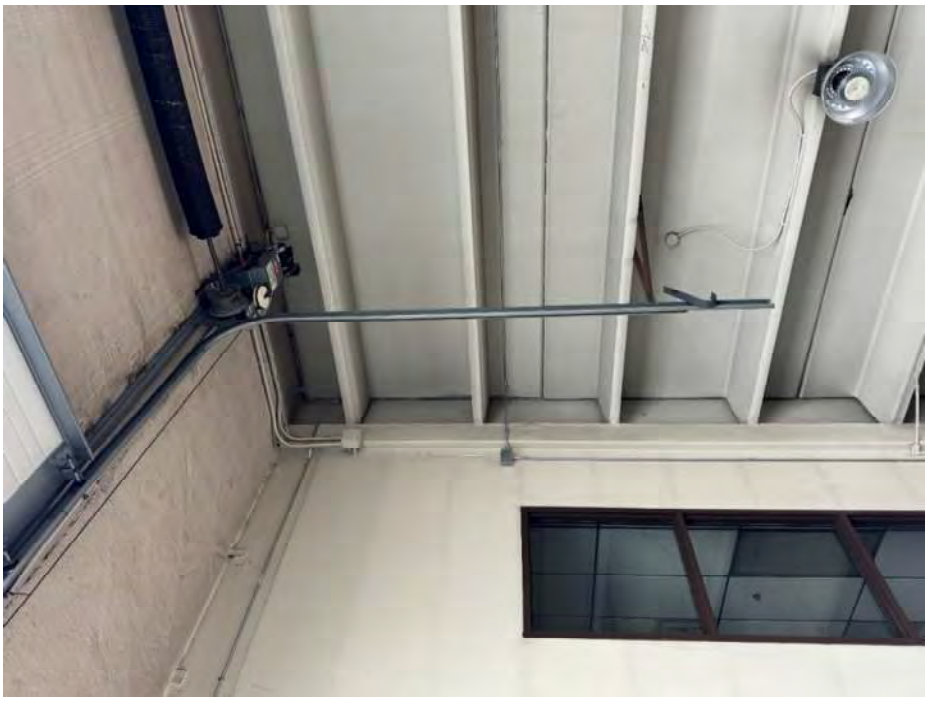

Figure 2: Precast double tee bearing on precast corbel.

Appendix D – Seismic Evaluation Report

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Seismic Evaluation Report Lee's Summit Fire Station #1

207 SE Douglas

Prepared for: City of Lee's Summit, MO

April 17, 2024

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Improving Lee's Summit Fire Station 1: Assessing Seismic Retrofit Possibilities

Background

Lee's Summit Fire Station 1, a cornerstone of downtown Lee's Summit, Missouri, has stood since the 1970s. In response to a request from the City of Lee's Summit, Missouri, Leigh + O'Kane conducted a seismic assessment of the building. This voluntary review aims to explore the potential for retrofitting and remodeling the facility to meet contemporary industry standards for fire safety facilities. It's important to note that this assessment isn't intended to bring the structure up to current building code standards. Instead, it follows the guidelines outlined in the ASCE 41 document, allowing facility owners to establish performance objectives and determine if they can be achieved.

Purpose

The city has expressed a desire to explore the feasibility of renovating the existing facility. As part of this process, a seismic evaluation is necessary to assess whether structural retrofitting of the existing lateral load resisting system is needed, feasible, and economically viable.

Methodology

The assessment began with a Tier 1 screening, a checklist-based procedure that identifies potential deficiencies based on the performance of similar buildings in past earthquakes. No nondestructive testing was conducted during this phase, and observations were limited to visual inspections using the original construction drawings provided by the City of Lee's Summit.

Key Information

Subject Property	Fire Station #1
Address	207 SE Douglas Lee's Summit, MO
Latitude and Longitude	38.913654, -94.376582
Risk Category	IV
Basic Performance Objective for Existing Buildings (BPOE)	Life Safey Structural Performance at BSE-2E Immediate Occupancy Structural Performance at BSE-1E

Understanding the Performance Objectives

The BSE-1E and BSE-2E represent earthquake hazards with a 20% and 5% probability of exceedance in 50 years, respectively. For comparison, new buildings are typically designed to withstand the Maximum Considered Earthquake (MCE), which has a 2% probability of exceedance in 50 years. A longer return period signifies a rarer, more severe earthquake event.

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Analytical Approach

The ASCE 41 Tier 1 procedure involves a series of checklists to identify deficiencies quickly. Following the Tier 1 screening, a Tier 2 analysis is conducted to more accurately assess element demands and capacities identified as deficiencies in Tier 1.

Site Information

General

The building is in the downtown area of Lee's Summit Missouri.

Geotechnical and Seismic Hazard Information

Site-specific geotechnical report provided by Terracon was conducted on the property. The seismic site classification Class C.

Building Information

The building per the provided record drawings appears to have been constructed in the 1970s. Structure is precast concrete members comprised of double tee's, inverted tee girders, columns, and shear walls. 2 ½" topping slabs used on level 1 and level 2. The building is a 2-story structure with a below grade basement level under half of the building. Based upon review of the existing documents lateral loads in the building are assumed to be transfer to the foundations through precast wall separating the apparatus bay from the operations side of the building and through the double tee exterior load bearing walls. The double tee exterior load bearing walls are assumed to be connected to one another to create shear walls with aspect ratios that meet the ASCE 41 standards. Due to the nature of precast concrete design and construction the record drawings do not indicate the reinforcement and all connections of the precast members to one another. This design of the precast members is typically handled by the precast fabricator. The fabricator is responsible for creating shop drawings showing all reinforcement and connection details that the engineer of record reviews during the submittal phase of the project. Those shop drawings were not provided for our review of the building, therefore certain assumptions and/ or unknown status has been determined where that information is necessary for our evaluation. The building is an ASCE 41 type PC2 structure. Level of seismicity as defined per ASCE 41 table 2-6 is Low. This classification represents that this area of the county experiences low seismicity.

Tier 1 Structural Deficiencies

The following items were deficiencies identified as part of the Tier 1 assessment.

1. Topping slab: at precast concrete diaphragm elements not provided at all levels. The roof level diaphragm does not appear to have a topping slab poured.
2. Transfer to shear walls: diaphragms are connected for transfer of seismic forces to the shear walls. Per the construction documents no connection of topping slab was shown to the wall.

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3. Topping slab to walls or frame: reinforced concrete topping slabs that interconnect the precast concrete diaphragm elements are doweled for transfer of forces into the shear wall. Construction documents do not indicate connection.
4. Foundation dowels: wall reinforcement is doweled into the foundation. No dowels indicated on 1/S-2.
5. Reinforcing steel: the ratio of the reinforcing steel area to gross concrete area is not less than 0.0012 in vertical and 0.002 in horizontal. Spacing of steel is equal or less than 18 in. reinforcing of the precast elements is not provided in the construction documents therefore unknown.
6. Precast connections: buildings with concrete shear walls, the connection between precast frame elements and the seismic-force-resisting system develops the capacity of the connected members. No connection details shown in construction documents therefore unknown.
7. Confinement reinforcing: for shear walls with aspect ratios greater than 2 to 1, the boundary elements are confined with spirals or ties with spacing less than 8db. No reinforcement of precast elements shown in construction documents therefore unknown.

Tier 2 Analysis

The ASCE 41 Tier 1 procedure consists of a series of checklists that quickly identify deficiencies. Based on the Tier 1 results, a Tier 2 analysis is performed to more accurately analyze element demands and capacities.

Missing building elements causing a Tier 1 deficiencies (such as topping slab, transfer to shear walls, and foundation dowels) were not required to be analyzed under the Tier 2 procedure. These elements are required to meet the BPOE and need to be installed as part of any seismic rehabilitation.

Other items identified in the Tier 1 analysis cannot be further invested without precast shop drawings and or further non-destructive testing to determine reinforcement.

Additions and Alterations to Existing

Introduction

If alterations or additions are made to the existing building the following section would be applicable and needs to be met in addition to the ASCE 41 findings. Per the ASCE 7 if certain thresholds are exceeded in modifying the existing structure and / or additions made to an existing building then the entire structure must be brought up to current building code.

Appendix 11 B Existing Building Provisions

The provisions shall apply to the design and construction of alterations and additions to existing structures.

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Structurally Independent Additions

An addition that is structurally independent from an existing structure shall be designed and constructed in accordance with the seismic requirements for a new structure. This can be an option for any proposed additions to the existing site assuming no modifications to the existing building are required.

Structurally Dependent Additions

Where an addition is not structurally independent from an existing structure, the addition and alterations to the existing structure shall be designed and constructed such that the entire structure conforms to the seismic force-resistance requirements for new structures.

Exceptions: The entire structure shall not be required to comply where all the following conditions are met:

1. The addition complies with the requirements for new structures.
2. The addition does not increase the seismic forces in any structural element of the existing structure by more than 10% unless the capacity of the element subject to the increased forces is still in compliance with this standard.
3. The addition does not decrease the seismic resistance of any structural element of the existing structure unless the reduced resistance is equal to or greater than that required for new structures.

Alterations

Alterations that increase the seismic force in any existing structural element by more than 10% or decrease the design strength of any existing structural element to resist seismic forces by more than 10% shall not be permitted unless the entire structure is determined to comply with provisions for a new structure.

Deficiencies

Elements of the building that do not meet current standards for new buildings that would require replacement or modifications to meet new building standards are as follows:

1. Ordinary precast shear walls are not permitted to be used in the seismic force resisting system for seismic design category C. Based upon the intended usage and site-specific data this building is a seismic design category C building. Intermediate precast shear walls are permitted to be used. Design requirements for intermediate precast shear walls are greater than ordinary precast shear walls. It is our judgment that the existing precast shear walls will not meet the requirements of intermediate precast shear walls and therefore will have to be replaced with new walls. This will require removal of all precast exterior walls and the separation wall between the apparatus bay and the living quarters. The replacement walls can be any of the following: cast-in-place concrete, precast concrete, or masonry.
2. Foundation Ties. Individual pile caps, drilled piers, shall be interconnected by ties. Currently the apparatus bay is on drilled piers and does not have interconnected ties in both directions. These tie elements would need to be added to the foundation system to meet the requirements for new buildings. This will require removal of the existing slab in the

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apparatus bay and excavation and placement of new concrete tie-beams between all columns that are currently on drilled piers.

Conclusions

Seismic demands have increased, and detailing demands have become more stringent since the original construction of the building. Some construction methods which were acceptable at the time of construction would not be acceptable by current building standards for new construction. The purpose of an ASCE 41 assessment is not to assess the building to current building code standards for new buildings but to identify deficiencies of the building construction which may keep them from meeting the desired structural performance levels. The specific deficiencies and mitigation recommendations are described in the sections. If a seismic strengthening for a building is desired, more detailed seismic analysis and construction documents can be prepared for permit submission and construction.

If the desire or need for alterations and additions is determined to be the path for the design team, then provisions in the ASCE 7 will need to be followed. The specific thresholds for those alterations and additions are described in the section Additions and Alterations.

The above conclusions represent two possible paths for structural scope of work on this facility. The appropriate path will be determined once the conceptual design for the overall project is determined. Consideration for architectural, mechanical, plumbing, and electrical work will need to be considered to determine if retrofit of the existing structure or holistic structural system replacement of required elements will be necessary.

Thank you for the opportunity to be of service. Please do not hesitate to call with any questions regarding the analysis.

Leigh + O'Kane, L.L.C.
Adam C. O'Kane, P.E.
Principal

Appendix E – Adjacent Off-Site Buildings / Structures Photos

Edward Jones

Appendix F – City / Fire Deficiency List

Fire Station 1 Deficiency List

- Not sure how to replace/repair the north lot entrance step.
- Roof is in poor condition
- All breaker panels/switchboards in the entire building. Difficult to keep up with electrical demands in apparatus bay, continually damaging equipment from low voltage.
- Multiple areas not on generator power.
- Automatic transfer switch for generator.
- Plumbing, collapsed lines under the building. Frequent pluming backups and failures.
- Drain in north stairwell will not drain (it has collapsed), creating ice/water hazard for employees.
- Parking areas on north and south of building are in poor condition.
- Drainage system in the apparatus bay does not meet capacity.
- Water heaters are in poor condition.
- Grade of back ramp is not conducive (too steep) for all apparatus.
- Exterior lighting needs replacement.
- Not ADA compliant.
- Unable to totally stop leak that goes into our server room in the Communications Center.
- Wi-Fi locks intermittent and challenging for employees. Would like to see hard wired.
- No gear extractor capabilities or decontamination shower or washer and dryer areas for crews before entering cold zone.
- Concrete in apparatus bay is deteriorating.
- Due to building restraints, no good location for washer and dryer in living areas (had to be put in a closet).
- No good area for crews to grill/cook outside.
- Floor loading limitations on the first and second floors - limits potential uses.
- Multiple post-occupancy penetrations through floors and walls throughout the years
- Continued bubbling/failure of paint on the upper portion of building
- Deteriorating utility mains coming into the building
- Minimal natural gas pressure availability throughout building, especially the second floor

Appendix G – Testing & Reports

Phase One Environmental Assessment

Hazardous Materials Testing

Geotechnical Report

Survey

Title Report

Phase I Environmental Site Assessment

Fire Station #1

207 SE Douglas St

Lee's Summit, Jackson County, MO

February 12, 2024 | Terracon Project No. 02237353

Prepared for:

WSKF Architects
110 Armour Rd
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Prepared by:

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February 12, 2024

WSKF Architects
110 Armour Rd
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Attn: Dalyn Novak
P: (816) 300-4101
E: dnovak@wskfarch.com

Re: Phase I Environmental Site Assessment
Fire Station #1
207 SE Douglas St
Lee's Summit, Jackson County, Missouri
Terracon Project No. 02237353

Dear Ms. Novak:

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 Terracon Proposal No. P02237353 dated November 7, 2023.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I 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.

For:

Madeleine Quick
Assistant Scientist

Tracie A. Ragland
Senior Scientist

Attachments

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P02237353 dated November 7, 2023 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 Tracie A. Ragland, Environmental Professional. Madeleine M. Quick and Tracie A. Ragland performed the site reconnaissance on February 7, 2024.

Findings and Opinions

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

Site Description and Use

The site is located at 207 SE Douglas St in Lee's Summit, Jackson County, Missouri and currently contains Lee's Summit Fire Station #1 which was built in the 1970's. The building contains approximately 14,275 square feet of space on the ground floor (offices and equipment bay), an approximate 6,800-square foot second floor (living quarters), and an approximate 6,800-square foot basement (meeting rooms and dispatch). The first floor offices, second floor, and basement are located in the northwest portion of the building while the four-bay equipment area is located on the southeast portion of the building. The remainder of the site consists of a cell tower and associated compound, parking areas, and minimal landscaping.

Historical Information

Based on a review of the historical information, the site has primarily consisted of two dwellings from approximately 1927 until the mid-1960's when one dwelling was replaced with one commercial building and remained until the early 1970's when Fire Station #1 was built on the site. The surrounding properties have largely consisted of dwellings and related structures from approximately the mid-1890's until a filling station was built to the southeast of the site in approximately 1940 until it was replaced by commercial structures in approximately 1990. In the early 1950's, dwellings to the southwest were replaced with commercial buildings. Dwellings to the northwest were replaced by commercial buildings in the mid 1960's. Dwellings to the northeast were removed and the land was graded in approximately 1969, a commercial building was built in 1975, and in 2006, the present-day parking garage replaced the commercial building.

The 1918 fire insurance map depicts a 50 or 550-gallon buried gasoline tank in Douglas St approximately 140 feet south of the site, in an apparent topographic up to cross-gradient position from the site. The capacity of the tank is not clearly readable on the fire insurance map. From 1927 to 1945, two gasoline tanks, capacity not noted, were depicted in Douglas St approximately 130 feet south of the site at a garage, in an apparent topographic up to cross-gradient position from the site. The 1945 fire insurance map depicts a filling station and three oil tanks, capacity not noted, on the southeast-adjoining property, in an apparent topographic up to cross-gradient position from the site. Summit Oil Co was identified on the southeast-adjoining property in city directories at 211 SE Douglas St in an apparent topographic up to cross-gradient position from the site from approximately 1962 to 1987. Collectively, based on proximity to the site, apparent topographic gradient, and length of operations, the historical gasoline tanks, oil tanks, and filling station represent a REC to the site due to likely unknown releases which may have resulted in migration of contaminants onto the site.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. Several facilities were identified within the specified search distances of the site. The site, Lee's Summit Fire Department, was identified on the Leaking Underground Storage Tank (LUST), Facility Index System (FINDS), Recovered Government Archive (RGA) LUST, Emergency Response Notification System (ERNS), SPILLS, and Underground Storage Tank (UST) databases. According to the 2020 MDNR No Further Action letter, "The closure report indicates SCS Engineers adequately evaluated these risks and the closure requirements for the tank listed above, using MRBCA non-residential target levels." Based on No Further Remediation letters these listings do not represent a REC to the site at this time.

Based on facility information, distance, and/or topographic gradient relative to the site, the remaining listed facilities do not constitute RECs associated with the site.

Site Reconnaissance

The following features were observed at the site during site reconnaissance: four pole-mounted transformers and one pad-mounted transformer, several interior floor drains and janitors basins, two trench drains, a sump, multiple 5-gallon containers of alcohol-resistant aqueous film-forming foam (AR-AFFF), four ~3-5 gallon gas/diesel cans, two natural gas-powered emergency generators, one air compressor, and one RevolveAir fill station with multiple ~425 to ~680-liter canisters filled with breathing air.

RECs were not observed on site at the time of the site reconnaissance.

Adjoining Properties

The current day adjoining properties were observed to be the following:

- To the northeast: A parking garage and Lee's Summit City Hall
- To the southeast: A vacant commercial building
- To the southwest: Edward Jones and a personal training studio
- To the northwest: State Farm and Realty One Group

RECs were not observed with the current day adjoining properties.

Significant Data Gaps

No Significant Data Gaps were identified.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at 207 SE Douglas St, in Lee's Summit, Jackson County, Missouri, the site. The following Recognized Environmental Conditions (RECs) were identified in connection with the site:

- Collectively, based on proximity to the site, apparent topographic gradient, and length of operations, the historical gasoline tanks, oil tanks, and filling station historically located south and southeast of the site represent a REC to the site due to likely unknown releases which may have resulted in migration of contaminants onto the site.

Recommendations

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

- Terracon recommends conducting additional investigation to evaluate subsurface conditions associated with the identified RECs.

Additionally, if site use changes from non-residential to residential, additional evaluation of subsurface conditions concerning the former use of the onsite USTs may be necessitated.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Fire Station #1
Site Location / Address	207 SE Douglas St, Lee's Summit, Jackson County, Missouri
Land Area	Approximately 0.94 acres
Site Improvements	The site is developed with a building which contains approximately 14,275 square feet of space on the ground floor (offices and equipment bay), an approximate 6,800-square foot second floor (living quarters), and an approximate 6,800-square foot basement (meeting rooms and dispatch). The first floor offices, second floor, and basement are located in the northwest portion of the building while the four-bay equipment area is located on the southeast portion of the building. The remainder of the site consists of a cell tower and associated compound, parking areas, and minimal landscaping.
Anticipated Future Site Use	Similar to current use
Reason for the ESA	Demolition or renovation

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

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P02237353 dated November 7, 2023 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." 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.

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, expressed or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information

requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- Due to vehicular obstructions, surface conditions could not be observed on portions of the site. However, based on observations of the remaining portions of the site and review of historical maps in Section 3.1 of this report, this limitation is not anticipated to alter the conclusions of this report, or prevent the Environmental Professional's (EP's) ability to identify RECs, and is therefore not significant.
- A response has yet to be received from the City of Lee's Summit Codes Administration and Fire Department. However, based on the available information (database reviews and online resources), and an in person interview with the onsite Fire Captain, this limitation is not anticipated to alter the conclusions of this report, or prevent the EP's ability to identify RECs, and is therefore not significant.
- The client did not provide the requested User's information as of the issuance date of the report, which represents a data gap. Terracon assumes the client is evaluating the questionnaire information outside the context of Terracon's Phase I ESA scope of work and report. However, based on the available information utilized in the preparation of this report, this limitation is not anticipated to alter the conclusions of this report, or prevent the EP's ability to identify RECs, and is therefore not significant.

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 WSKF Architects Inc. Use or reliance by any other party is prohibited without the written authorization of WSKF Architects Inc 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, Dalyn Novak, client's representative, 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	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.	X		
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.	X		
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.	X		
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.	X		
Obvious Indicators of Releases at the site.	X		

The client did not provide the requested User's information as of the issuance date of the report, which represents a data gap. Terracon assumes the client is evaluating the

questionnaire information outside the context of Terracon's Phase I ESA scope of work and report.

2.0 PHYSICAL SETTING

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 1,020-1,030 feet above sea level	USGS Topographic Map, Lee's Summit and Lake Jacomo, Missouri Quadrangles, 1996 (Appendix A)
Topographic Gradient	Sloping towards the northeast	
Closest Surface Water	Pond, approximately 5,120 feet northeast of the site.	
Soil Characteristics		
Soil Type	Urban land, upland, 5 to 9 percent slopes	Jackson County, MO USDA-NRCS Web Soil Survey viewed January 31, 2024
Description	The Urban land (upland) is found on 5 to 9 percent slopes. Generally, more than 85% of the surface is covered by asphalt, concrete, buildings or other impervious material. Examples include the following: parking lots, shopping and business centers, railroad yards, and industrial areas. The largest portion of this unit is the Kansas City central business district. They are on the bluffs adjacent to the Missouri River flood plain. These areas are on upland landscapes, the majority of which have undergone cut and fill excavating to reshape the landforms. Identification of the soil types is not practical because of the lack of accessibility and the extreme variability of the soils.	
Geology/Hydrogeology		
Formation	Kansas City Group and Pleasanton Group	State of Missouri, Division of

Physical Setting Information		Source
Description	Jackson County is located near the middle of an approximate 150-mile wide, north-south trending band of Pennsylvanian Age rocks that is located in western Missouri and eastern Kansas. Generally, the rock beds exhibit a subtle prevailing dip to the west-northwest. A prominent section of Pennsylvanian rock strata is well-exposed in Kansas City, Missouri, in the bluffs along the Missouri River. According to The Stratigraphic Succession in Missouri, Missouri Department of Natural Resources (revised in 1995), the region is underlain by rock units of the Pennsylvanian System and the Missourian Series (Kansas City Group and Pleasanton Group) in the Time Stratigraphic Unit age classification. Alternating layers of shales and limestone, with an occasional sandstone layer, are common in the Kansas City Group. Alternating layers of shale and sandstone, with an occasional coal seam and limestone layer, are present in the Pleasanton Group.	Geological Survey and Water Resources, Guidebook Field Trip Geology of the Kansas City Group at Kansas City, RI 31, November 1965 Geological Map of Missouri, Missouri Geological Survey, Missouri Department of Natural Resources (MDNR), 1979
Estimated Depth to First Occurrence of Groundwater	Approximately 10-20 feet below ground surface	*MDNR Missouri Geological Survey GeoSTRAT Online Map
**Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the northeast).	

*https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=3ac3a61da4af4834811503a24a3cb935

**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 were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs, and Sanborn maps are summarized below.

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

- Topographic maps: EDR, Lee's Summit, 2021, 2017, 2015, 1996, 1995, 1975, 1971, 1970, 1964, 1957, 1949, and 1934 (1:24,000); Lee's Summit, 1939 (1:31,680); Harrisonville, 1894, 1892, and 1887 (1:125,000)
- Aerial photographs: EDR, USDA/NAIP, 2020, 2016, 2012, 2009, and 2006 (1"=500'); USGS/DOQQ, 1996 and 1990 (1"=500'); NHAP, 1985 and 1981 (1"=500'); USDA, 1979, 1976, 1969, 1957, 1952, 1940, and 1936 (1"=500')
- Sanborn Fire Insurance Maps: 1893*, 1898*, 1909*, 1918*, 1927, 1935, and 1945 (scale on maps)

Historical Maps and Aerial Photographs

Direction	Description
Site	1894-1887: The site and surrounding properties are located in an urban developed area of Lee's Summit. 1927-1964: Two apparent dwellings 1969-1970: One apparent commercial building and parking areas 1975-2021: Lee's Summit Fire Station

Direction	Description
Northeast	1894-1887: The site and surrounding properties are located in an urban developed area of Lee's Summit. 1927-1964: One dwelling and two small sheds 1969: Vacant, graded land 1975-1996: One apparent commercial building and parking lot 2006-2021: One apparent parking garage
Southeast	1894-1887: The site and surrounding properties are located in an urban developed area of Lee's Summit. 1909-1935: An alley, followed by two dwellings and one garage. The 1918 fire insurance map depicts a 50 or 550-gallon buried gasoline tank in Douglas St approximately 140 feet south of the site. The capacity of the tank is not clearly readable on the fire insurance map. From 1927 to 1945, two gasoline tanks, capacity not noted, were depicted in Douglas St approximately 130 feet south of the site at a garage. 1940-1985: The 1945 fire insurance map depicts a filling station and three oil tanks, capacity not noted, on the southeast-adjoining property. 1990: One commercial building 1995-2021: Two commercial buildings
Southwest	1893-1898: Four dwellings and several small sheds 1909-1918: Five dwellings and several small sheds 1927: Six dwellings and several small sheds 1934-1936: Five dwellings and several small sheds 1939-1949: Four dwellings and several small sheds 1952-1976: One commercial building 1979-2021: Two commercial buildings
Northwest	1894-1887: The site and surrounding properties are located in an urban developed area of Lee's Summit. 1927: One dwelling followed by SE 2nd Street 1934-1957: One dwelling and a garage followed by SE 2nd Street 1964-1971: One commercial building followed by SE 2nd Street 1975-2021: Two commercial buildings followed by SE 2nd Street

*Site features and portions of the surrounding properties are not visible on maps.

The 1918 fire insurance map depicts a 50 or 550-gallon buried gasoline tank in Douglas St approximately 140 feet south of the site, in an apparent topographic up to cross-gradient position from the site. The capacity of the tank is not clearly readable on the fire insurance map. From 1927 to 1945, two gasoline tanks, capacity not noted, were depicted in Douglas St approximately 130 feet south of the site at a garage, in an apparent topographic up to cross-gradient position from the site. The 1945 fire insurance map depicts a filling station and three oil tanks, capacity not noted, on the southeast-adjoining property, in an apparent topographic up to cross-gradient position

from the site. Collectively, based on proximity to the site, apparent topographic gradient, and length of operations, the historical gasoline tanks, oil tanks, and filling station represent a REC to the site due to likely unknown releases which may have resulted in migration of contaminants onto the site.

3.2 Historical City Directories

The EDR Digital Archive, Cole Information, and Cole Criss-Cross Directory city directories used in this study were made available through EDR (selected years reviewed: 1954-2020) and were reviewed at approximate five-year intervals, if readily available. The current street address for the site was identified as 207 SE Douglas Street. Additional historical street addresses for the site were identified as 203 SE Douglas St and 205 SE Douglas St.

Historical City Directories

Direction	Description
Site	203-207 SE Douglas St 1962: Residential 1967: McQueens Country Kitchen; Residence 1972: McQueens Country Kitchen 1977-2020: Lee's Summit Fire Dept
Northeast	200 SE Green St No City Directory information
Southeast	209 SE Douglas St 2005-2017: Data Processing Sciences 2020: Ask Cathy Marketing Group LLC 211 SE Douglas St 1962: Century Finance Co, Decker & Associates, Summit Oil Co 1967-1987: Summit Oil Co 220 SE Douglas St 1962-1967: Willey Chevrolet 1972: Rogers Auto Service 1977: Marine World 1987: G&L Auto Parts/Repair 1992-1995: Antiques, Games & Hobbies 2000: Games & Hobbies 2005: American Heritage Antique Mall, Heart Of America Dance Center 2010-2020: Gary's Ballroom & Western Dance, Heart Of America Dance Ctr
Southwest	200 SE Douglas St 1992-2020: Office Building

Direction	Description
	206 SE Douglas St 1992: Eu Daly & Eu Daly Optometrists 1995: Eu Daly & Eu Daly Optometrists, International Mortgage Corp, Silver Dollar Mortgage 2000: Eu Daly, Lon S OD; Eye Care Incorporated Kansas City 2005: Gary W McEwen Md, Lee's Summit Dermatology Associates, Slater Insurance Agency 2010: Crantz Development LLC 2014: Turn the Page 210 SE Douglas St 1992: Clippers Station and Petro-Site Assmnt 1995: American Family Insurance and Clippers Station 2005: Biggs Pest Control Inc 2010: All About Hair & More Inc 2014: Bout Thyme Deli 2017: Good Life Yoga & Tea 212 SE Douglas St No City Directory information
Northwest	101 SE 2nd St 1992: Amer Red Cross 1995-2010: Binder Graphics Inc 2014: Binder Graphics Inc; Drayton Riley State Farm Insurance; Riley Drayton W State Farm Insurance 2017: Binder Graphics Inc and State Farm Insurance 2020: Drayton Riley-State Farm Ins 111 SE 2nd St 1992-1995: State Farm Ins 2000: Riley Drayton W Ins and State Farm Insurance 2010-2020: Grace Jewelry Loan Ltd 115 SE Main St No City Directory information 201 SE Douglas St 1987: Insurance Agency 2010: Kelley Bond

Summit Oil Co was identified on the southeast-adjoining property at 211 SE Douglas St in an apparent topographic up to cross-gradient position from the site from approximately 1962 to 1987. Based on proximity to the site, apparent topographic gradient, and length of operations, the historical filling station represents a REC to the site due to likely unknown releases which may have resulted in migration of contaminants onto the site.

3.3 Site Ownership

Based on a review of information obtained from the Jackson County, Missouri Parcel Viewer website, the current site owner is City of Lee's Summit.

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.

3.5 Environmental Liens and Activity and Use Limitations

Environmental lien and activity and use limitation (AUL) 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.

However, the EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report.

3.6 Interviews Regarding Current and Historical Site Uses

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

Interviews

Interviewer	Name / Phone #	Title	Date/Time
Madeleine Quick	Jim Eaton / 816-969-7360	Fire Captain	2/7/24 / 10am

Terracon interviewed Mr. Jim Eaton, Fire Captain, during the site reconnaissance. Mr. Eaton indicated that he has worked at the site for 36 years. Mr. Eaton noted that the building was built in approximately 1973 and has gone through minor renovations and renovations to the exterior in prior decades. The basement of the building contains the dispatch room and a large conference room, the first floor contains offices as well as the Bay, and the second floor contains the crew's quarters. Oil/water separators, and sediment traps are not present on the site, and all floor drains drain directly to the city sewer system. The site previously contained a diesel UST and a gasoline UST with a connected gas pump, as well as an AST for the previous emergency generator. The USTs

were closed in place in 2020 and associated piping was removed. The current two emergency generators are natural gas-powered—one is used for the fire station and the other is for the east-adjacent Lee's Summit City Hall building. Mr. Eaton noted there have been no spills in regards to the USTs or previous AST except for some minor surface spills near the UST's pump which had been properly cleaned up in accordance with the fire station's safety plans and spill prevention plans. Mr. Eaton noted no hazardous waste streams were generated by the fire station, and no hazardous waste is handled on-site. He noted the site does not contain a decontamination area. Minor truck maintenance used to be performed on-site from the 1970's until the mid-1990's, however no truck maintenance has been performed on-site since. He noted he is not aware of any spills or releases of hazardous substances at the time the site performed vehicle maintenance. According to Mr. Eaton, the site has had no violations of environmental laws, environmental liens, or activity and use limitations recorded against the site.

3.7 Prior Report Review

The following previous reports concerning the site were reviewed:

Underground Storage Tank (UST) Closure Report, Fire Station #1, 207 SE Douglas Street, Lee's Summit, Missouri, dated May 19, 2020, prepared by SCS Engineers (SCS), prepared for Mr. Mark Stinson, City of Lee's Summit Fleet Manager.

According to the SCS May 19, 2020 UST Closure Report, two 4,000-gallon fiberglass USTs and associated piping were installed in 1974 near the southeast corner of Fire Station #1, west of the northwest corner of the Lee's Summit City Hall in downtown Lee's Summit. The report states the 4,000-gallon diesel UST (Tank #1) and 4,000-gallon gasoline UST (Tank #2) were cleaned, inspected, and filled with concrete. The dispenser, product lines, and associated UST equipment were removed and properly recycled or disposed off site in general accordance with the Missouri Risk Based Corrective Action (MRBCA) Process for Petroleum Storage Tanks, UST Closure Guidance. Soil and water samples were taken during the in-place closure of the USTs and associated equipment removal.

According to the SCS report, "The water sample collected from the temporary well installed in boring T-3 contained a total lead concentration of 15.6 micrograms per liter (ug/L), slightly above the Default Target Level (DTL) of 15 ug/L. However, dissolved lead was not detected above laboratory reporting limits. The total lead concentration is below applicable Tier 1 Risk-Based Target Levels (RBTLs). Diesel range organics (DRO) and oil range organics (ORO) concentrations were detected in the water sample, at concentrations below DTLs. No other chemicals of concern (COCs) were detected above laboratory reporting limits in the water sample."

According to the SCS report, "Based on closure soil sample analytical results, DTLs were exceeded in 11 of the 13 soil samples for lead, and four of the 13 soil samples for other

COCs. None of the concentrations exceeded non-residential Tier 1 RBTLs. Lead soil concentrations are below the anticipated background concentration for lead cited by a USACE study specific to the area. Maximum detected soil concentrations did not exceed minimum concentrations requiring a groundwater evaluation."

The report concluded that based on the observations during the closure activities and analytical results, additional site characterization activities are not warranted. SCS requested MDNR issue a No Further Action (NFA) determination for the UST closure. The No Further Action letter was issued by the MDNR in July 2020 and is included in Appendix C. According to the 2020 MDNR NFA letter, "The closure report indicates SCS Engineers adequately evaluated these risks and the closure requirements for the tank listed above, using MRBCA non-residential target levels."

Limited Environmental Site Assessment, KCYC Lee's Summit DT (02237067), 207 SE Douglas Street, Lee's Summit, Missouri, dated March 22, 2023, prepared by Terracon Consultants, Inc., prepared for Cellco Partnership d/b/a Verizon Wireless.

According to the March 22, 2023 Terracon Phase I ESA report for the existing on-site telecommunications tower and compound, the site consisted of an approximate 1,200 square foot fenced area of land to the northeast of the Fire Station #1 building which was covered by concrete pads and gravel, containing an approximate 180-foot monopole tower, back up-generators and equipment cabinets. RECs were not identified in regard to this site, and Terracon did not recommend any additional environmental investigations.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company in a report dated January 30, 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

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

Federal Databases

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

State/Tribal Databases

Database	Description	Distance (miles)	Listings
AUL	Activity and Use Limitations	Site	0
Brownfields	Listing of Brownfields Sites	0.5	1
LUST	Leaking Underground Storage Tanks	0.5	6
SHWS	State Hazardous Waste Site	0.5	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0

Database	Description	Distance (miles)	Listings
UST	Underground Storage Tanks	Site and adjoining properties	1
VCP	Voluntary Cleanup Program Sites	0.5	0

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

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities within approximately 1,000 feet of the site. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Findings Summary
City Of Lee's Summit Fire Dept 207 SE Douglas	Site	RGA LUST, UST FINDER, UST FINDER RELEASE, ERNS, SPILLS, LUST, UST, FINDS	Not a REC, Discussed below
Essex Waste Management Services Inc 226 SE Douglas St	Approximately 220 feet S / up-gradient	RCRA NonGen / NLR, ECHO, FINDS	Not a REC, Discussed below
FPC Co 100 SE 3rd St	Approximately 245 feet SSE / up-gradient	RCRA NonGen / NLR	Not a REC, Discussed below
Lee's Summit City of Central Vehicle Dept/Central Vehicle Maintenance 126 SE 3rd St	Approximately 290 feet SE / up to cross-gradient	UST FINDER, UST FINDER RELEASE, MANIFEST, RCRA NonGen / NLR, ECHO, FINDS, LUST, UST	Not a REC, Discussed below
Green Street Villas 201-203 SE Green Street; 205-209 SE Green St	Approximately 335 feet NE / down-gradient	US BROWNFIELDS	Not a REC, based on distance and gradient
Herrington Automotive 201 SE Green St	Approximately 335 feet NE / down-gradient	EDR Hist Auto	Not a REC, based on distance and gradient

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Findings Summary
Essex Waste Management Svcs 300 SE Douglas	Approximately 375 feet S / up-gradient	RCRA NonGen / NLR, ECHO, FINDS	Not a REC, based on distance
Pickens Printing Co Inc 21 SE 3Rd St	Approximately 390 feet S / up-gradient	RCRA NonGen / NLR, ECHO, FINDS	Not a REC, based on distance
Southwestern Bell 202 SE 3Rd St	Approximately 515 feet E / cross-gradient	RCRA NonGen / NLR	Not a REC, based on distance
Lee's Summit Cleaners Inc 316 SE Douglas	Approximately 570 feet S / up-gradient	DRYCLEANERS, EDR Hist Cleaner, RCRA-VSQG	Not a REC, based on distance
Coopers Auto Service 323 SE Douglas St	Approximately 640 feet SSE / up-gradient	EDR Hist Auto	Not a REC, based on distance
Lee's Summit Cleaners 311 SE Third St #B	Approximately 850 feet E / cross-gradient	DRYCLEANERS	Not a REC, based on distance
Pickens Printing Co Inc	Approximately 905 feet SW / up-gradient	PFAS ECHO	Not a REC, based on distance
Conoco Convenience Plus 351 SE 3Rd Street	Approximately 930 feet E / cross-gradient	UST FINDER, UST FINDER RELEASE	Not a REC, based on distance
Quiktrip Store #162 351 E 3Rd St	Approximately 930 feet E / cross-gradient	RCRA NonGen / NLR, ECHO, FINDS, LUST, UST	Not a REC, based on distance
Service Station 101 W 3Rd St	Approximately 985 feet SW / up-gradient	RCRA NonGen / NLR, ECHO, FINDS	Not a REC, based on distance

City Of Lee's Summit Fire Dept (Site)

The City of Lee's Summit Fire Department is listed on the RGA LUST, UST FINDER, UST FINDER RELEASE, ERNS, SPILLS, LUST, UST, and FINDS databases.

City of Lee's Summit Fire Department and Lee's Summit Fire Department located at 207 Southeast Douglas Street was identified on the Leaking Underground Storage Tank (LUST), Facility Index System (FINDS), Recovered Government Archive (RGA) LUST, Emergency Response Notification System (ERNS), SPILLS, and Underground Storage Tank (UST) databases. The FINDS and one SPILLs database listings are in reference to the 1997 LUST incident. The remaining SPILLS incident references a private citizen dropping off small vials of mercury at the Fire Station. The Fire Chief was able to safety

store it until The Department's State On-Scene Coordinator (SOSC) picked up the vials by April 2020. No release was detected.

LUST: In 1997 a diesel tank and piping failed a tightness test and during the piping replacement contaminated soil was discovered. Groundwater monitoring and vacuum testing of the tanks and piping were conducted. A temporary well indicated one hot spot was detected, however based on the information provided to the MDNR in a Site Check and Preliminary Site Investigation Report dated February 22, 2000, by Burns & McDonnell, no additional investigation or remedial action was currently required and an NFA letter dated June 13, 2000 was issued. Based on the NFA status, and review of the site UST closure report in Section 3.7 of this report, this LUST listing does not represent a REC at this time.

In January 2020 another release was reported. This release was due to the closure of the two onsite USTs. During the removal, contamination above the DTLs was encountered. A Missouri Risk-Based Corrective Action Closure Report dated May 20, 2020, prepared by SCS Engineers, was reviewed in Section 3.7. Based on the closure report and site information, the MDNR issued a No Further Action letter on June 10, 2020. Based on the NFA status, this LUST listing does not represent a REC at this time.

USTs: Two 4,000-gallon USTs, one gasoline and one diesel fuel are associated with the site. The tanks were installed in 1974 and were permanently closed in place in March 2020. Based on the site closure and NFA status, these USTs do not represent a REC at this time as reviewed in Section 3.7 of this report.

ERNS: In 1994 an unknown sheen located within a creek was detected in an approximately 5ft by 5ft radius. The sheen appeared to be from an above ground pipeline. According to AT&T it is believed to be a sheen of a previous spill. The fire department placed booms in the creek to remediate the water. Based on the nearest creek, approximately 1,300 feet northeast, this description does not appear to be the site and is not a REC to the site.

Essex Waste Management Services Inc (226 SE Douglas St)

Essex Waste Management Services Inc is listed on the RCRA NonGen/NLR, ECHO, and FINDS databases. These listings are due to this facility being a hazardous waste treatment, transfer, and recycling facility. According to this facility's description on the website, EnviroSource, "many waste types accepted at the facility are transferred to other facilities for treatment and final disposal. Waste treatment processes offered on-site include fuel blending, neutralization and solidification." This facility has received no violations and is therefore not a REC to the site.

FPC Co (100 SE 3rd St)

FPC Co is listed on the RCRA NonGen/NLR database as this facility is permitted to handle ignitable waste and benzene. This facility has received no violations and is therefore not a REC to the site.

Lee's Summit City of Central Vehicle Dept/Central Vehicle Maintenance (126 SE 3rd St)

Lee's Summit City of Central Vehicle Dept/Maintenance is listed on the UST FINDER, UST FINDER RELEASE, MANIFEST, RCRA NonGen / NLR, ECHO, FINDS, LUST, and UST databases.

The MANIFEST, RCRA NonGen / NLR, ECHO, and FINDS listings are due to the facility being a small quality generator for the following waste codes: D001 (Ignitable Waste), D002 (Corrosive Waste), F002 (Spent Halogenated Solvents), and F004 (Spent Nonhalogenated Solvents). This facility has received no violations and therefore these listings are not a REC to the site.

The remaining listings are due to the LUST reported on 6-11-1992. Clean-up for this facility began on the date of the report and was completed on 11-19-1992, and a No Further Action Letter was received from MDNR on 11-23-1992. Due to this facility's No Further Action Letter following clean-up, this does not represent a REC to the site.

The remaining regulatory 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 Lee's Summit, MO Codes Administration and Fire Department Trisha.FowlerArcuri@cityofls.net	At the issuance of this report, a response had not been received from Codes Administration or Fire Department. However, an interview with the onsite Fire Captain was conducted during the site visit and is further discussed in Section 3.6 of this report.
National Pipeline Mapping System (NPMS) / Online map*	According to the NPMS, there are no gas transmission pipelines, hazardous liquid pipelines, hazardous liquid accidents or gas incidents near the site.
MDNR Missouri Geological Survey GeoSTRAT Online Map**	According to GeoSTRAT, there are no monitoring wells, oil and gas wells, or other wells at the site.

Agency Contacted/ Contact Method	Response
MDNR Environmental Site Tracking and Research Tool (E-START) / Online map***	According to E-START, there are no hazardous substance investigation and cleanup sites or on or near the subject site. The site does have two No Further Action Letters due to the UST closures conducted in 2020 as well as the Site Check and Preliminary Investigation report submitted in 2000. Both No Further Action Letters are included in Appendix C.

*https://pvnpms.phmsa.dot.gov/PublicViewer/
**https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=3ac3a61da4af4834811503a24a3cb935
***https://apps5.mo.gov/ESTARTMAP/map/init_map.action

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	Madeleine Quick and Tracie Ragland			
Reconnaissance Date	February 7, 2024			
Weather Conditions	50°F, clear skies			
Site Contact/Title	Jim Eaton / Site Fire Captain			
Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (ft²)
Main Building	65% Office, 35% Bay	1974	3	27,875
Site Utilities				
Drinking Water	City of Lee's Summit			
Wastewater	City of Lee's Summit			
Electric	Evergy			
Natural Gas	Spire			

5.2 Overview of Current Site Occupants

The site is located at 207 SE Douglas St in Lee's Summit, Jackson County, Missouri and currently contains Lee's Summit Fire Station #1 which was built in the 1970's. The building contains approximately 14,275 square feet of space on the ground floor (offices and equipment bay), an approximate 6,800-square foot second floor (living quarters), and an approximate 6,800-square foot basement (meeting rooms and dispatch). The first floor offices, second floor, and basement are located in the northwest portion of the building while the four-bay equipment area is located on the southeast portion of the building. The remainder of the site consists of a cell tower and associated compound, parking areas, and minimal landscaping.

5.3 Overview of Current Site Operations

The site is currently operating as Lee's Summit Fire Station #1.

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	X
	Elevators	
	Air compressors	X
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	X
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	

Category	Item or Feature	Observed or Identified
	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	X
	Grease traps	
	Septic tanks and/or leach fields	
	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	
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	
	Quarries or pits	
	Wastewater lagoons	

Category	Item or Feature	Observed or Identified
	Wells	

Site Operations, Processes, and Equipment

Emergency generators

Two natural gas-powered emergency generators were observed at the site. No staining or evidence of leaks was observed in their vicinity.

Air compressors

One air compressor was observed at the site. Additionally, a RevolveAir fill station with multiple ~425 to ~680-liter canisters filled with breathing air were observed. No staining or evidence of leaks was observed in their vicinity.

Heating and/or cooling systems

The building is heated through natural gas heaters and uses electric A/C. No staining or evidence of leaks was observed with the natural gas heating components.

Aboveground Chemical or Waste Storage

Drums, barrels, and/or containers ≥ 5 gallons

Multiple 5-gallon containers of alcohol-resistant aqueous film-forming foam (AR-AFFF) and four ~3-5 gallon gas/diesel cans were observed at the site. No staining or evidence of leaks, or floor drains, was observed in their vicinity.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Sumps, cisterns, French drains, catch basins, and/or dry wells

A sump was observed in the basement of the on-site building. No staining or evidence of leaks was observed in its vicinity. Fire Captain Eaton believed the sump discharged to the sanitary sewer system.

Interior floor drains

Interior floor drains were observed in bathrooms as well as some closets, several janitor's basins were observed in janitor's closets, and two trench drains were observed in the Bay. All floor drains discharge to the city sewer system. No staining was observed in the vicinity of the floor drains, and hazardous substances or petroleum products were not stored in the vicinity of the drains.

Electrical Transformers/ PCBs

Transformers and/or capacitors

Four pole-mounted transformers and one pad-mounted transformer were observed at the site. One pole-mounted transformer displayed a non-PCB sticker; however, the remaining transformers were unmarked. Some transformers contain mineral oil which may contain PCBs.

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

6.0 ADJOINING PROPERTY RECONNAISSANCE

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

Adjoining Properties

Direction	Description
Northeast	A parking garage and Lee's Summit City Hall
Southeast	A vacant commercial building
Southwest	Edward Jones and a personal training studio
Northwest	State Farm and Realty One Group

RECs were not observed with the current day adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, an asbestos survey and a lead-based paint inspection were conducted at the site concurrently with the Phase I ESA. The results of these additional services are discussed under separate cover.

8.0 DECLARATION

I, Tracie A. Ragland, 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.

Tracie A. Ragland
Senior Scientist

APPENDIX A

EXHIBIT 1: TOPOGRAPHIC MAP

EXHIBIT 2: SITE DIAGRAM

TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: LEES SUMMIT, MO (1/1/1996) and LAKE JACOMO, MO (1/1/1996).

Project Manager: MAD	Project No. 02237353	Terracon	TOPOGRAPHIC MAP	Exhibit
Drawn by: MMQ	Scale: 1"=2,000'	15620 W 113th St Lenexa, KS 66219-5102	Fire Station #1 207 SE Douglas St Lees Summit, MO	1
Checked by: TAR	File Name:			
Approved by: TAR	Date: 2/6/2024			

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

AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

Project Manager: MAD Drawn by: MMQ Checked by: TAR Approved by: TAR	Project No. 02237353 Scale: AS SHOWN File Name: Date: 2/6/2024	Terracon 15620 W 113th St Lenexa, KS 66219-5102	SITE DIAGRAM Fire Station #1 207 SE Douglas St Lees Summit, MO	Exhibit 2

APPENDIX B

SITE PHOTOGRAPHS

Photo #1 Facing E: Overview of site from W corner

Photo #2 Facing S: Overview of site from N corner

Photo #3 Facing W: Overview of site from E corner

Photo #4 Facing N: Overview of site from S corner

Photo #5 Facing SSE: Overview of Bay

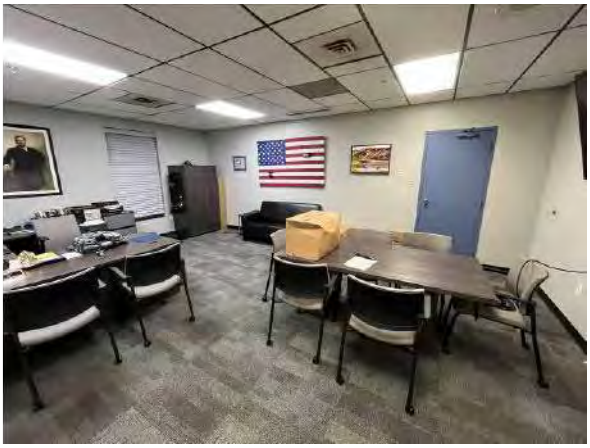

Photo #6 Typical on-site office

Photo #7 Typical on-site kitchen

Photo #8 View of conference room

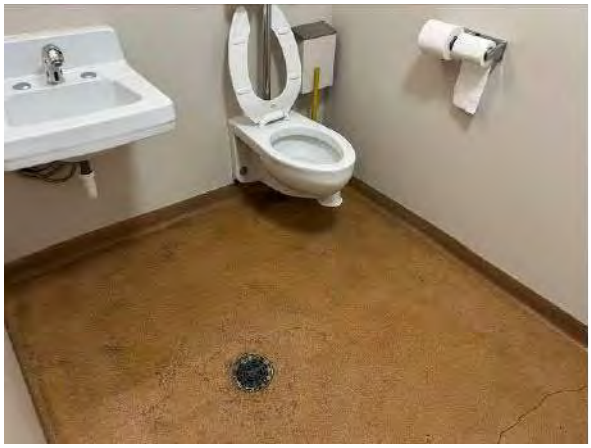

Photo #9 Typical on-site bathroom with floor drain

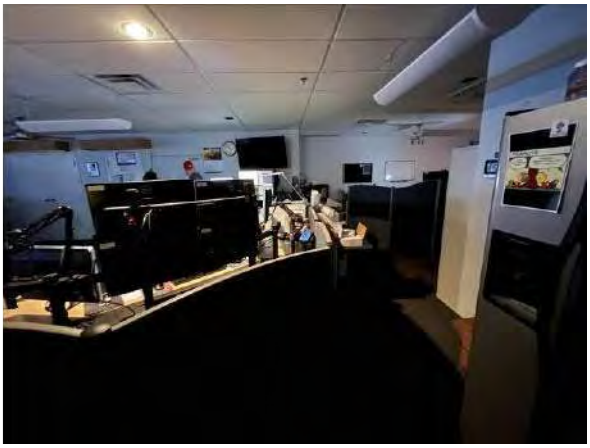

Photo #10 View of dispatch room

Photo #11 Facing SE: View of location of closed former USTs

Photo #12 View of natural gas emergency generator

Photo #13 View of natural gas emergency generator

Photo #14 View of on-site pole-mounted transformers

Photo #15 View of on-site pad-mounted transformer

Photo #16 View of air compressor and four ~3-5 gallon gas/diesel cans

Photo #17 View of oxygen tank storage in Bay

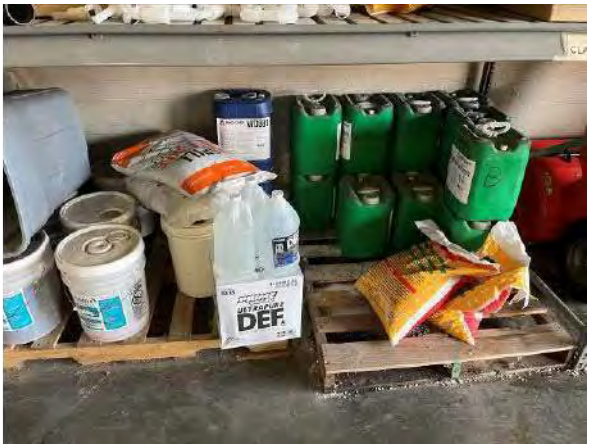

Photo #18 View of 5-gallon containers of alcohol-resistant aqueous film-forming foam (AR-AFFF)

Photo #19 View of WSW-adjacent Edward Jones

Photo #20 View of SW-adjacent personal training studio

Photo #21 View of NW-adjacent State Farm

Photo #22 View of NE-adjacent parking garage

Photo #23 View of E-adjacent City Hall

Photo #24 View of SE-adjacent vacant commercial building

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

Fire Station #1

207 SE Douglas

Lees Summit, MO 64063

Inquiry Number: 7554931.4

January 30, 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

01/30/24

Site Name:	Client Name:
Fire Station #1	Terracon
207 SE Douglas	15620 W. 113th Street
Lees Summit, MO 64063	Lenexa, KS 66219
EDR Inquiry # 7554931.4	Contact: Marci Brockett

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:		*Coordinates:*	
P.O.#	NA	**Latitude:**	38.913711 38° 54' 49" North
Project:	02237353	**Longitude:**	-94.376508 -94° 22' 35" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	380658.67
		UTM Y Meters:	4308101.66
		Elevation:	1021.29' above sea level

Maps Provided:

2021	1963, 1964
2017	1957
2015	1949
1996	1939
1995	1934
1975	1894
1971	1892
1970	1887

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Topo Sheet Key

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

2021 Source Sheets

Lees Summit
2021
7.5-minute, 24000

Lake Jacomo
2021
7.5-minute, 24000

2017 Source Sheets

Lees Summit
2017
7.5-minute, 24000

Lake Jacomo
2017
7.5-minute, 24000

2015 Source Sheets

Lees Summit
2015
7.5-minute, 24000

Lake Jacomo
2015
7.5-minute, 24000

1996 Source Sheets

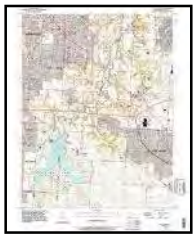
Lees Summit
1996
7.5-minute, 24000
Aerial Photo Revised 1996

Lake Jacomo
1996
7.5-minute, 24000
Aerial Photo Revised 1996

Topo Sheet Key

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

1995 Source Sheets



Lees Summit
1995
7.5-minute, 24000
Aerial Photo Revised 1990

Lake Jacomo
1995
7.5-minute, 24000
Aerial Photo Revised 1990

1975 Source Sheets

Lake Jacomo
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Lees Summit
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1971 Source Sheets

Lees Summit
1971
7.5-minute, 24000
Aerial Photo Revised 1970

1970 Source Sheets

Lake Jacomo
1970
7.5-minute, 24000
Aerial Photo Revised 1970

Lees Summit
1970
7.5-minute, 24000
Aerial Photo Revised 1970

Topo Sheet Key

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

1963, 1964 Source Sheets

Lake Jacomo
1963
7.5-minute, 24000
Aerial Photo Revised 1955

Lees Summit
1964
7.5-minute, 24000
Aerial Photo Revised 1962

1957 Source Sheets

Woods Chapel
1957
7.5-minute, 24000
Aerial Photo Revised 1955

Lees Summit
1957
7.5-minute, 24000
Aerial Photo Revised 1955

1949 Source Sheets

Lees Summit
1949
7.5-minute, 24000

1939 Source Sheets

Lees Summit
1939
7.5-minute, 31680

Topo Sheet Key

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

1934 Source Sheets

Lees Summit
1934
7.5-minute, 24000

Woods Chapel
1934
7.5-minute, 24000

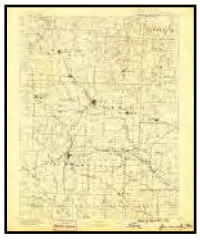
1894 Source Sheets

Harrisonville
1894
30-minute, 125000

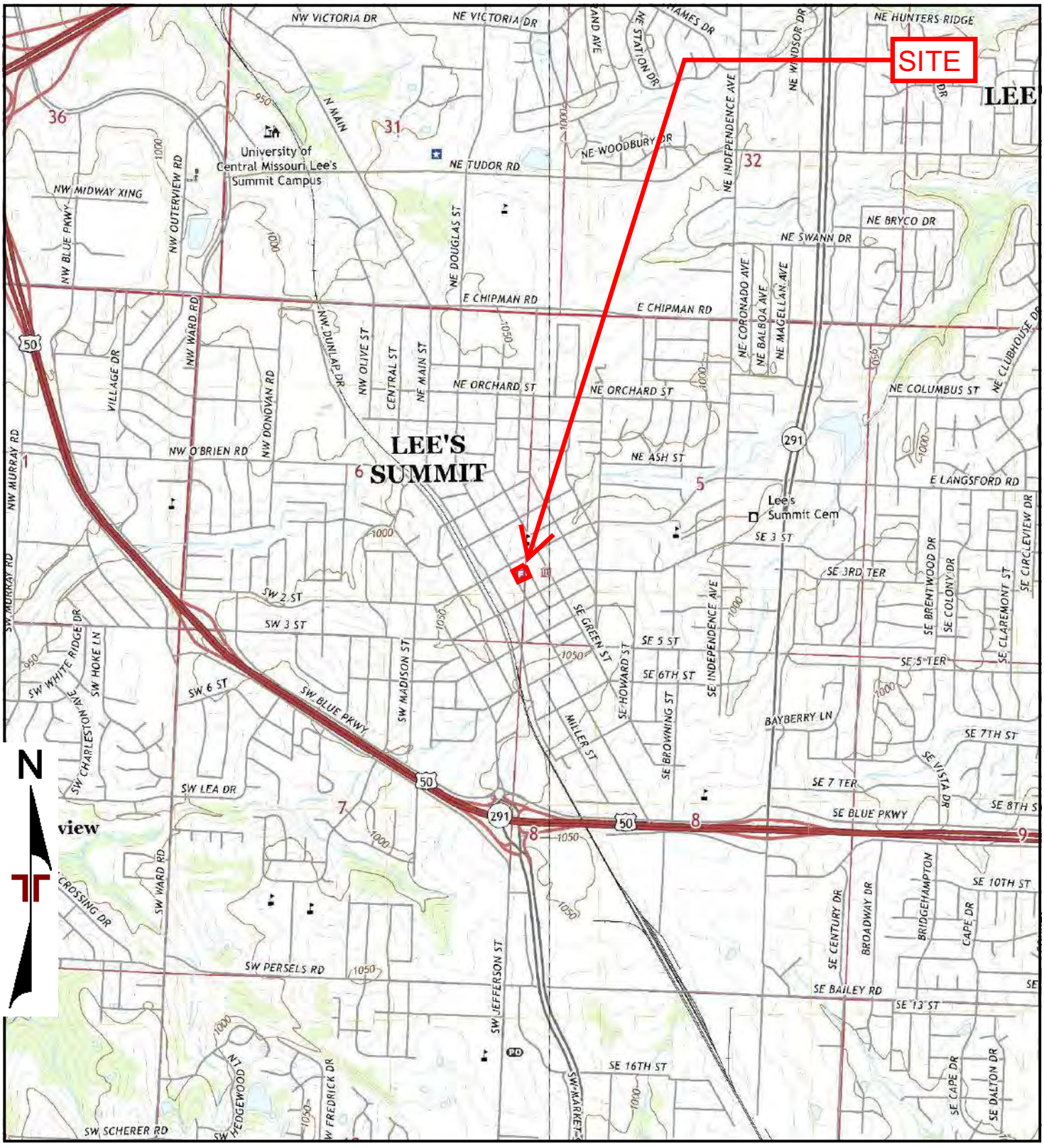
1892 Source Sheets

Harrisonville
1892
30-minute, 125000

1887 Source Sheets



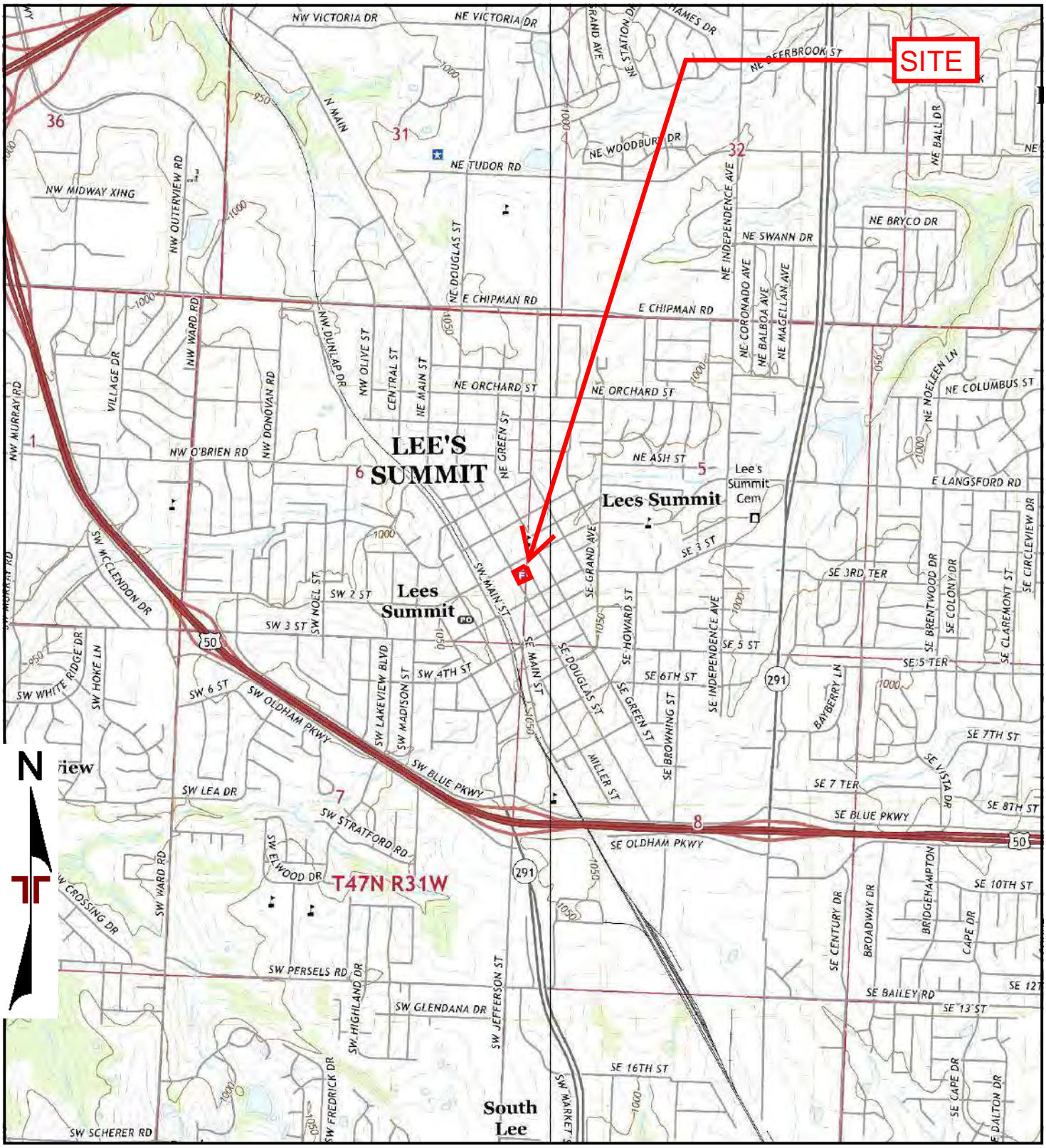
Harrisonville
1887
30-minute, 125000



TP, Lees Summit, 2021, 7.5-minute
NE, Lake Jacomo, 2021, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2021 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 2021			

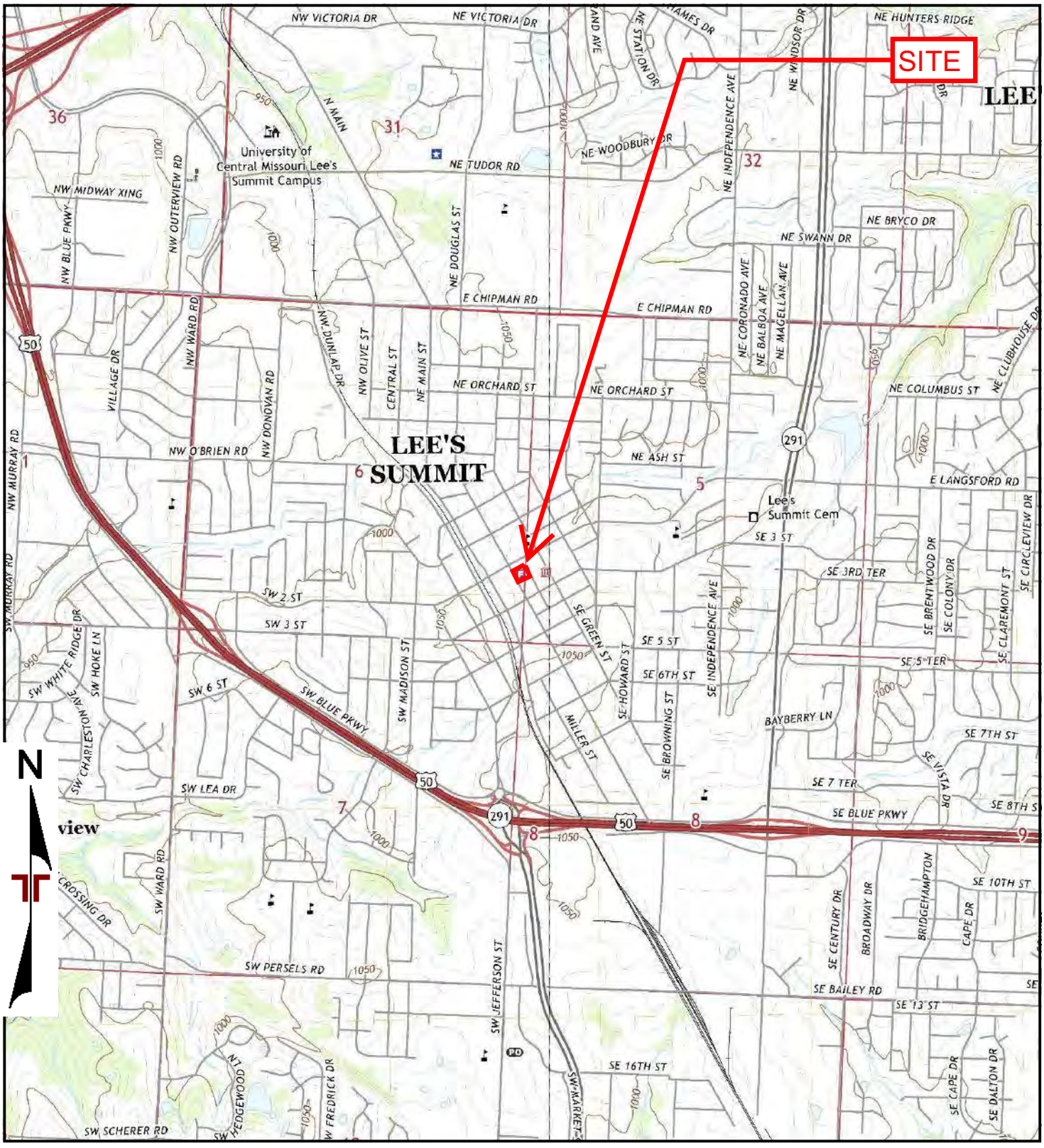


TP, Lees Summit, 2017, 7.5-minute
NE, Lake Jacomo, 2017, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2017 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn by:	Scale: As Shown		
Checked by:	File Name:		
Approved by:	Date: 2017		

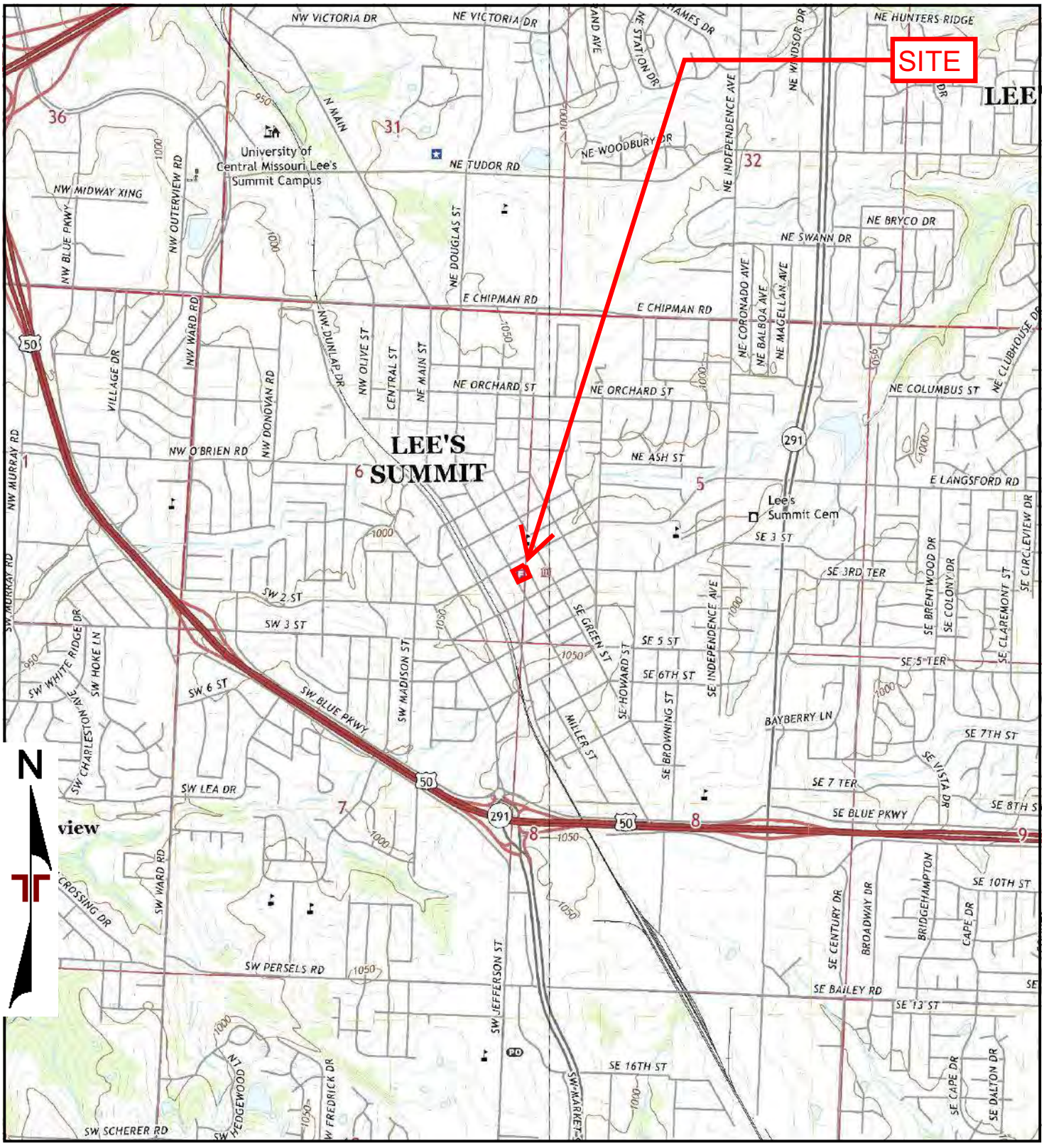
Appendix C



TP, Lees Summit, 2021, 7.5-minute
NE, Lake Jacomo, 2021, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2021 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 2021			



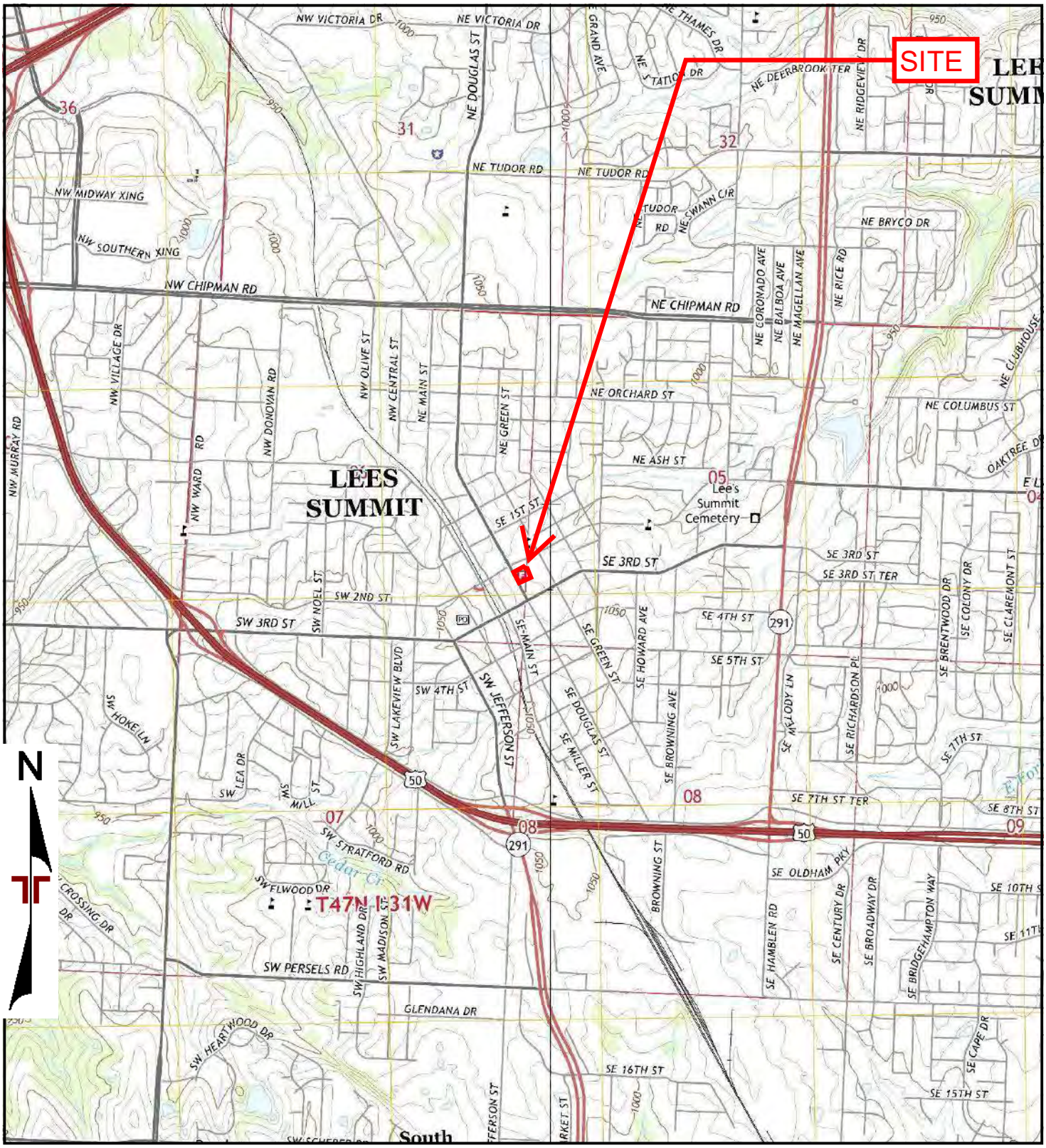
TP, Lees Summit, 2021, 7.5-minute
NE, Lake Jacomo, 2021, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2021 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 2021			

Topographic Map

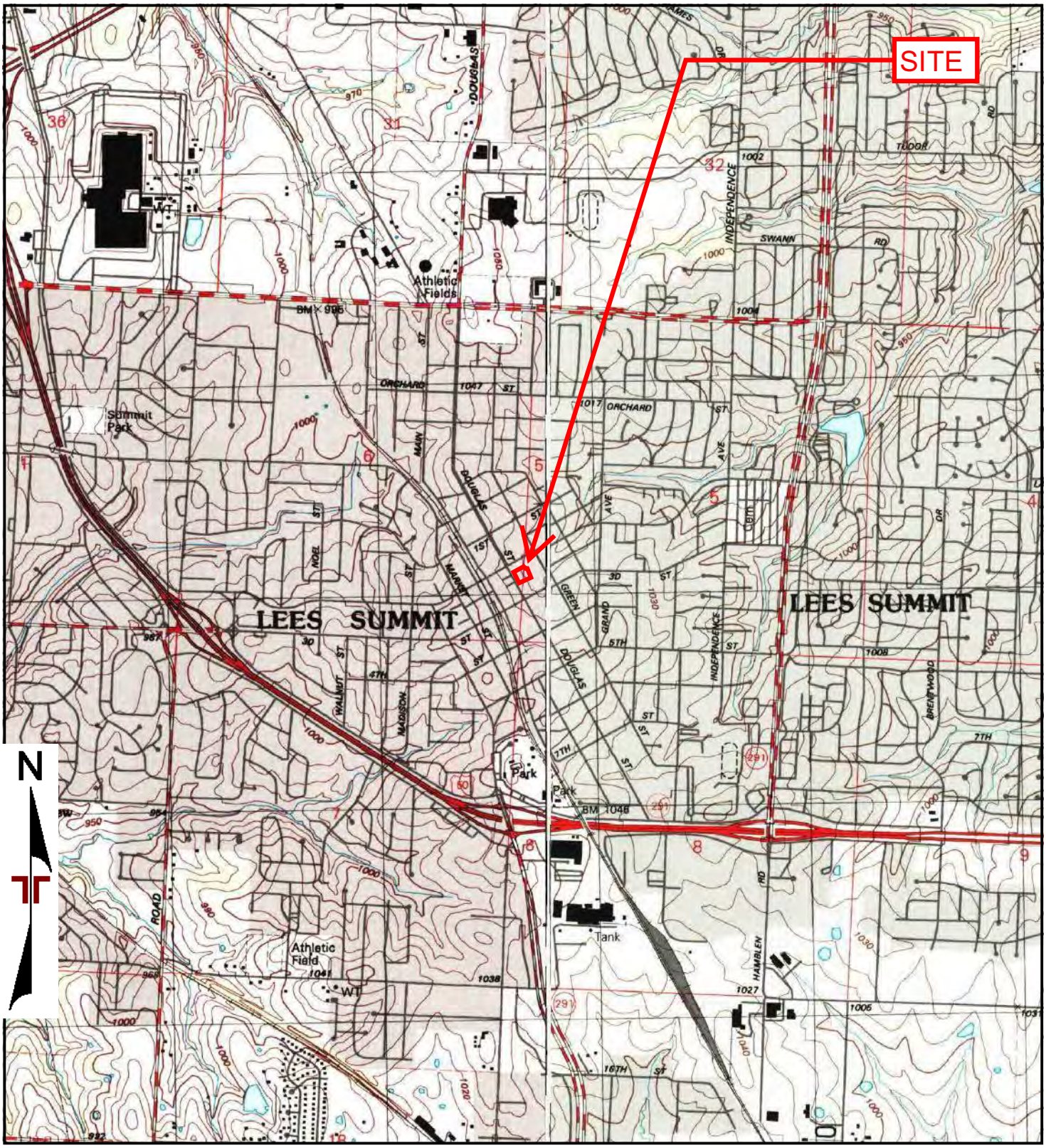
2015



TP, Lees Summit, 2015, 7.5-minute
NE, Lake Jacomo, 2015, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2015 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn by:	Scale: As Shown		Appendix C
Checked by:	File Name:		
Approved by:	Date: 2015		



TP, Lees Summit, 1996, 7.5-minute
NE, Lake Jacomo, 1996, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	
Drawn by:	
Checked by:	
Approved by:	

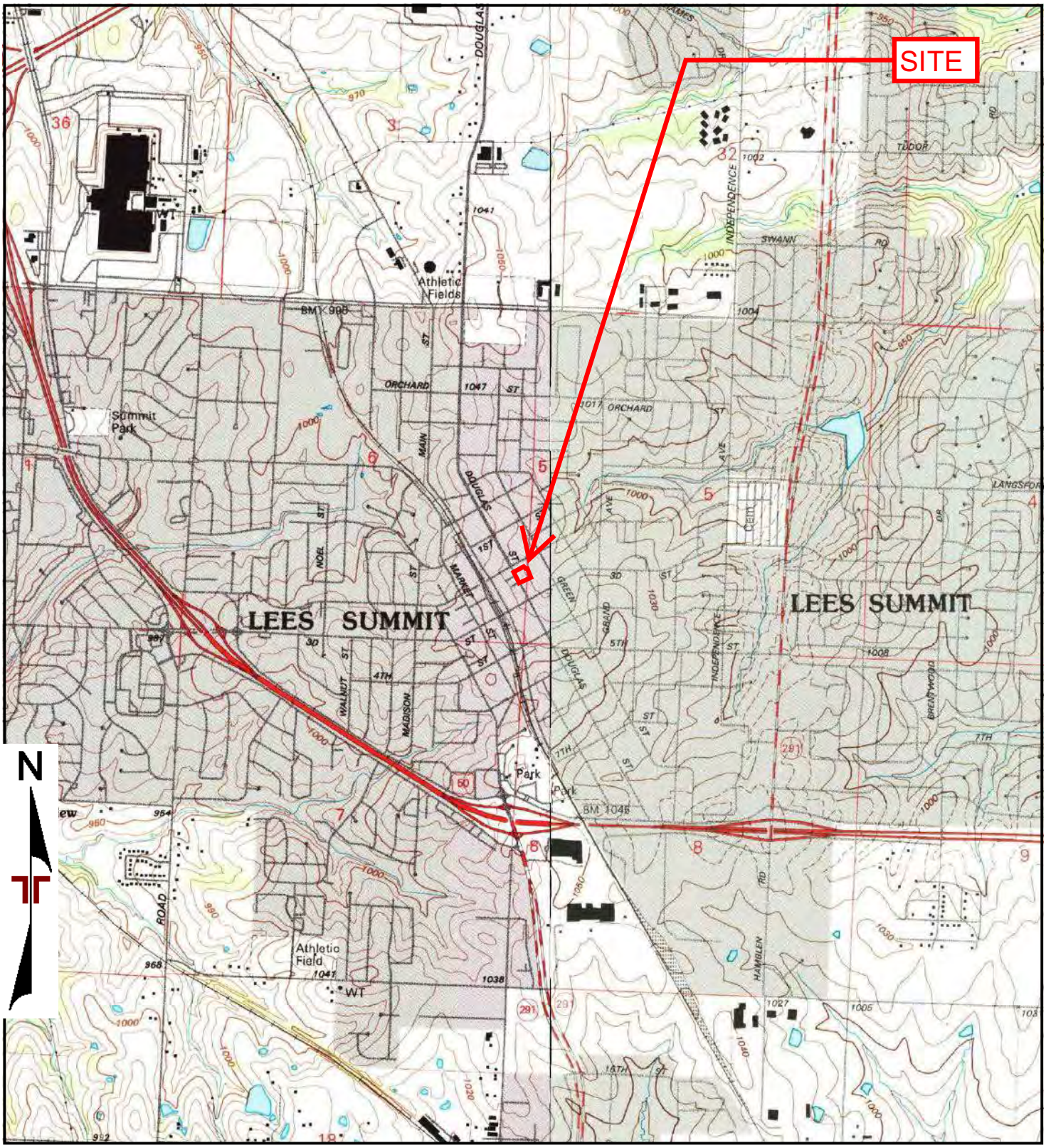
Project No.	02237353
Scale:	As Shown
File Name:	
Date:	1996

Terracon
15620 W. 113th Street
Lenexa, KS 66219

1996 TOPOGRAPHIC MAP

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Appendix C



TP, Lees Summit, 1995, 7.5-minute
NE, Lake Jacomo, 1995, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	
Drawn by:	
Checked by:	
Approved by:	

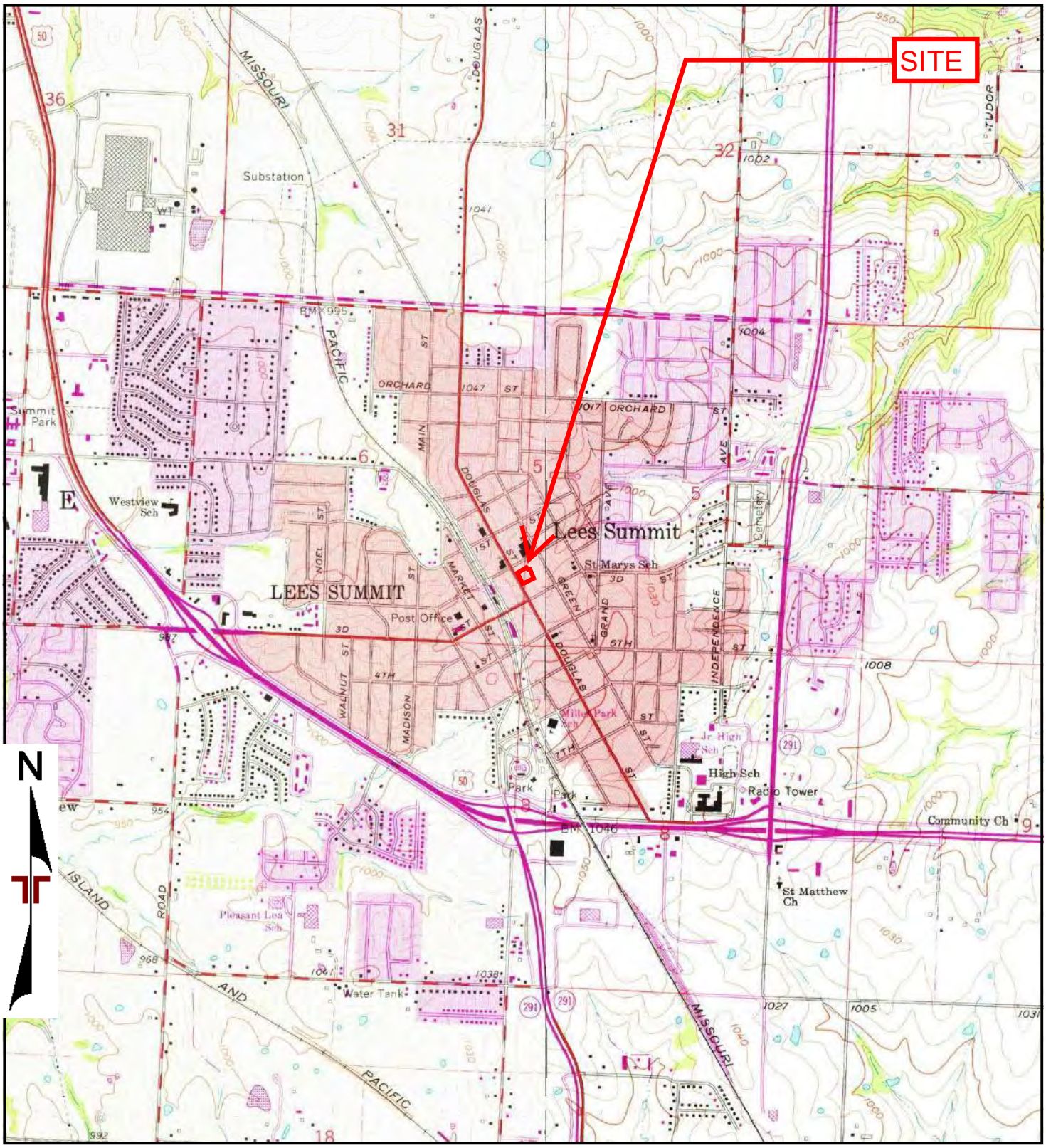
Project No.	02237353
Scale:	As Shown
File Name:	
Date:	1995

Terracon
15620 W. 113th Street
Lenexa, KS 66219

1995 TOPOGRAPHIC MAP

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Appendix C



TP, Lees Summit, 1975, 7.5-minute
NE, Lake Jacomo, 1975, 7.5-minute

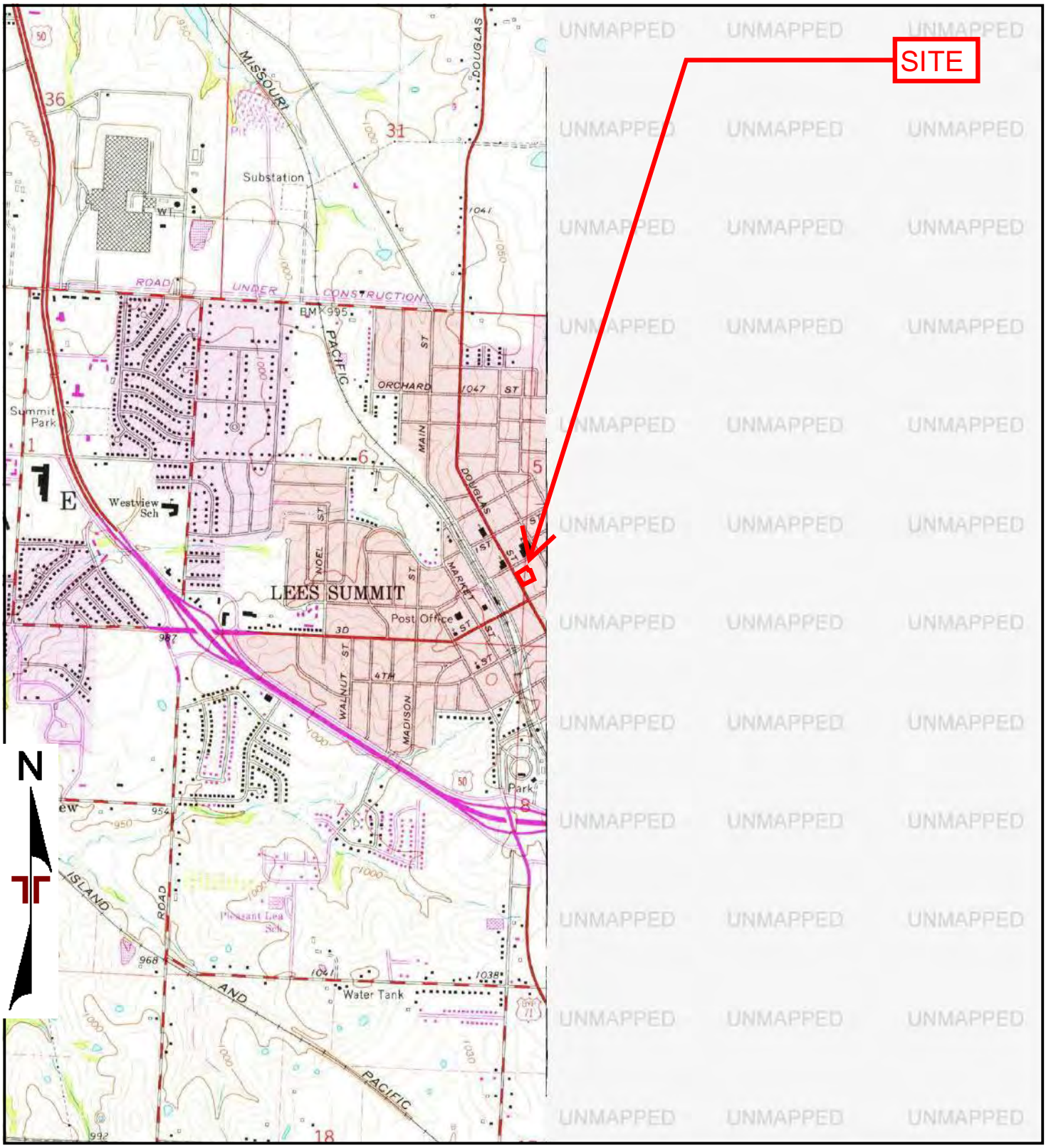
0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1975 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn by:	Scale: As Shown		
Checked by:	File Name:		
Approved by:	Date: 1975		

Appendix C

Topographic Map

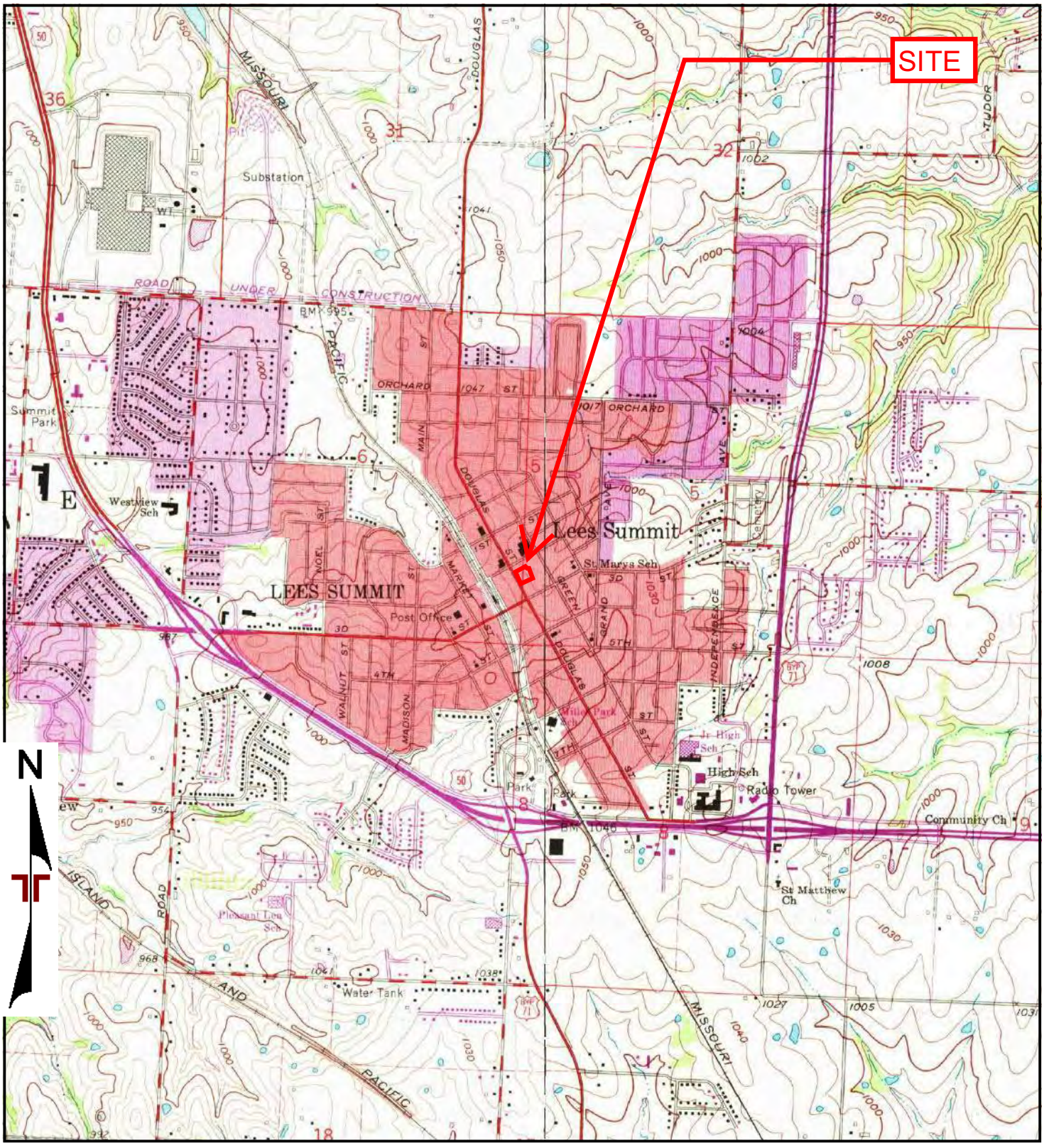
1971



TP, Lees Summit, 1971, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1971 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn by:	Scale: As Shown		
Checked by:	File Name:		
Approved by:	Date: 1971		Appendix C



TP, Lees Summit, 1970, 7.5-minute
NE, Lake Jacomo, 1970, 7.5-minute

0 Miles 0.25 0.5 1 1.5

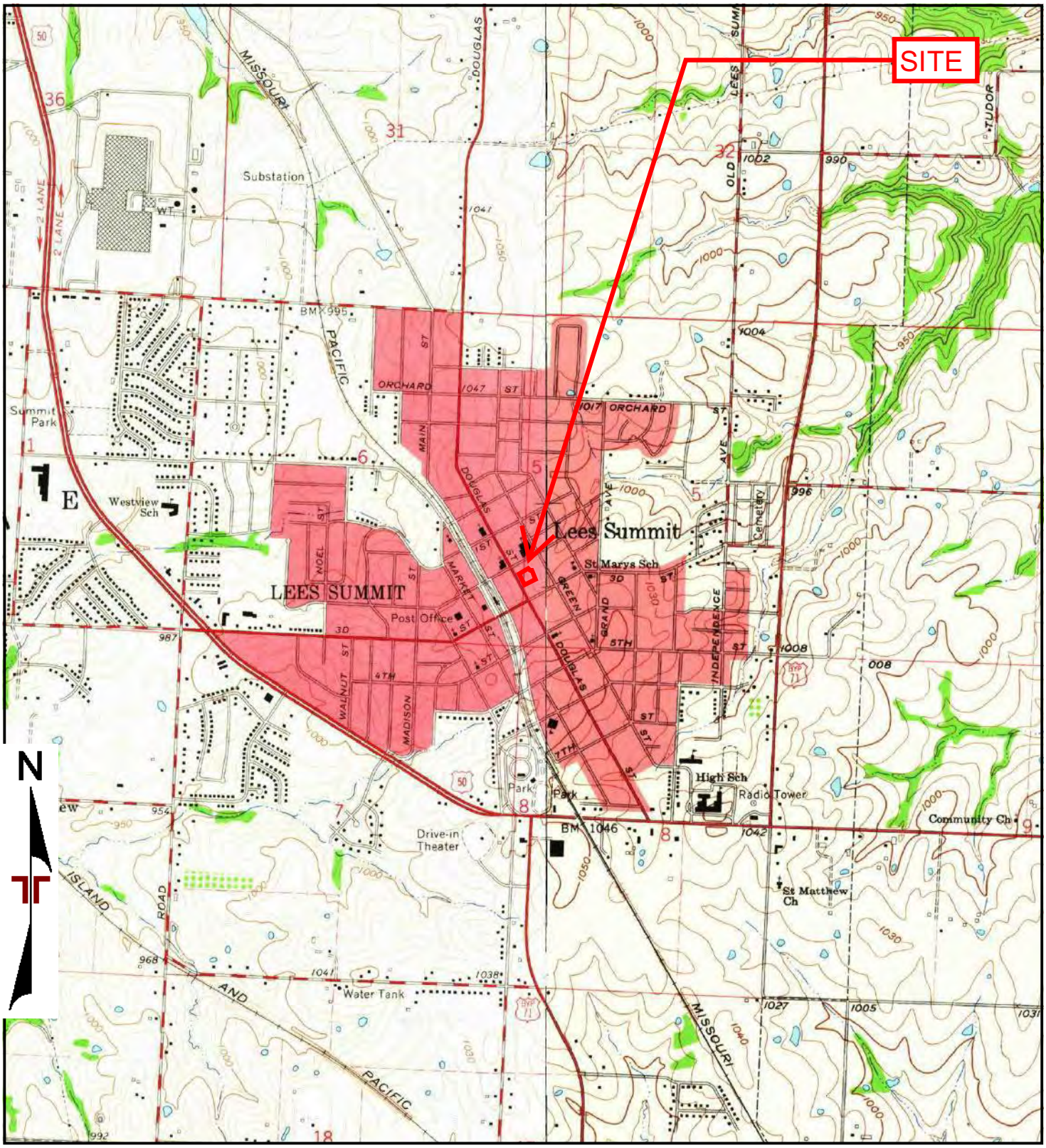
Project Manager:	
Drawn by:	
Checked by:	
Approved by:	
Project No.	02237353
Scale:	As Shown
File Name:	
Date:	1970

Terracon
15620 W. 113th Street
Lenexa, KS 66219

1970 TOPOGRAPHIC MAP

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Appendix
C

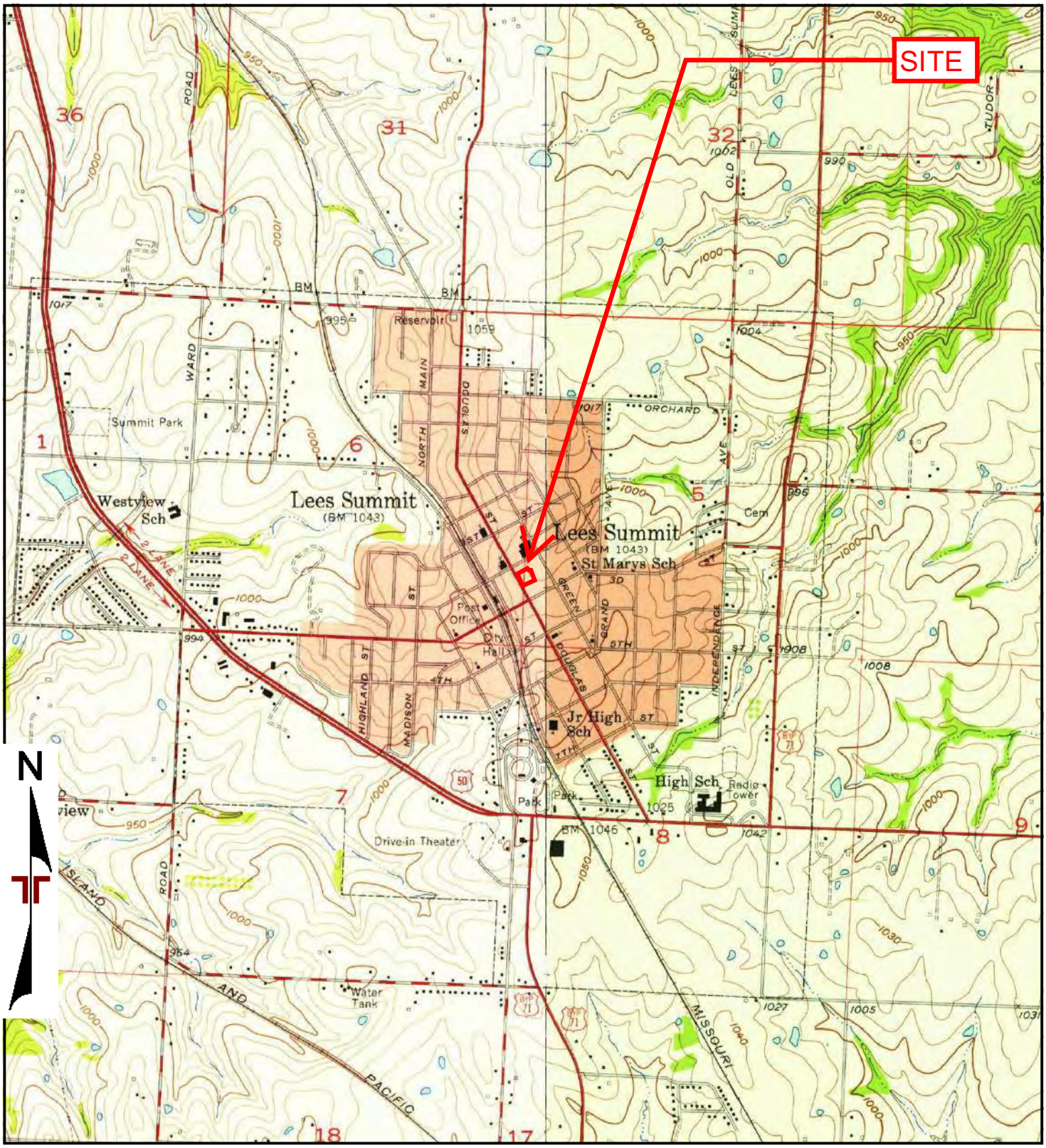


TP, Lees Summit, 1964, 7.5-minute
NE, Lake Jacomo, 1963, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1963, 1964 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn by:	Scale: As Shown		
Checked by:	File Name:		
Approved by:	Date: 1963, 1964		

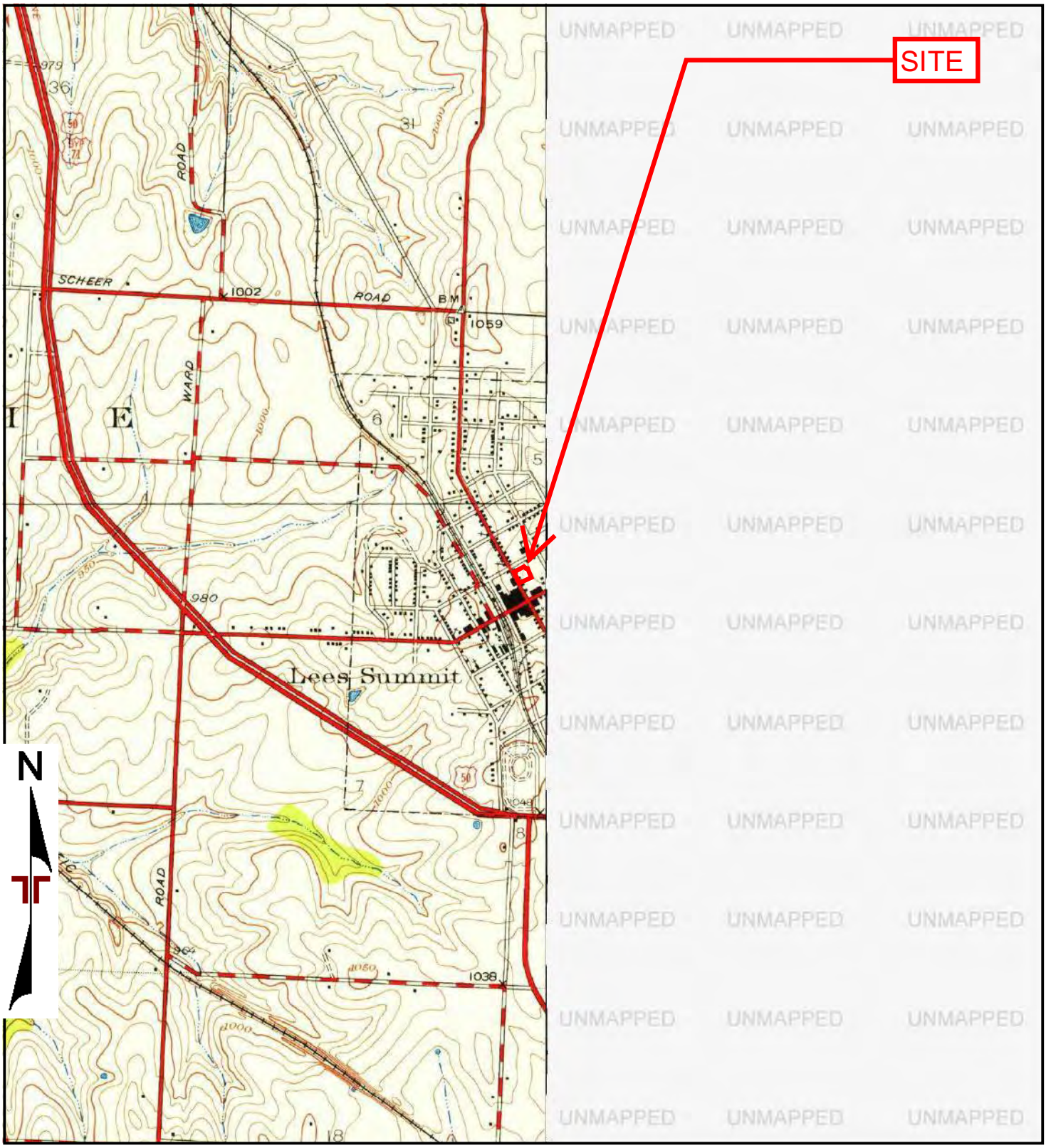
Appendix C



TP, Lees Summit, 1957, 7.5-minute
NE, Woods Chapel, 1957, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1957 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 1957			



TP, Lees Summit, 1949, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	
Drawn by:	
Checked by:	
Approved by:	

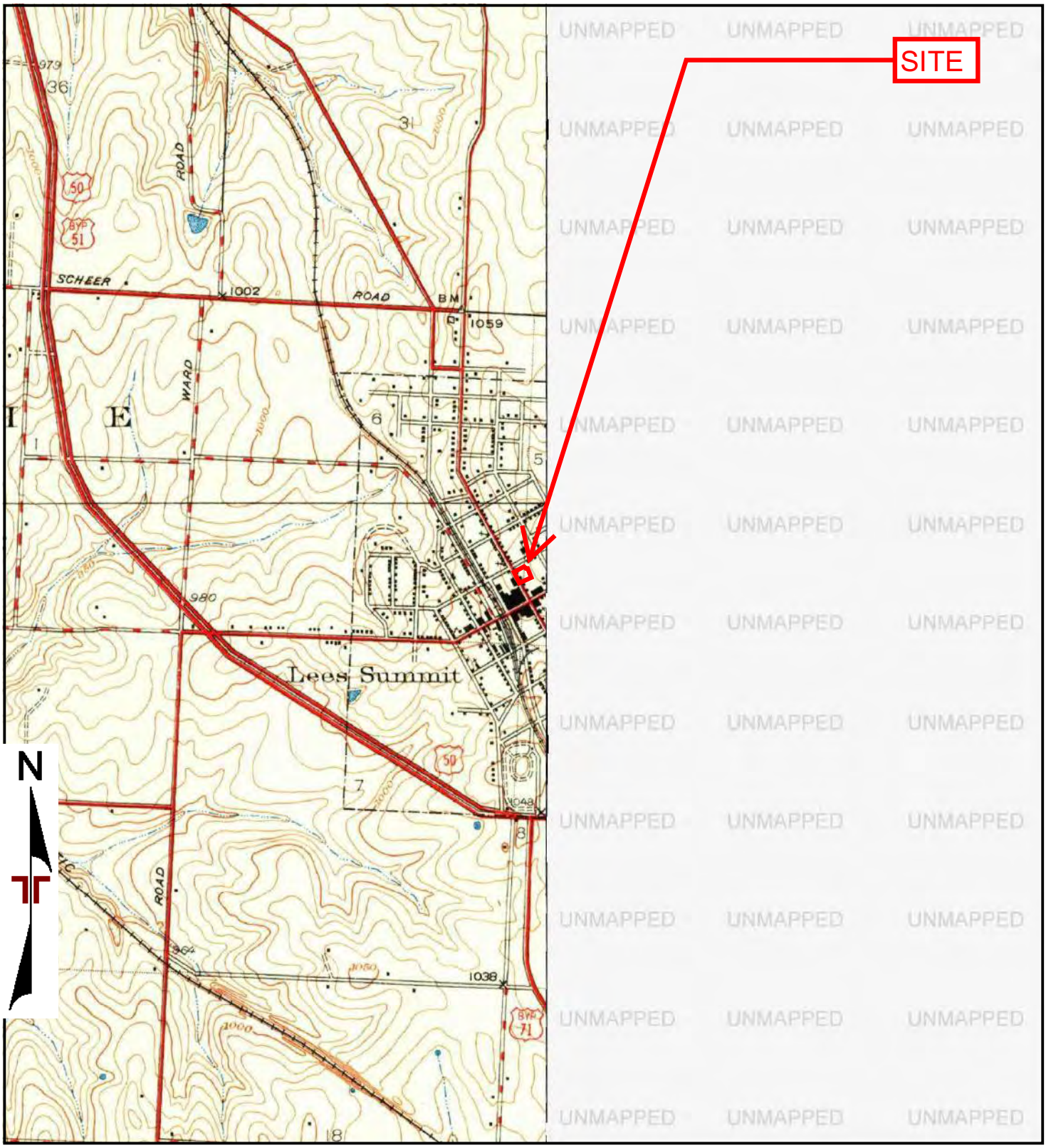
Project No.	02237353
Scale:	As Shown
File Name:	
Date:	1949

Terracon
15620 W. 113th Street
Lenexa, KS 66219

1949 TOPOGRAPHIC MAP

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Appendix
C



TP, Lees Summit, 1939, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	
Drawn by:	
Checked by:	
Approved by:	

Project No.	02237353
Scale:	As Shown
File Name:	
Date:	1939

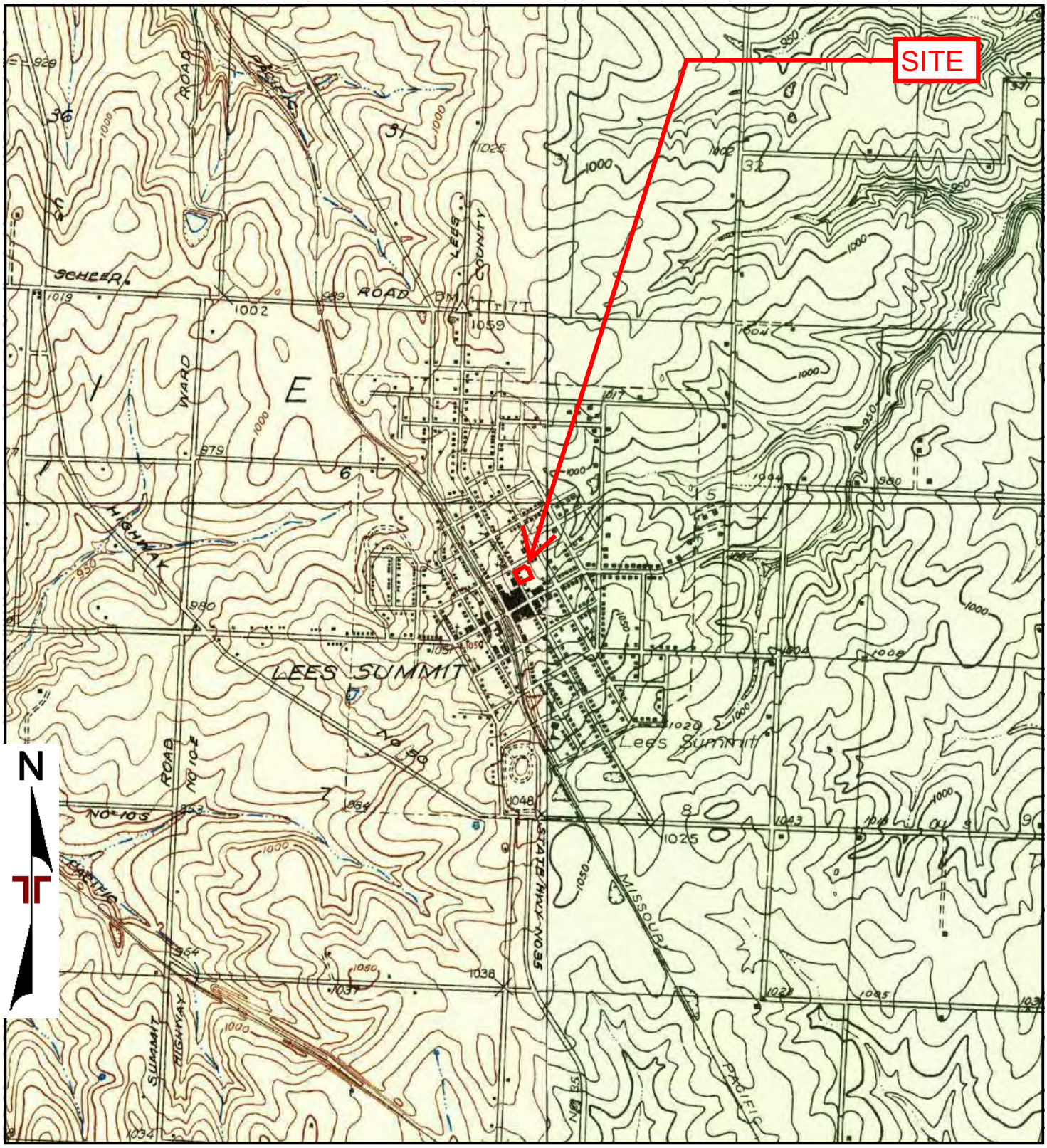
Terracon
15620 W. 113th Street
Lenexa, KS 66219

1939 TOPOGRAPHIC MAP

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Appendix

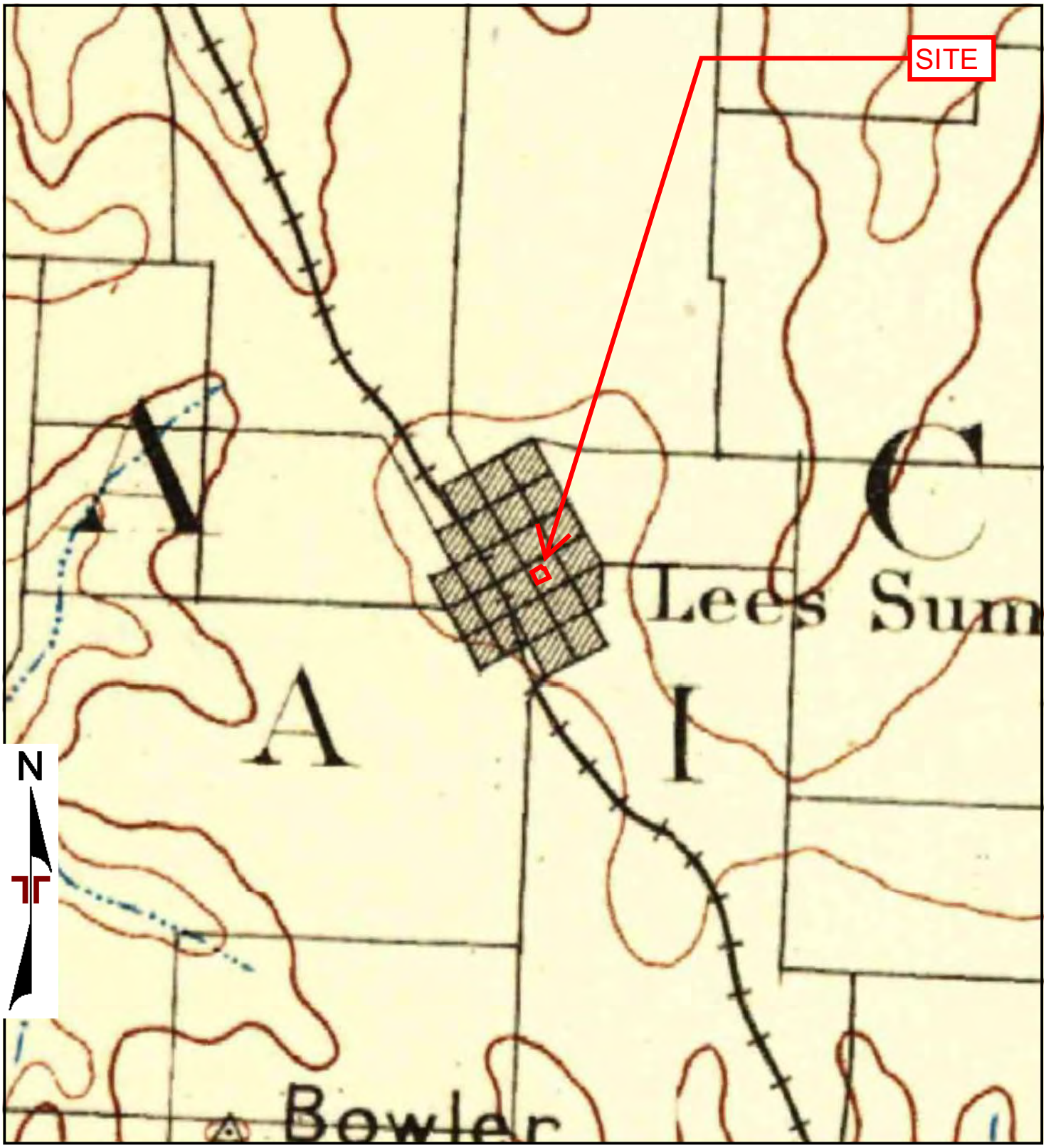
C



TP, Lees Summit, 1934, 7.5-minute
NE, Woods Chapel, 1934, 7.5-minute

0 Miles 0.25 0.5 1 1.5

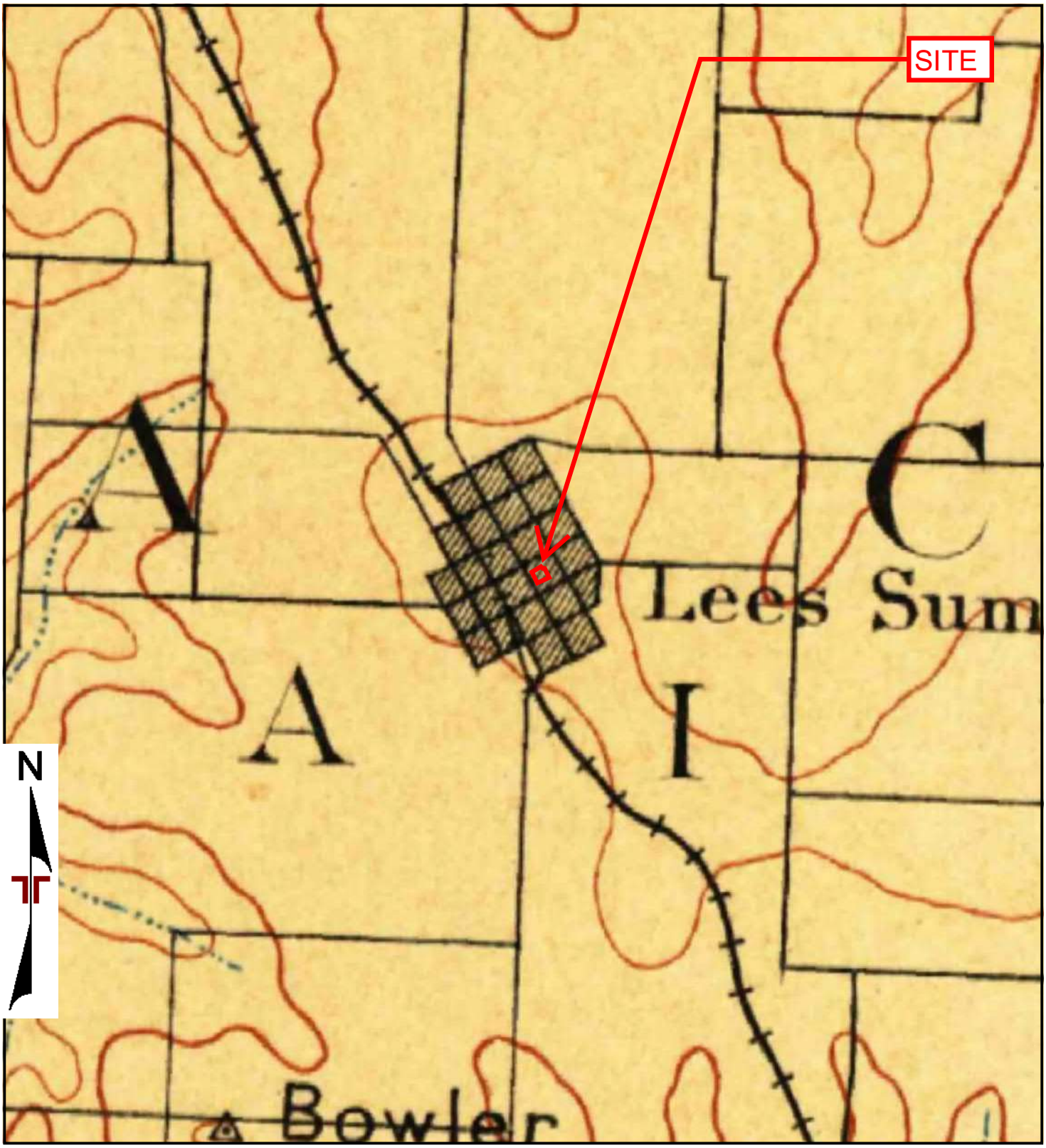
Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1934 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn by:	Scale: As Shown		Appendix C
Checked by:	File Name:		
Approved by:	Date: 1934		



TP, Harrisonville, 1894, 30-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1894 TOPOGRAPHIC MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 1894			



TP, Harrisonville, 1892, 30-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	
Drawn by:	
Checked by:	
Approved by:	

Project No.	02237353
Scale:	As Shown
File Name:	
Date:	1892

Terracon
15620 W. 113th Street
Lenexa, KS 66219

1892 TOPOGRAPHIC MAP

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Appendix
C

Fire Station #1

207 SE Douglas

Lees Summit, MO 64063

Inquiry Number: 7554931.8

January 30, 2024

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

01/30/24

Site Name:

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063
EDR Inquiry # 7554931.8

Client Name:

Terracon
15620 W. 113th Street
Lenexa, KS 66219
Contact: Marci Brockett

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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: January 01, 1996	USGS/DOQQ
1990	1"=500'	Acquisition Date: January 01, 1990	USGS/DOQQ
1985	1"=500'	Flight Date: July 09, 1985	NHAP
1981	1"=500'	Flight Date: February 10, 1981	NHAP
1979	1"=500'	Flight Date: August 07, 1979	USDA
1976	1"=500'	Flight Date: March 27, 1976	USDA
1969	1"=500'	Flight Date: September 30, 1969	USDA
1957	1"=500'	Flight Date: June 10, 1957	USDA
1952	1"=500'	Flight Date: October 20, 1952	USDA
1940	1"=500'	Flight Date: September 27, 1940	USDA
1936	1"=500'	Flight Date: August 18, 1936	USDA

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0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2020 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2020			

0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2016 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2016			

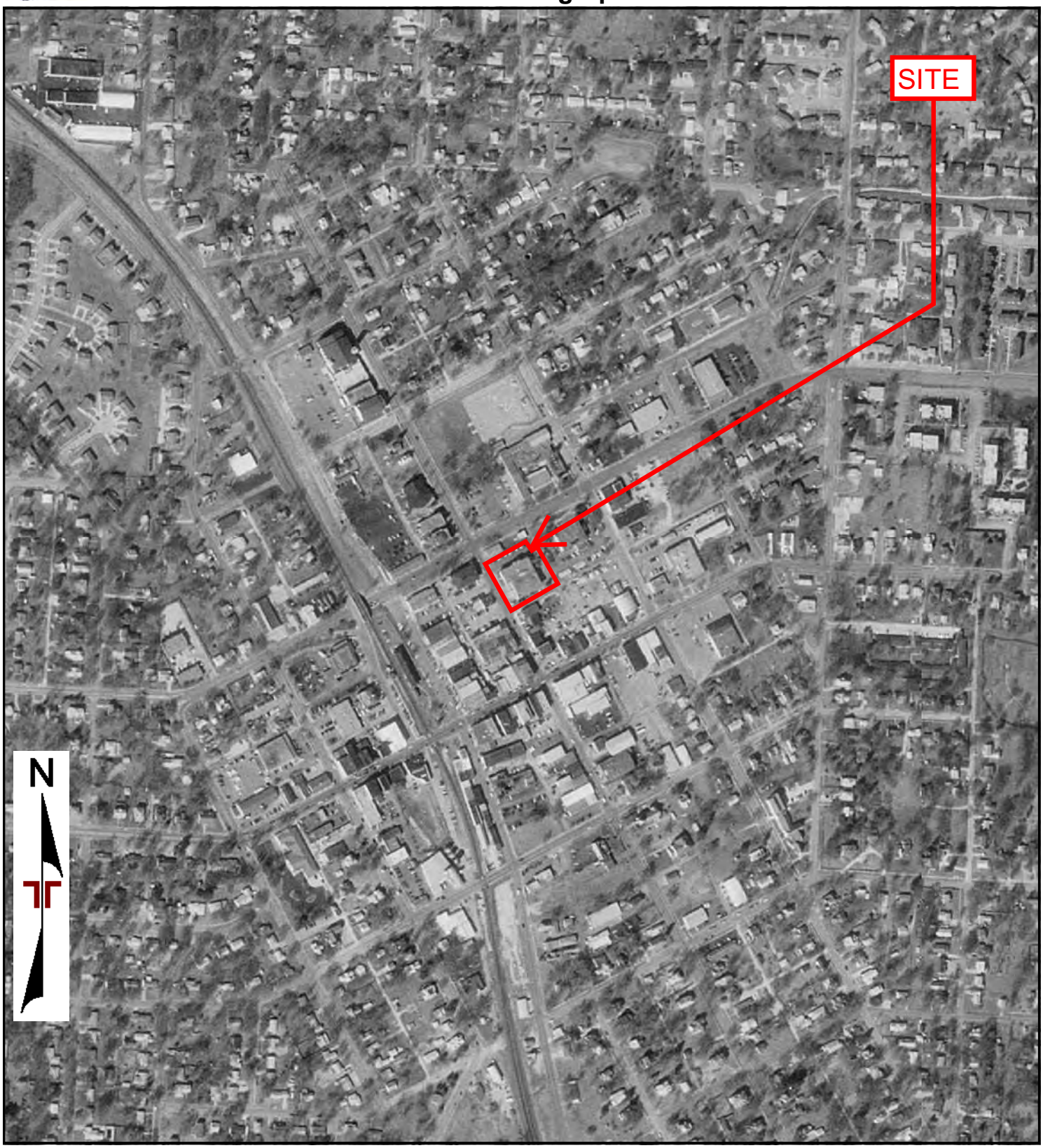
0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2012 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2012			

0 Feet 500 1000 2000

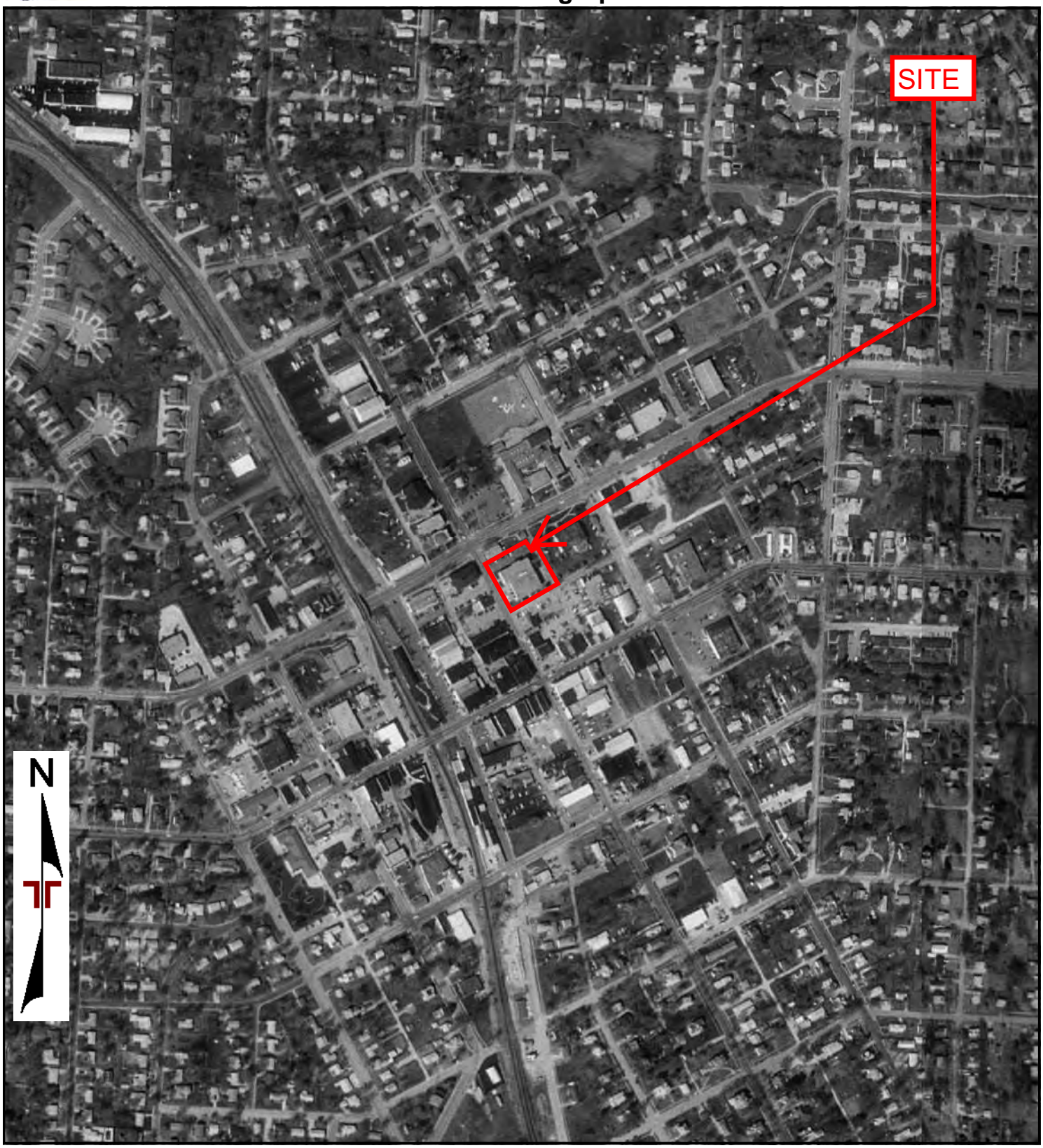
Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2009 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2009			

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	2006 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2006			



0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1996 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1996			



0 Feet 500 1000 2000

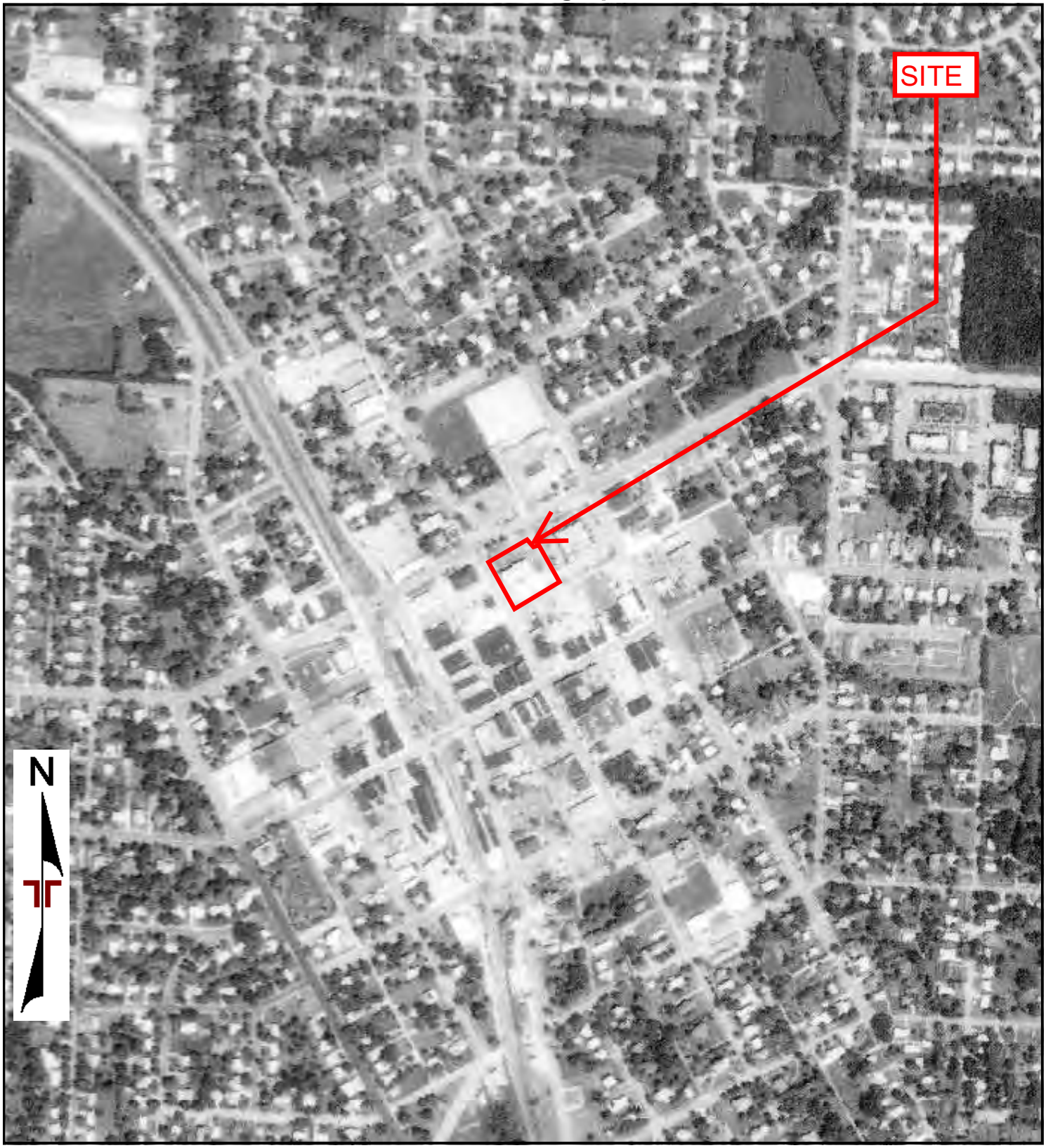
Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1990 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1990			

0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1985 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1985			

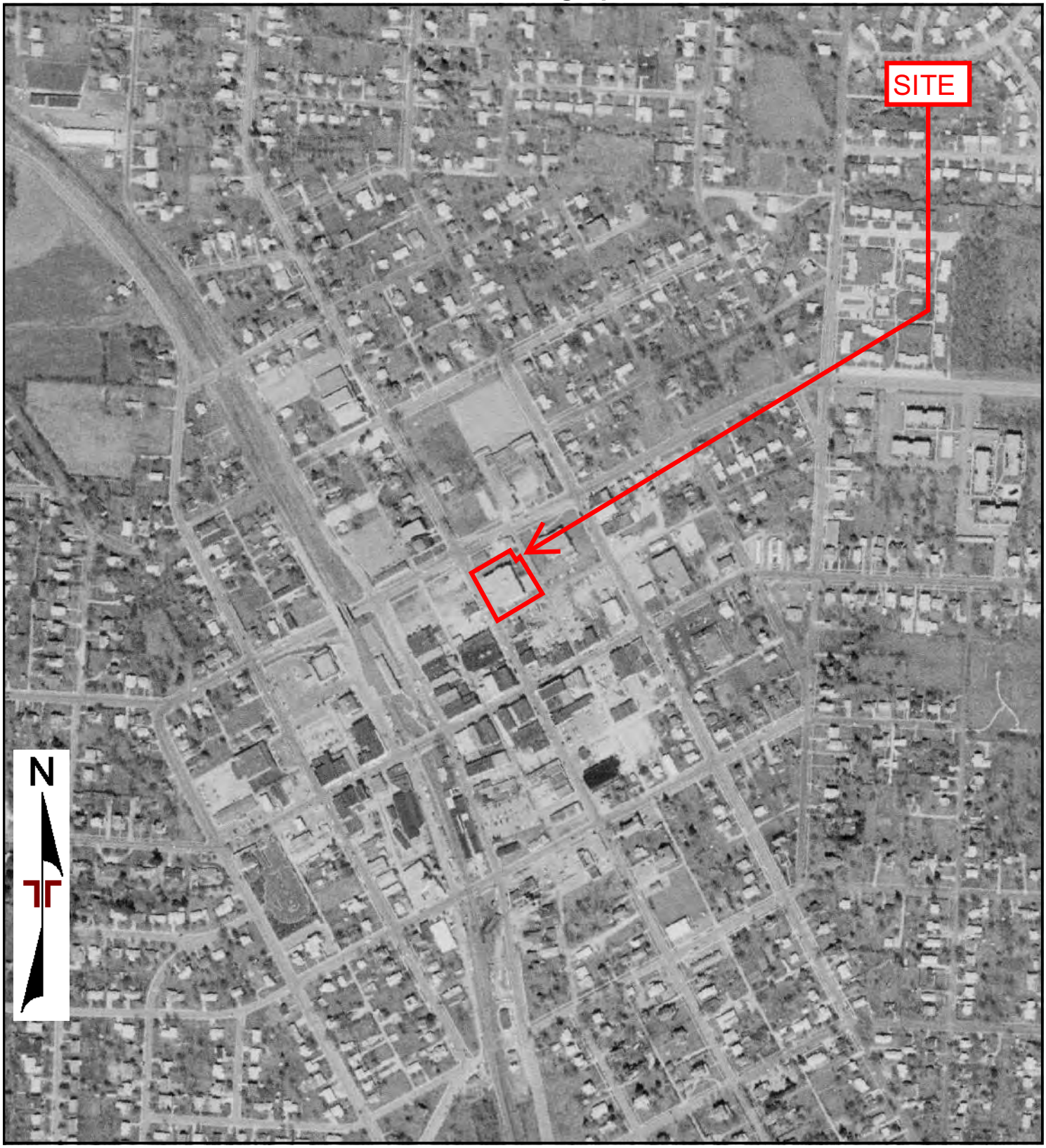
0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1981 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1981			



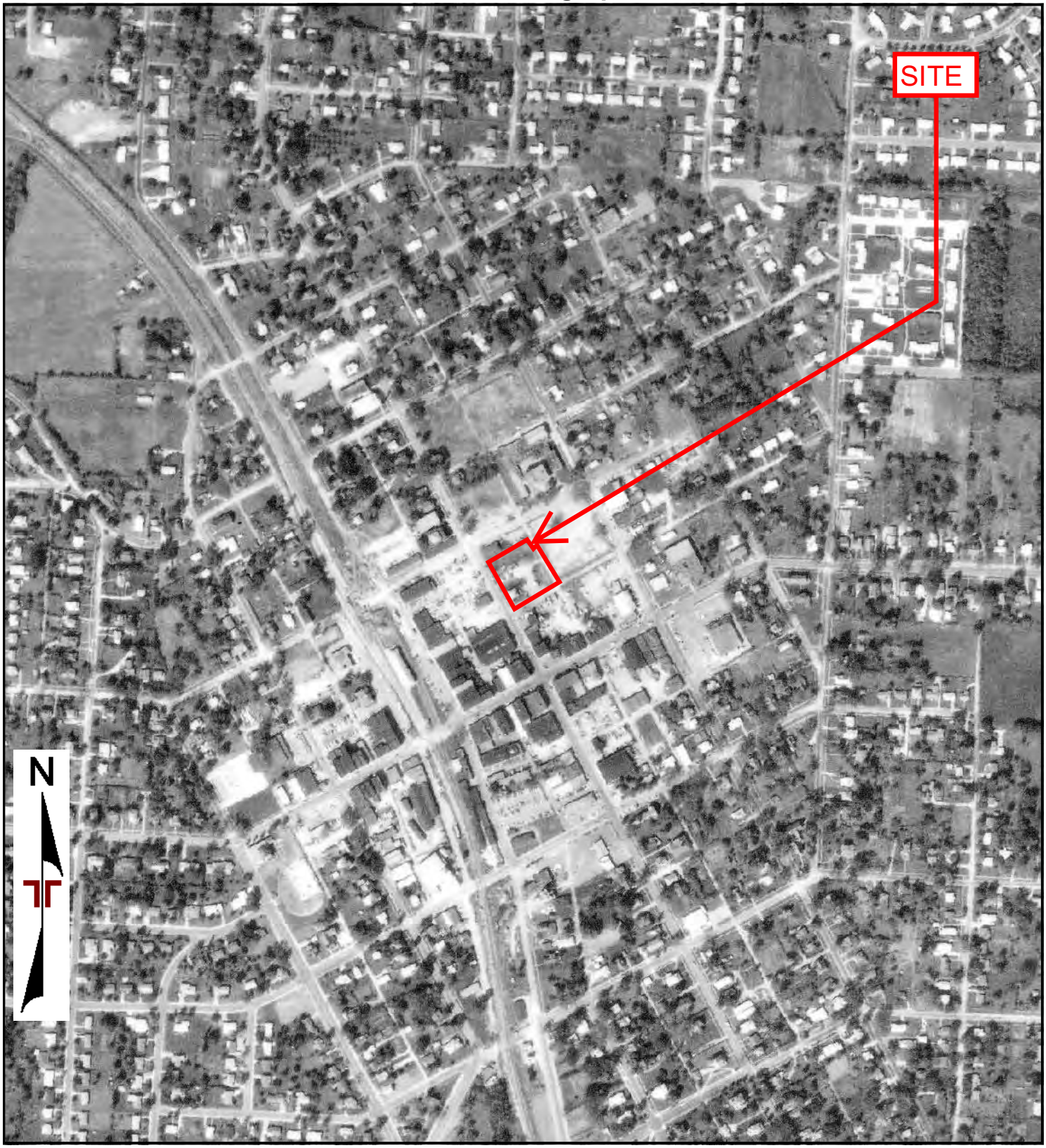
0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1979 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1979			



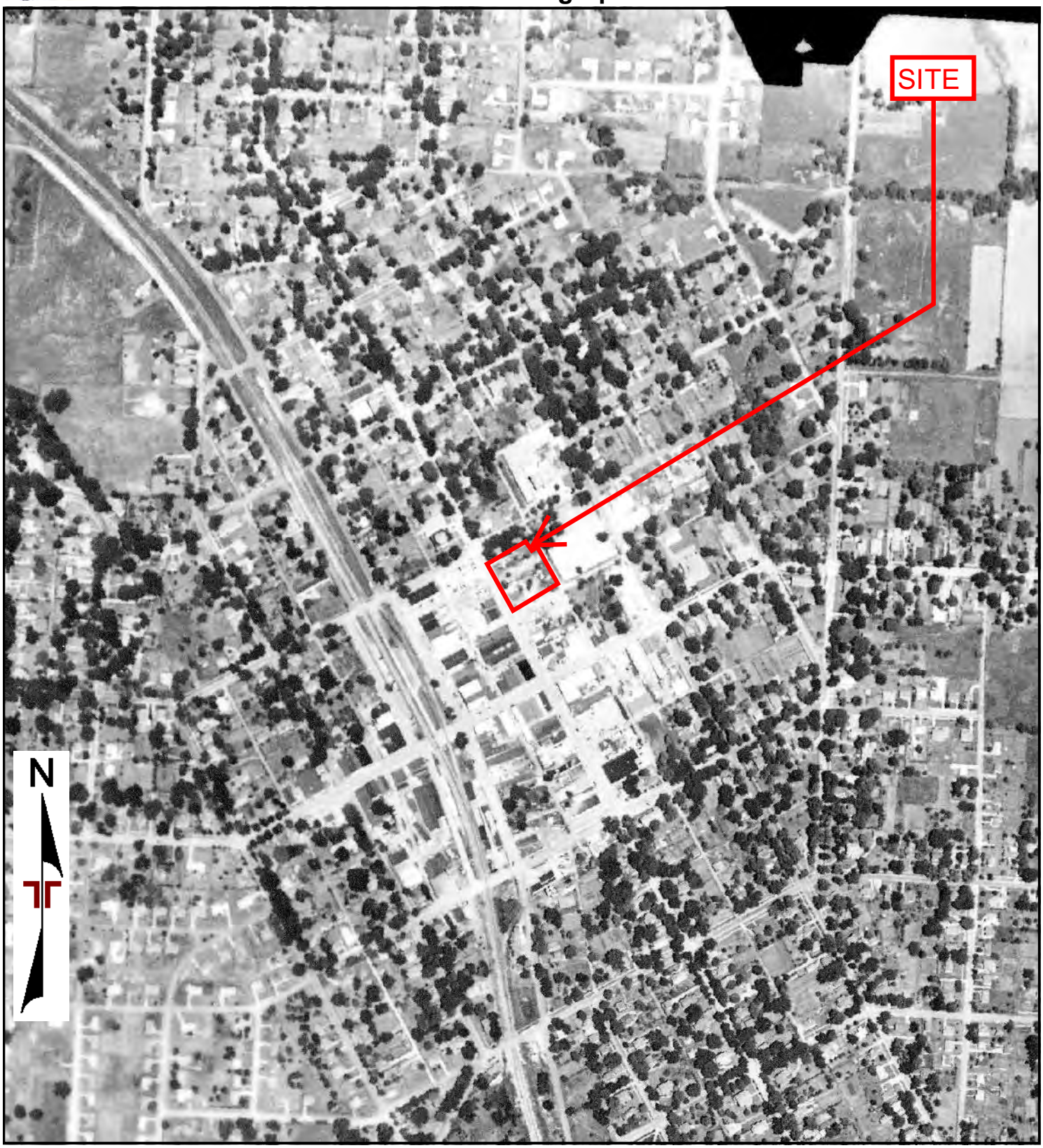
0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1976 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1976			



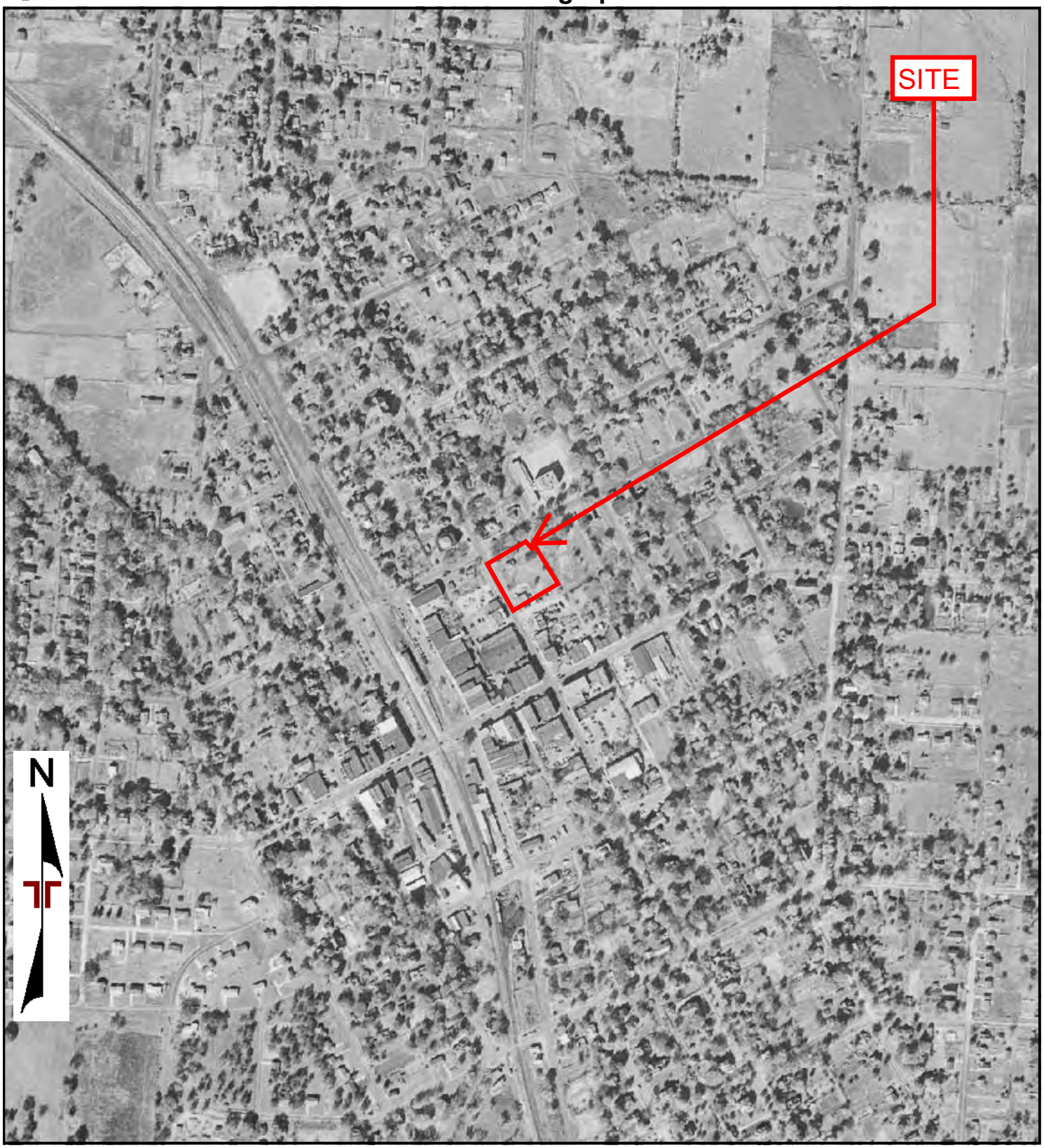
0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1969 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1969			



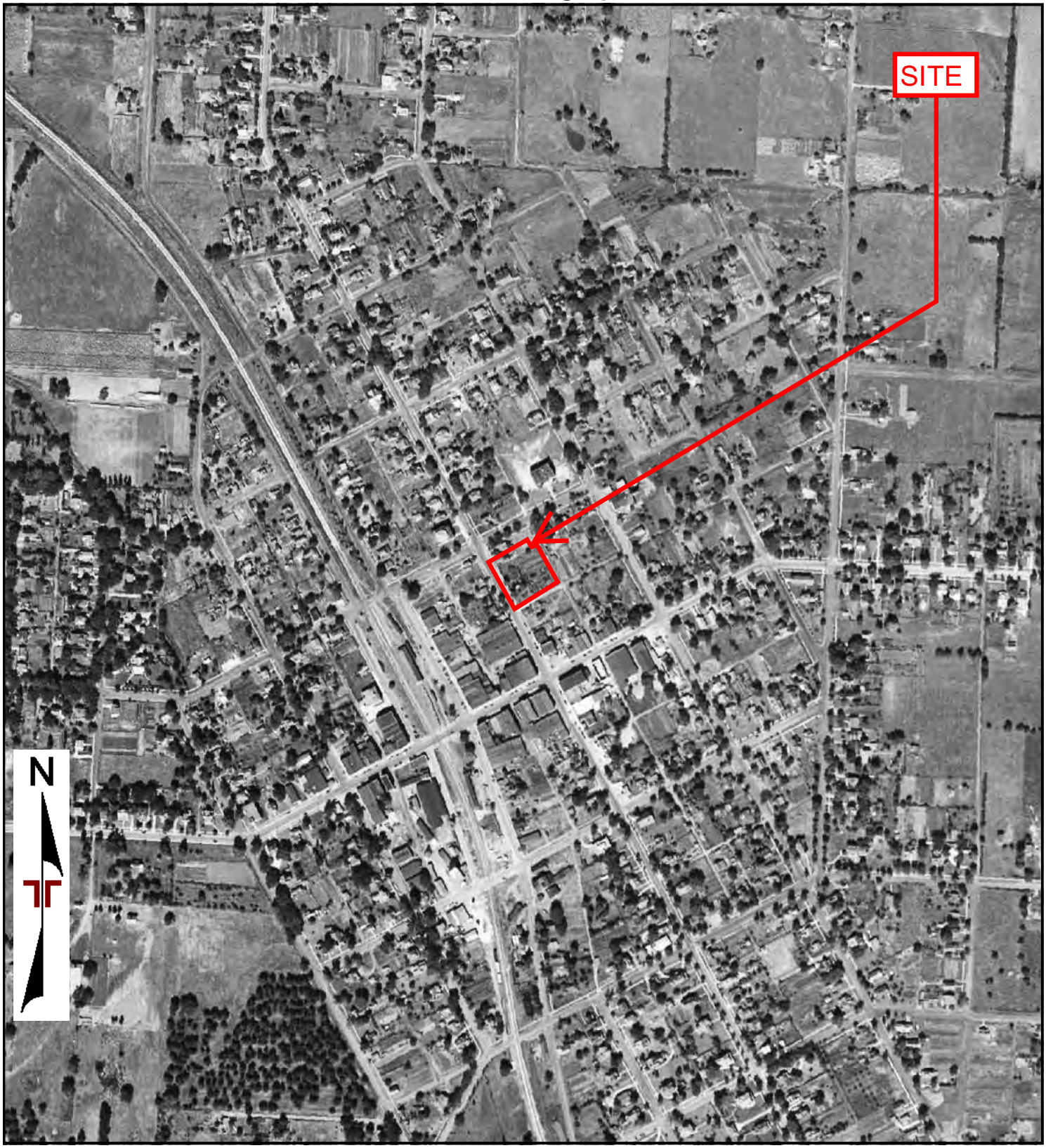
0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1957 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1957			



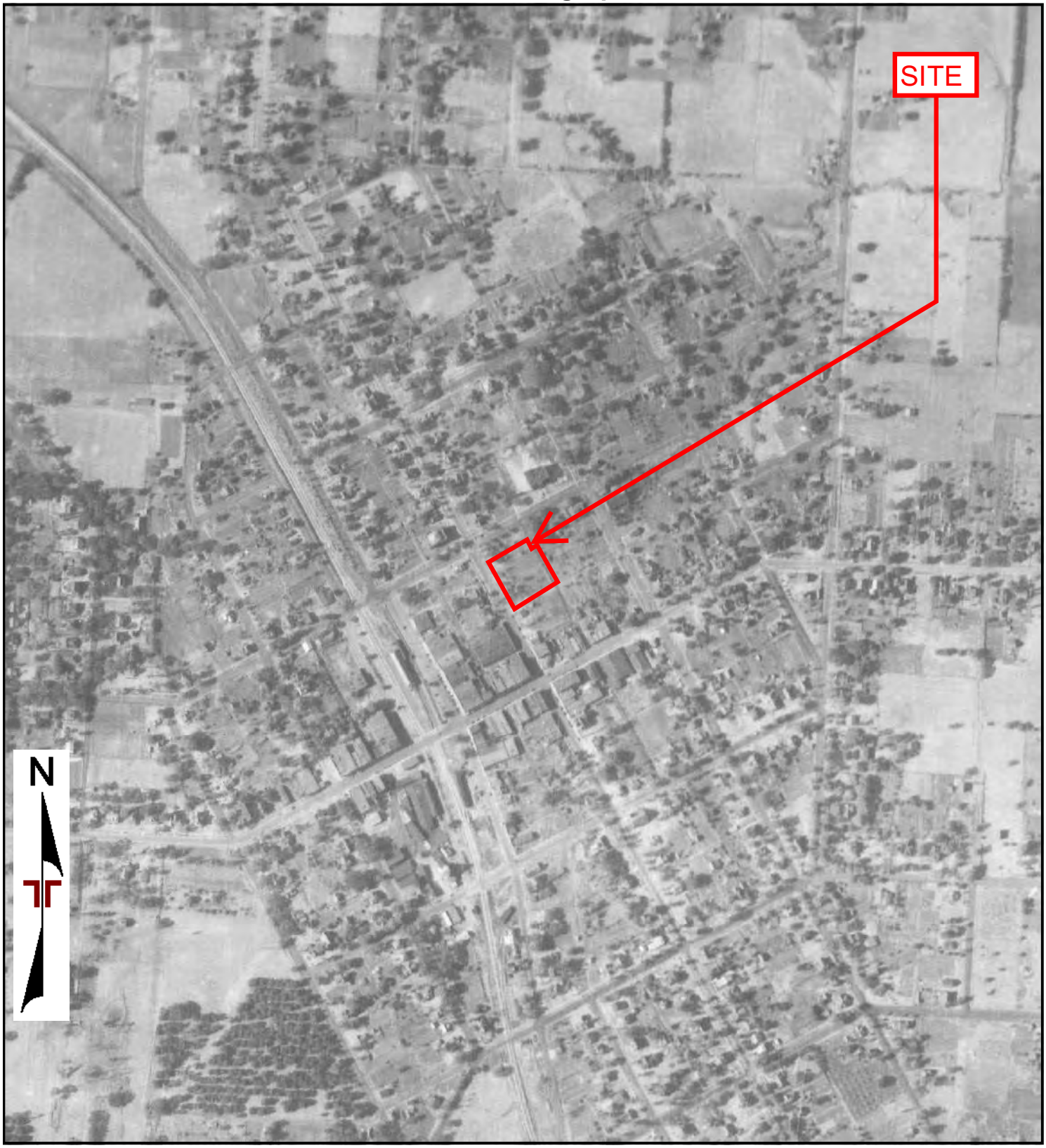
0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1952 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1952			



0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1940 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1940			



0 Feet 500 1000 2000

Project Manager:	Project No: 02237353	Terracon 15620 W. 113th Street Lenexa, KS 66219	1936 AERIAL PHOTOGRAPH Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1936			

Fire Station #1

207 SE Douglas

Lees Summit, MO 64063

Inquiry Number: 7554931.3

January 30, 2024

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

01/30/24

Site Name:

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063
EDR Inquiry # 7554931.3

Client Name:

Terracon
15620 W. 113th Street
Lenexa, KS 66219
Contact: Marci Brockett

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Terracon were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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Certified Sanborn Results:

Certification # 7BAF-4716-83A5

PO # NA

Project 02237353

Maps Provided:

1945
1935
1927
1918
1909
1898
1893

Sanborn® Library search results

Certification #: 7BAF-4716-83A5

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

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Key

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

1945 Source Sheets

Volume 1, Sheet 3
1945

Volume 1, Sheet 2
1945

Volume 1, Sheet 4
1945

1935 Source Sheets

Volume 1, Sheet 4
1935

Volume 1, Sheet 3
1935

Volume 1, Sheet 2
1935

1927 Source Sheets

Volume 1, Sheet 2
1927

Volume 1, Sheet 3
1927

1918 Source Sheets

Volume 1, Sheet 3
1918

Volume 1, Sheet 2
1918

Sanborn Sheet Key

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

1909 Source Sheets

Volume 1, Sheet 3
1909

Volume 1, Sheet 2
1909

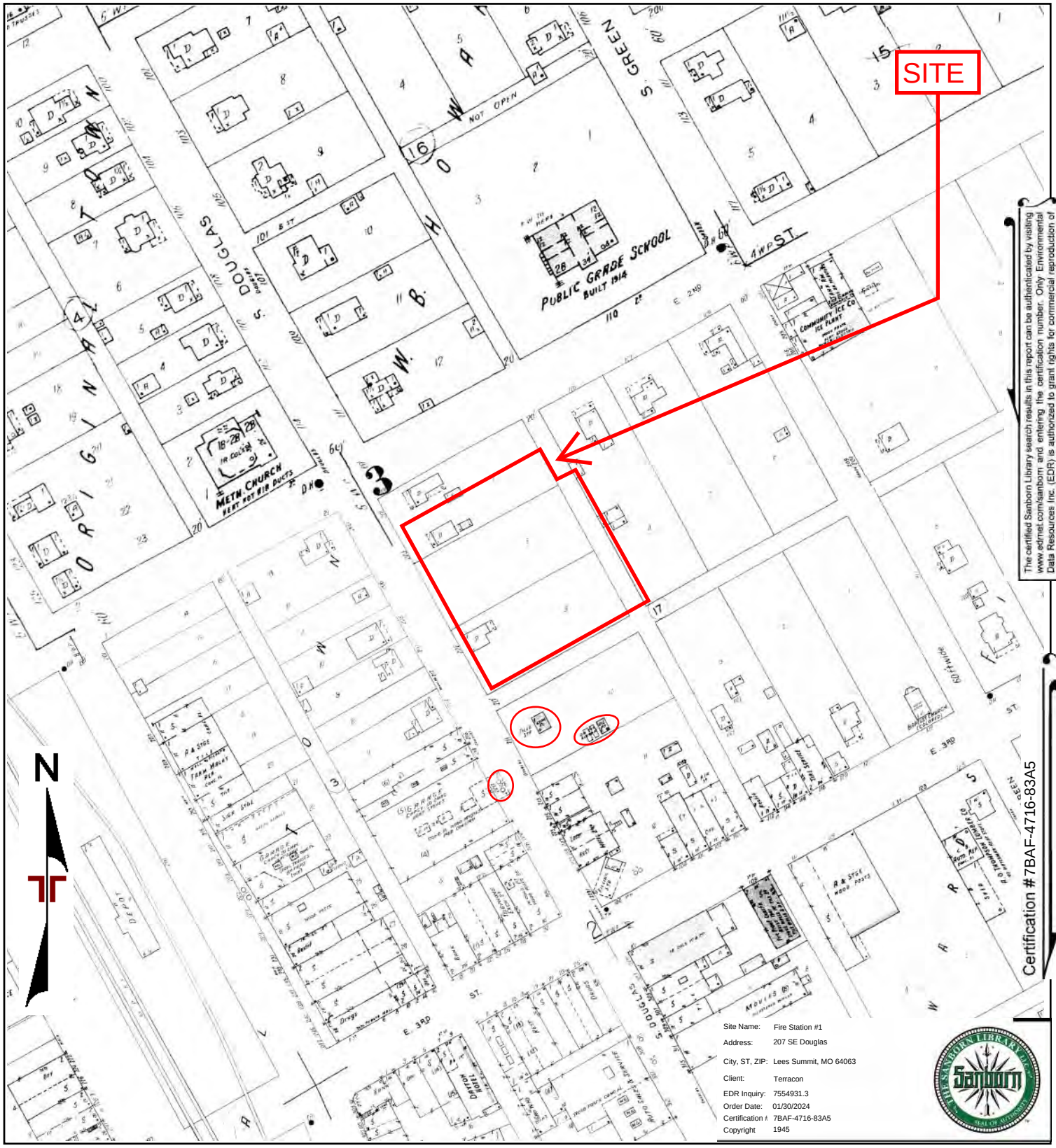
1898 Source Sheets

Volume 1, Sheet 2
1898

Volume 1, Sheet 1
1898

1893 Source Sheets

Volume 1, Sheet 1
1893



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Certification # 7BAF-4716-83A5

Volume 1, Sheet 4
Volume 1, Sheet 2
Volume 1, Sheet 3

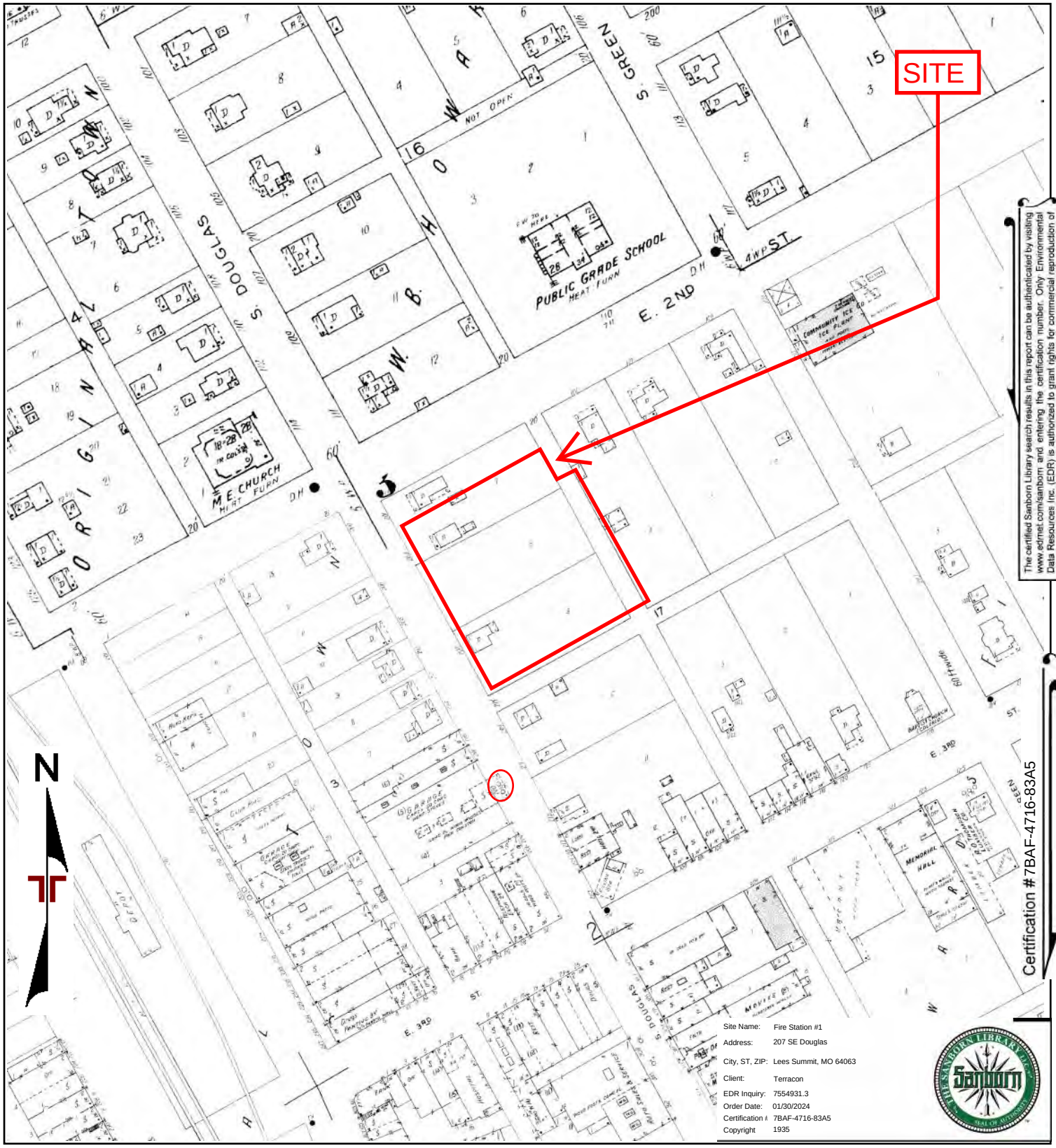
= REC location

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 15620 W. 113th Street Lenexa, KS 66219	1945 SANBORN MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn By:	Scale: As Shown		Appendix [redacted] C
Checked By:	File Name:		
Approved By:	Date: 1945		

Certified Sanborn® Map

1935



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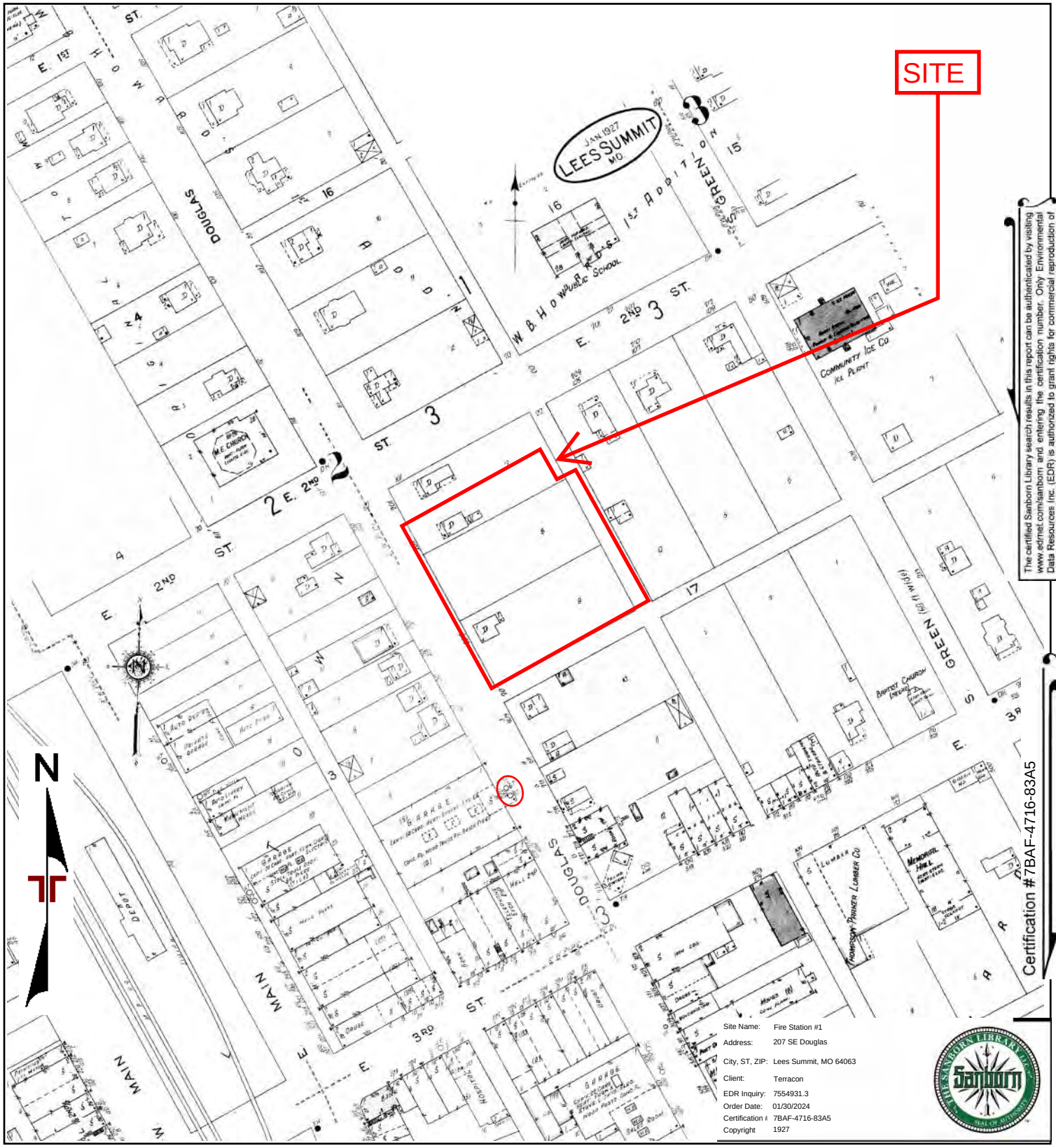
Certification # 7BAF-4716-83A5

Volume 1, Sheet 2
Volume 1, Sheet 3
Volume 1, Sheet 4

= REC location

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 15620 W. 113th Street Lenexa, KS 66219	1935 SANBORN MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn By:	Scale: As Shown		Appendix C
Checked By:	File Name:		
Approved By:	Date: 1935		



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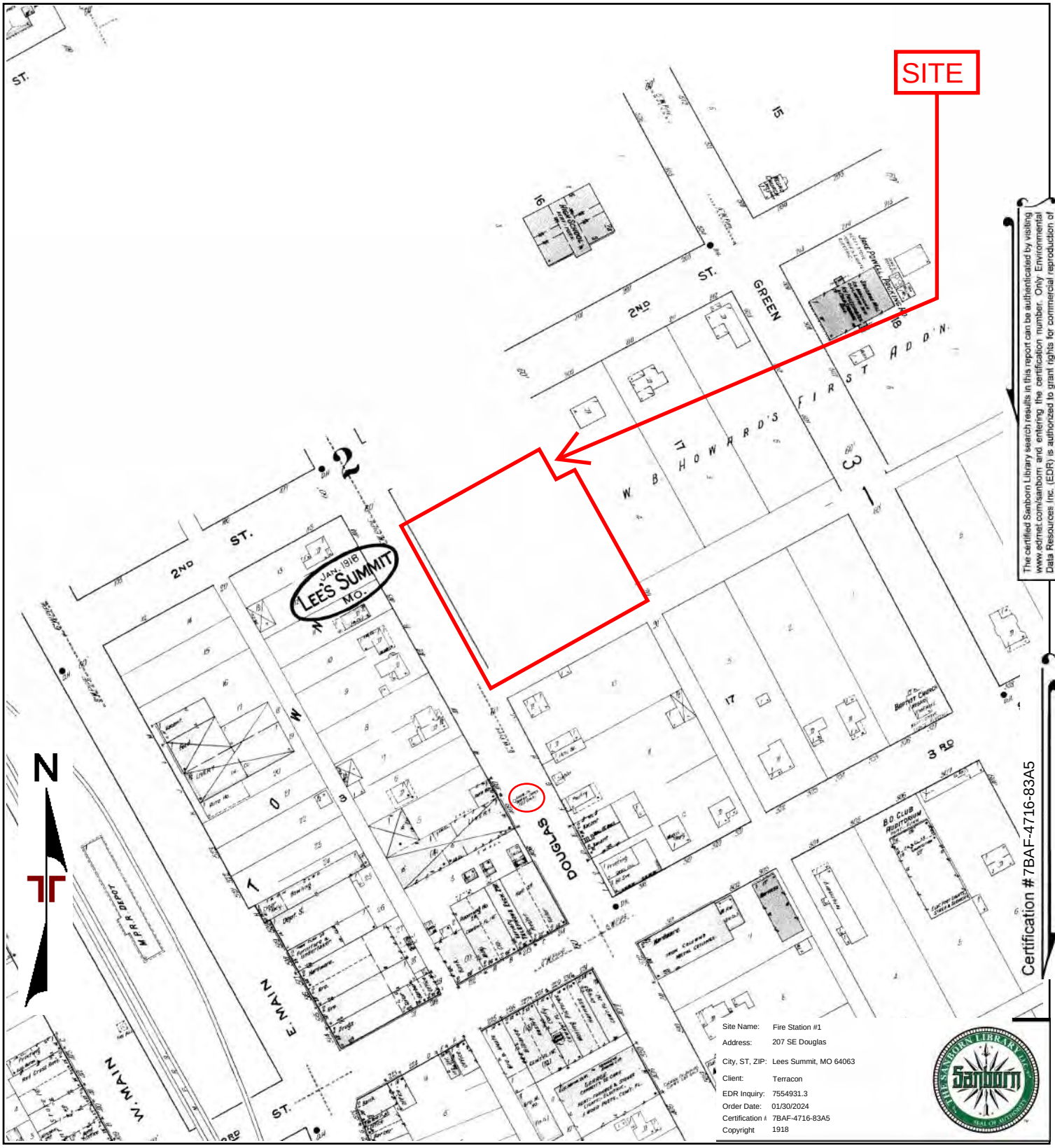
Certification #7BAF-4716-83A5

Volume 1, Sheet 3
Volume 1, Sheet 2

= REC location

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 15620 W. 113th Street Lenexa, KS 66219	1927 SANBORN MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn By:	Scale: As Shown		Appendix [redacted]
Checked By:	File Name:		C
Approved By:	Date: 1927		

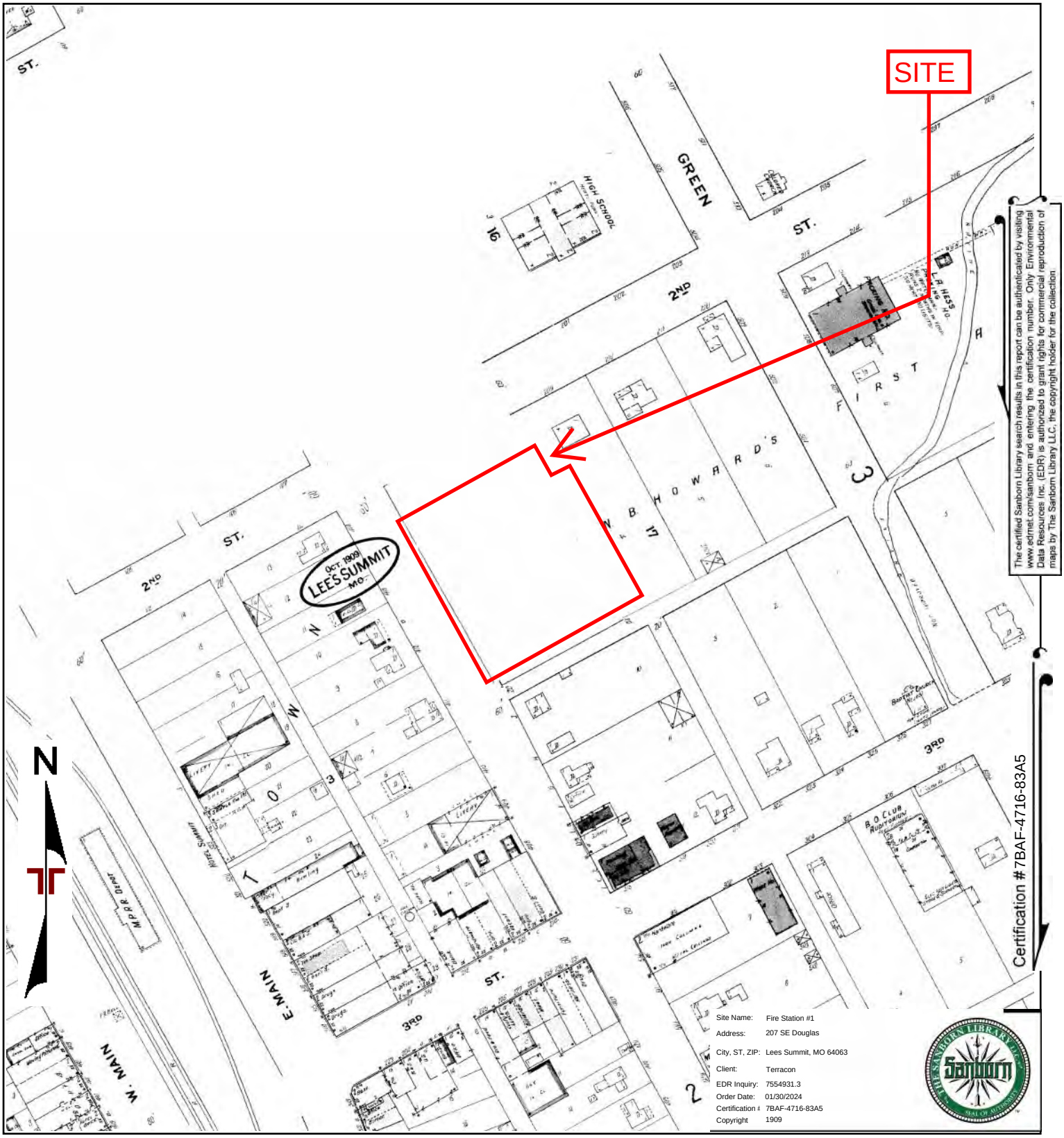


Volume 1, Sheet 2
Volume 1, Sheet 3

= REC location

0 Feet 150 300 600

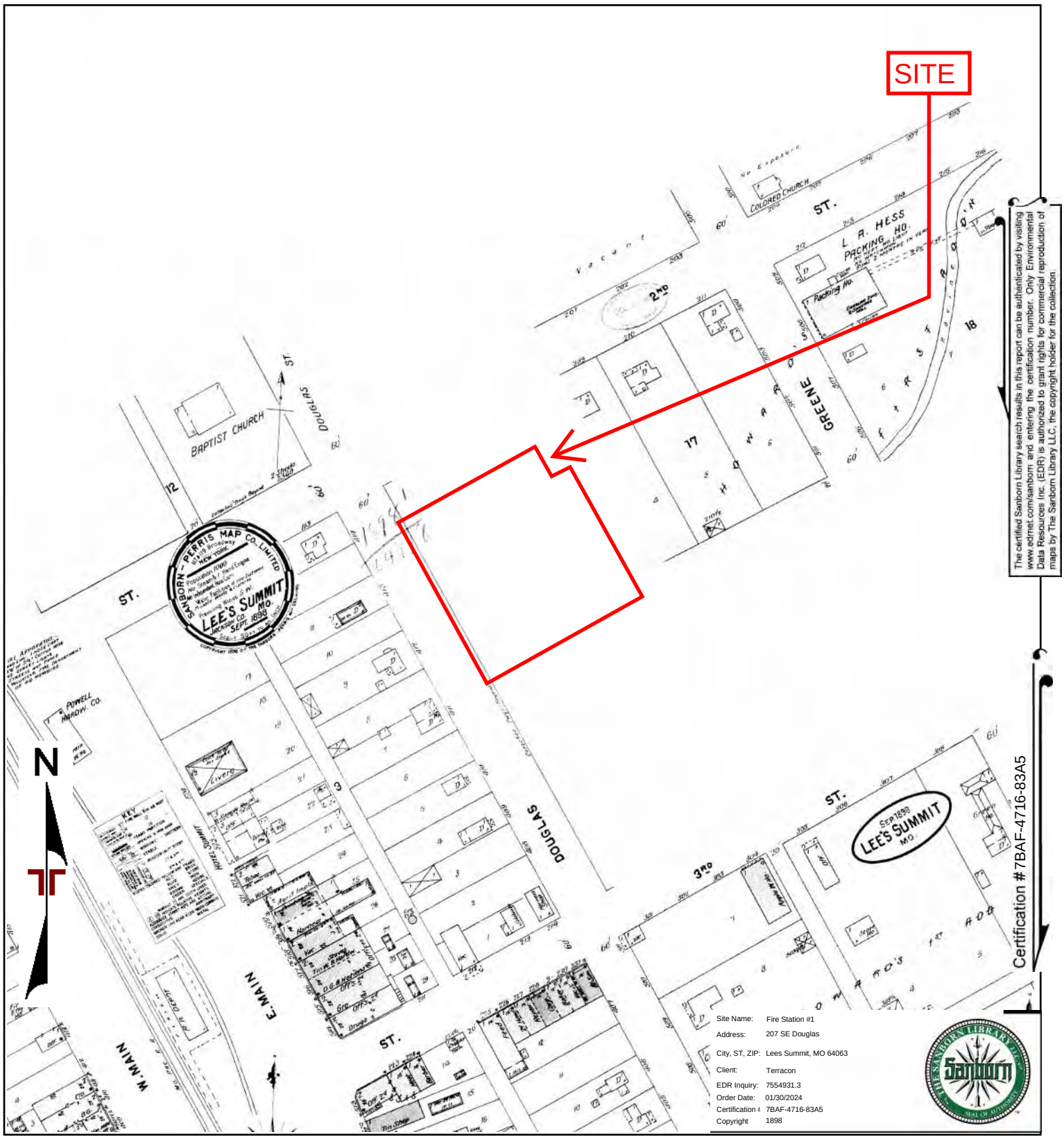
Project Manager:	Project No:	Terracon 15620 W. 113th Street Lenexa, KS 66219	1918 SANBORN MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn By:	Scale: As Shown		Appendix [redacted] C
Checked By:	File Name:		
Approved By:	Date: 1918		



Volume 1, Sheet 2
Volume 1, Sheet 3

0 Feet 150 300 600

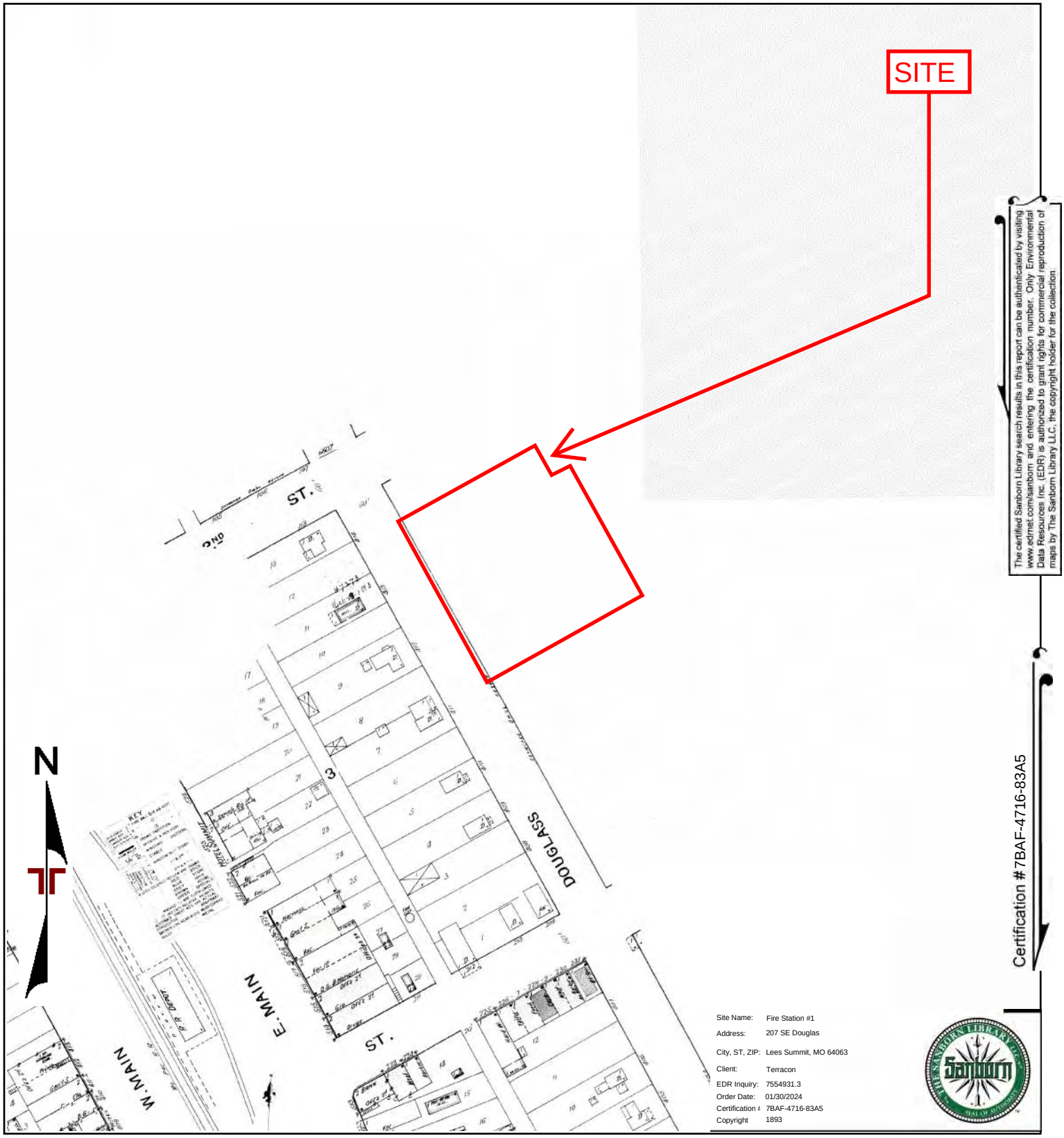
Project Manager:	Project No:	Terracon 15620 W. 113th Street Lenexa, KS 66219	1909 SANBORN MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn By:	Scale: As Shown		Appendix [redacted] C
Checked By:	File Name:		
Approved By:	Date: 1909		



Volume 1, Sheet 1
Volume 1, Sheet 2

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 15620 W. 113th Street Lenexa, KS 66219	1898 SANBORN MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063
Drawn By:	Scale: As Shown		Appendix [redacted]
Checked By:	File Name:		C
Approved By:	Date: 1898		



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Certification # 7BAF-4716-83A5

Volume 1, Sheet 1

0 Feet 150 300 600

Project Manager:	Project No:	Terracon 15620 W. 113th Street Lenexa, KS 66219	1893 SANBORN MAP Fire Station #1 207 SE Douglas Lees Summit, MO 64063	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1893			

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Inquiry Number: 7554931.5
January 31, 2024

The EDR-City Directory Image Report

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR® Environmental Data Resources Inc

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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
1987	☑	☑	Cole Criss-Cross Directory
1977	☑	☑	Cole Criss-Cross Directory
1972	☑	☑	Cole Criss-Cross Directory
1967	☑	☑	Cole Criss-Cross Directory
1962	☑	☑	Cole Criss-Cross Directory
1959	☐	☐	Cole Criss-Cross Directory
1954	☐	☐	Cole Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

207 SE Douglas
Lees Summit, MO 64063

Year	CD Image	Source	
SE DOUGLAS ST			
2020	pg A8	EDR Digital Archive	
2017	pg A13	Cole Information	
2014	pg A19	Cole Information	
2010	pg A24	Cole Information	
2005	pg A30	Cole Information	
2000	pg A34	Cole Information	
1995	pg A39	Cole Information	
1992	pg A43	Cole Information	
1987	pg A48	Cole Criss-Cross Directory	
1977	pg A52	Cole Criss-Cross Directory	
1972	pg A56	Cole Criss-Cross Directory	
1972	pg A57	Cole Criss-Cross Directory	
1967	pg A62	Cole Criss-Cross Directory	
1962	pg A67	Cole Criss-Cross Directory	
1962	pg A68	Cole Criss-Cross Directory	
1959	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source
1954	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

Year	CD Image	Source	
NE GREEN ST			
2020	pg. A2	EDR Digital Archive	
2017	pg. A9	Cole Information	
2014	pg. A15	Cole Information	
2010	pg. A20	Cole Information	
2005	pg. A26	Cole Information	
2000	pg. A31	Cole Information	
1995	pg. A35	Cole Information	
1992	pg. A40	Cole Information	
1987	pg. A45	Cole Criss-Cross Directory	
1977	pg. A49	Cole Criss-Cross Directory	
1972	pg. A53	Cole Criss-Cross Directory	
1967	pg. A58	Cole Criss-Cross Directory	
1962	pg. A63	Cole Criss-Cross Directory	
1959	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source
1954	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source
NE MAIN ST			
2020	pg. A4	EDR Digital Archive	
2017	pg. A10	Cole Information	
2014	pg. A16	Cole Information	
2010	pg. A21	Cole Information	
2005	pg. A27	Cole Information	
2000	pg. A32	Cole Information	
1995	pg. A36	Cole Information	
1992	pg. A41	Cole Information	
1987	pg. A46	Cole Criss-Cross Directory	
1977	pg. A50	Cole Criss-Cross Directory	
1972	pg. A54	Cole Criss-Cross Directory	
1967	pg. A59	Cole Criss-Cross Directory	

FINDINGS

Year	CD Image	Source	
1967	pg. A60	Cole Criss-Cross Directory	
1962	pg. A64	Cole Criss-Cross Directory	
1959	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source
1954	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source

SE 2ND ST

2020	pg. A7	EDR Digital Archive	
2017	pg. A12	Cole Information	
2014	pg. A18	Cole Information	
2010	pg. A23	Cole Information	
2005	pg. A29	Cole Information	
2000	pg. A33	Cole Information	
1995	pg. A38	Cole Information	
1992	pg. A42	Cole Information	
1987	pg. A47	Cole Criss-Cross Directory	
1977	pg. A51	Cole Criss-Cross Directory	
1972	pg. A55	Cole Criss-Cross Directory	
1967	pg. A61	Cole Criss-Cross Directory	
1962	pg. A65	Cole Criss-Cross Directory	
1962	pg. A66	Cole Criss-Cross Directory	
1959	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source
1954	-	Cole Criss-Cross Directory	Target and Adjoining not listed in Source

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

NE GREEN ST 2020

3	Merredeth James
4	Carla Kissee
	Elliot Viker
	Merredeth Viker
5	Christy Miller
	Nichole Sherry
6	Cynthia Stovall
	Kevin Stovall
7	David Kemp
8	Alison Winger
	George Winger
	Kathleen Coleman
9	Bradley Phillips
	Kayla Phillips
	Kerry Thornton
101	Martha Ludden
	Michael Iverson
102	VANBUREN CLIFF DC
103	Lynne Pierce
	Stephanie Errickson
	Stephanie Wire
106	Cortney Holm
	Steven Holm
115	Elnora Smart
200	Christopher Shoemaker
	Connie Shoemaker
	Paige Shoemaker
201	Bernice Smart
203	Danna Gray
	Eleanor Gray
	Eleanor Nims
	Jonathan Gray
	Lauren Herren
204	Amber Caw
	April Caw
	Emmett Caw
	Paul McBrine
300	Jourdan Goodale
301	Audree Oldham
	Steven Oldham
	Ted Oldham
302	Christopher Hatt
305	Susan Batzold
	William Batzold
306	Jason Sims
	Megan Anderson
307	Larry Leslie
308	Kelly Davis
309	Kennedy Merrell
310	Kate Dittmann

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

NE GREEN ST 2020 (Cont'd)

312	Shirley Everman
313	January Pointer
	January Shout
315	Claire McSpadden
408	Jane Bollin
	Jonathan Prier
501	Jourdan Walling
504	Dennis Fastnacht
	Joni Fastnacht
	Karen Maghirang
506	Mayla Wolgamott
	Robert Wolgamott
507	Colin Holman
	Jaime Holman
	Jessie Carter
509	Kinyon Price
	Mark Rumsey
	Stacy Rankin
511	Harvey Larson
	Mary Kurz
	Tracy Larson
513	Chad Hahn
	Jason Bailey
	Mary Bailey
600	Jerry Freeman
602	Goodwin Krzywicki
603	Isabelle Loux
	John Loux
	Tracie Loux
604	Alan Davis
	Tiffany Davis
605	Frances Williams
	Jean Williams
	Robert Williams
606	Becky Crawford
	Charles Crawford
	Marle Cooper
	Morgan White
	Pete White
607	Michelle Geringer

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

NE MAIN ST 2020

107	Brian Simpson
	John McDaniel
	Joycelin McDaniel
109	James Montalto
	Kim Mason
111	Robert Vanmeter
	Sara Hodges
203	Andrew Lovett
	Diana Carollo
	Janet Queeney
	Joseph Carollo
205	Bob Jackson
207	Cheryl Feeback
209	Catherine Hoormann
	Jake MacKey
	Shannon Williams
211	Charie Ash
	James Glover
	John Ash
212	AVIDAIR
	Craig Rookstool
	FIVE STAR TRUCK SALES LLC
	WE CONNECT ELECTRIC
214	PRECISION WINDOWS & DOORS
215	Emella Haddox
	Glendon Haddox
216	Gladys Sense
	Roger Sense
218	Rodney Slinker
	Virgina Marousek
	Zachary Nunez
219	Peggy Slinker
	Steven Slinker
	Vincent Slinker
221	Jeffrey Dietrich
	Lyndsay Kidd
300	Brian Paulsen
	Cristi Hamilton
	Cristi Paulsen
301	Jennifer Shippert
	Julie Bolch
	Lynda Dethluxay
	Matthew Ford
	Rebecca Ford
302	Deena McLaughlin
	Michael Withrow
304	Lisa Horne
	Ronald Smith
	Scott Jensen
	Shannon Jensen

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

NE MAIN ST 2020 (Cont'd)

305	Renee Hufford
306	Andrew Burris
	Eva Kimberlin
307	Betty Walker
	Deborah Sullins
	Merlin Sullins
	Samantha Sullins
	Victoria Chambers
308	Cathy Saathoff
	Jane Miller
	Shirley Saathoff
	Thomas Vanderpool
310	Ann Heeter
	Bets Kirby
	Christopher Heeter
	William Heeter
405	Bobby Brock
	Cameron Brock
	Jill Brock
407	Charles Ford
	Ismael Hernandez
	Joseph Vaughn
409	Bradley Noll
503	Maggie Scanlon
505	Karen Hull
	Sarah Williams
510	Jill van Berkom
	Samuel Willey
511	Jeffrey Williams
601	Lindsey Leslie
602	Beau Bailey
	Cristine Finnell
	Danessa Finnell
	David Gass
	Joel Jackson
	Samuel Jackson
	Sheila Jackson
605	Kelly Nelson
	Max Nelson
606	Jennifer Hejna
	Nathanael Marker
607	Beth Sparks
	Betty Ridge
	Gene Ridge
	Oliver Ridge
608	Brandon Scott
	David Newsom
	Max Mason
	Michelle Mason
609	Kamilah Clark

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

NE MAIN ST 2020 (Cont'd)

610	Paula Antle
611	Darren Madden
612	Brett Baker
	Cynthia Anderson-Baker
	Marcella Cocherell
	Theresa Baker
613	Carol Anderson
	David Anderson
	Vernon Anderson
614	Josh Schultz
	Pamela Lilly
615	Brittani Merrick
	Christopher Moody
	Jacqueline Merrick
	Jarred Merrick
	John Smith
	Melba Merrick
617	Mary Meiners
	Peter Zilliox
	Sarah Zilliox

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

SE 2ND ST 2020

11	WISE WEALTH
	WISE WEALTH LLC
101	Drayton Riley
	DRAYTON RILEY-STATE FARM INS
111	Diana Greninger
	GRACE JEWELRY LOAN LTD
	Ronald Greninger
200	Hugh Ryan
	HUGH RYAN LAW
202	ERICKSON LISA M
	SENGBUSH MEGAN
204	FARMERS INSURANCE
	FARMERS INSURANCE-JASON LNGSTN
	Randall Weeda

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SE DOUGLAS ST 2020

114	GENESIS PRESCHOOL
	OLIVE TREE CHILDREN'S CTR
	SUMMIT CHURCH-DOWNTOWN CAMPUS
200	EDWARD JONES
	PENDO MANAGEMENT GROUP
207	AMBULANCE SERVICE
	LEE'S SUMMIT FIRE DEPT
209	ASK CATHY MARKETING GROUP LLC
213	RAYS BEAUTY BOUTIQUE
215	PARKER SWEARNGIN LLP
217	HIGH & TIGHT INC
	JOHN'S BARBER SHOP
219	LEE'S SUMMIT TRIBUNE LLC
220	220 DANCE CENTRAL
	Cynthia Monaco
	HEART OF AMERICA DANCE CTR
225	ONE STOP DECORATING CTR
226	INTERNET DESIGN & PUBLISHING
	PHYSICAL THERAPY ASSOC
	VISION CARE SVC INC
	WORKERS COMPENSATION CONSLNTS
229	7211 CREATIVE LLC
	BEANS OF MOTIVATION LLC
	JEFFREY CAREY-BKTP LAW FIRM
	LAW OFFICES-JONATHAN R WHTHD
	LEGAL CENTER FOR NEW FAMILIES
	METHOD HEALTHCARE LLC
	OAK ROAD WEALTH MANAGEMENT
	QUICKSTART DOCS
301	CONSTRUCTION & ABATEMENT SVC
	LLYWELYN'S PUB
	REAL LAW LLC
	T-DON ENTERPRISES LLC
305	HONEYMOON-HIDEAWAYS
	TRAVEL SOURCE
307	POPPY'S ICE CREAM & COFFEE HSE
308	STANLEY ASPEN ROOM
	STANLEY HISTORIC EVENT SPACE
309	SPORT SCENE
311	XPRESSIONS BOUTIQUE BY COLOR
313	CHAMPU HAIR DESIGN
	LUXXE APPAREL
319	BRUCE HOLIMAN-STATE FARM INS

Target Street	Cross Street	Source
-	✓	Cole Information

NE GREEN ST 2017

3	STOVER, PAUL J
4	SOLE, CARLA
5	WRIGHT, MIKE A
6	STOVALL, KEVIN B
7	KEMP, DAVID W
8	COLEMAN, MICHAEL G
101	BARNES, MARY B
103	GARRISON, JON
106	HOLM, STEVEN J
200	SHOEMAKER, CONNIE E
201	SMART, BERNICE
203	GRAY, ELEANOR A
204	CAW, AARON
300	CUMMINS, ARLIE S
301	OLDHAM, TED
302	HATT, CHRISTOPHER G
305	BATZHOLD, SHAEFE
306	SIMS, JASON S
307	LESLIE, LARRY G
309	SHRULL, PATRICIA J
312	EVERMAN, SHIRLEY R
313	POINTER, MATT G
315	WILCOX, LINSEY
406	HOSACK, CHESTER M
	STEWART, JACKIE
408	ELBERT, MICHAEL J
501	TERRELL, RYAN D
504	CALLAWAY, DAVID E
507	HOLMAN, JAIME L
508	HATFIELD, RICHARD L
509	PRICE, KINYONE
511	KURZ, ERIC L
513	BAILEY, JASON A
600	FREEMAN, JERRY L
602	KRZYWICKI, HAZEL M
603	TINKHAM, STEVE R
604	DAVIS, ALAN J
605	WILLIAMS, FRANCIS J
606	CRAWFORD, CHARLIE A
607	GERINGER, MICHELLE L

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2017

107	EVERT, GARY
	SIMPSON, BRIAN W
	STANDLEA, DOUGLAS
	TURNER, JACKIE D
111	VANMETER, ROBERT R
207	FEEBACK, CHERYL L
209	HAYES, NICOLE
211	ASH, JOHN E
	MORGAN, CASSANDRA
212	AVID AIR
214	PRECISION WINDOWS & DOORS
215	HADDOX, GLENDON R
216	INTERSTATE STUDIO
218	MAGGARD, AUDREY
219	SLINKER, RODNEY D
221	PORTER, WES
300	PAULSEN, MATT M
301	ANTONINI, LISA J
	BARBER, CHRYSTAL L
302	MCLAUGHLIN, DEENA
304	KEENEY, LOUIS
305	ALEXANDER, MERSADI
	SHULSE, RODNEY
307	SULLINS, MERLIN E
308	SAATHOFF, CATHY J
309	NIEMANN, SARAH
310	HEETER, WILLIAM L
401	HOLDER, KALYN
405	BROCK, BOB E
407	HERNANDEZ, ISMAEL
	J ANTHONY CONTRACTING
409	NOLL, BRADLEY
503	ROE, SHEILA D
505	IGOU, AMANDA
510	LAW OFFICE OF LORRI L WILBEE KOBE LL
	VANBERKOM, JILL
600	HOSMANN, TIMOTHY D
601	HOVERMALE, SHERRY J
602	GASS, DAVID J
605	NELSON, MAX E
606	MARKER, NATHANAEL S
607	RIDGE, GENE G
608	MASON, MAX W
609	CLARK, KAMILAH S
610	ELLEDGE, JASON R
611	MADDEN, DARREN K
612	ANDERSON, CYNTHIA D
613	ANDERSON, VERNON E
614	SOLTOW, DAVINA
615	MERRICK, JARRED M

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2017 (Cont'd)

617 ZILLIOX, PETER J

Target Street	Cross Street	Source
-	✓	Cole Information

SE 2ND ST 2017

11	MCDONALDS
101	BINDER GRAPHICS INC
	STATE FARM INSURANCE
111	GRACE JEWELRY LOAN LTD
204	RANDALL D WEEDA INSURANCE
	RANDY WEEDA INSURANCE AGENCY
208	COLOR EXPRESSIONS
300	KALLSNICK SAM DDS
	TRUMAN MEDICAL CENTERS

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 2017

114	GENESIS PRESCHOOL
	OLIVE TREE CHILDRENS CENTER
	THE SUMMITLEES SUMMIT UNITED METHO
200	BILL DICKEY CERTIFIED PUBLIC ACCOUNT
	DANL K COOK CPA
	FLACK & STONE DDS PC
	FRANK A HALBHUBER CERTIFIED PUBLIC A
	HALBHUBER & COOK PC
	MARK E FLACK DDS
	RANDALL E STONE DDS
207	CITY OF LEES SUMMIT
209	DPSCIENCES
210	GOOD LIFE YOGA & TEA
213	RAYS BEAUTY BOUTIQUE
217	JOHNS BARBER SHOP
220	220 DANCE CENTRAL
	HEART OF AMERICA DANCE CENTRE
225	ONE STOP DECORATING
	ONE STOP DECORATING CENTER
301	DAV THRIFTLEES SUMMIT
305	HONEYMOONHIDEAWAYS
	THE TRAVEL SOURCE
307	POPPYS ICE CREAM & COFFEE HOUSE
308	THE STANLEY HISTORIC EVENT SPACE
309	THE SPORT SCENE
311	XPRESSIONS BOUTIQUE
313	LUXXE APPAREL LLC
319	BAUGHER, BRENT A
	BRACKEN, NICHOLAS A
	BRANDON, STEVE P
	CAMPBELL, JASON M
	DOSTER, JANELL R
	DUGAN, CARL A
	DUNN, DARLENE A
	FRISTOE, DAREN S
	HENLEY, MARCUS A
	JOHNSON, CYNTHIA R
	JONES, ALAINA
	LEWIS, JENNIFER K
	MURRAY, JOSEPH
	NOWELL, ASHLEY
320	FREELAND PHOTOGRAPHY
321	AAMCO TRANSMISSION & TOTAL CAR CARE
	AAMCO TRANSMISSIONS
	AMTRAN INC
322	G & T ELECTRONICS
	LEES SUMMIT FIREFIGHTERS ASSOC
323	COOPERS AUTO SERVICE
326	CONSOLIDATED
329	VFW VETERANS OF FOREIGN WARS

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 2017 (Cont'd)

330	RUSSELL L HONLEY CPA
332	ALIERI ATTORNEY DANA AT LAW
	ALTIERI GILMORE LLP ATTORNEYS
333	FILLING STATION BBQ
400	DAIRY QUEEN
401	HENRYS ANTIQUES COLLECTIBLES & TEA
	HSH ESTATE SALES INC

Target Street	Cross Street	Source
-	✓	Cole Information

NE GREEN ST 2014

3	STOVER, PAUL J
4	VIKER, MERREDETH L
5	WRIGHT, MIKE A
6	STOVALL, KEVIN B
7	OCCUPANT UNKNOWN,
8	COLEMAN, MICHAEL G
9	ALVAREZ, MARIO C
101	BARNES, MARY B
103	LINCOLN, IRENE
106	HOLM, J
200	SHOEMAKER, CONNIE E
201	OCCUPANT UNKNOWN,
203	NIMS, ELEANOR
204	OCCUPANT UNKNOWN,
207	OCCUPANT UNKNOWN,
300	GOODALE, JOURDAN K
301	OLDHAM, TED
302	HATT, CHRISTOPHER G
305	SCHAEFE, SUSAN B
306	SIMS, JASON S
307	GILLILAND, JOSH K
308	OCCUPANT UNKNOWN,
309	CARTER, RICHARD A
311	RADER, CYNDA
312	OCCUPANT UNKNOWN,
313	POINTER, MATT G
315	WATKINS, JOHN M
406	WHITAKER, SARAH
408	PRIER, JONATHAN
501	GUNN, HARLENE M
504	CALLAWAY, DAVID E
506	MILLER, MARC F
507	CARTER, JESSIE L
508	COX, JERRY C
509	KNEELAND, JEREMIAH D
511	OCCUPANT UNKNOWN,
513	HAHN, CHAD E
600	FREEMAN, JERRY L
602	KRZYWICKI, HAZEL M
604	DAVIS, ALAN J
605	WILLIAMS, FRANCIS J
606	VIRDEN, NORMA N
607	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2014

107	ADAMS, PATRICIA B
	EVERT, GARY
	MCDANIEL, JOHN A
	TURNER, JACKIE D
109	MASON, KIMMIE J
111	OCCUPANT UNKNOWN,
123	CARTER, J
203	CAROLLO, JOSEPH M
	FIELD, SHEILA
205	THORNTON, JENNIFER L
207	FEBBACK, CHERYL L
209	BLATTNER, SKYLER
	MILLER, RYAN
211	LICHT, JOHNA
	OCCUPANT UNKNOWN,
212	AVID AIR
	TRAFFIC GRAPHIX
	WE CONNECT ELECTRIC
214	PRECISION WINDOWS & DOORS
215	HADDOX, GLENDON R
218	MAROUSEK, VIRGINA R
	NUNEZ, TED A
	OCCUPANT UNKNOWN,
219	SLINKER, RODNEY D
221	OCCUPANT UNKNOWN,
300	PAULSEN, MATT M
301	BARBER, CHRYSTAL L
	DETHLUXAY, LINDA
302	WITHROW, MICHAEL P
304	OCCUPANT UNKNOWN,
305	SHULSE, RODNEY
306	KIMBERLIN, EVA
307	OCCUPANT UNKNOWN,
308	OCCUPANT UNKNOWN,
401	BRIZENDINE, MARK
405	BROCK, BOB E
407	HERNANDEZ, ISMAEL
	J ANTHONY CONTRACTING
409	NOLL, BRADLEY
503	HULL, JOELLEN E
	SPISAK, HEATHER
	SPISAK-TOMICH, HEATHER
	TOMICH, HEATHER S
505	HULL, MATTHEW G
510	WILLEY, KATHY E
511	AROZARENA, MICHAEL J
600	HECK, DARREN B
601	HOVERMALE, SHERRY J
602	FINNELL, CHARLES M
605	NELSON, MAX E

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2014 (Cont'd)

606	STOLZ, HEN
607	PREWITT, BRYAN L
609	CLARK, KAMILAH S
610	ELLEDGE, JASON R
611	OCCUPANT UNKNOWN,
612	ANDERSON, J C
613	ANDERSON, VERNON E
614	LILLY, PAMELA
615	MERRICK, JARRED M
616	TURNER, JOSHUA L
617	ZILLIOX, PETER J

Target Street	Cross Street	Source
-	✓	Cole Information

SE 2ND ST 2014

1	ELLCEY, JOHN
11	PBI INDUSTRIES INC
101	BINDER GRAPHICS INC
	DRAYTON RILEY STATE FARM INSURANCE
	RILEY DRAYTON W STATE FARM INSURANCE
	STATE FARM INSURANCE
111	GRACE JEWELRY LOAN LTD
200	RYAN HUGH H ATTY
202	DANIEL MILLER LLC
	JURGESON RONALD L ATTORNEY
204	RANDALL D WEEDA INSURANCE
206	TURN THE PAGE
300	CARESWELL HOLLI WEAVER DDS
	KALLSNICK & CARESWELL DDS PC
	KALLSNICK SAM DDS
	LAKEWOOD COUNSELING SERVICE
	TRUMAN MEDICAL CENTERS
	WEAVER HOLLI DDS

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 2014

114	GENESIS PRESCHOOL
	OLIVE TREE CHILDRENS CENTER
	THE SUMMIT LEES SUMMIT UNITED METHO
200	COOK DANL K CPA
	DICKEY BILL CPA
	FLACK & STONE DDS PC
	FRANKLIN JUDY M CPA
	HALBHUBER & COOK PC CPA
	HALBHUBER FRANK A CPA
207	CITY OF LEES SUMMIT
209	DPSCIENCES
210	BOUT THYME DELI
213	RAYS BEAUTY BOUTIQUE
215	PARKER SWEARNGIN
217	JOHNS BARBER SHOP
219	LEES SUMMIT TRIBUNE PUBLISHING
220	220 DANCE CENTRAL
	HEART OF AMERICA DANCE CENTRE
225	ONE STOP DECORATING
226	CUSHING LAW OFFICE PC
	DOWNTOWN LEES SUMMIT MAIN ST INC
	OXIARMOR
229	CAREY LAW FIRM L L C CPA
	LAWSON LESLIE
301	DAV THRIFT LEES SUMMIT
305	HONEYMOON HIDEAWAYS
	TRAVEL SOURCE THE
307	POPPYS ICE CREAM & COFFEE HOUSE
309	SPORT SCENE THE
311	XPRESSIONS BOUTIQUE
313	CHAMPU HAIR DESIGN
316	LEES SUMMIT CLEANERS
319	BRANDON, STEVE P
	LINCOLN, CATHY
	PADDOCK, FREDERICK R
320	FREELAND PHOTOGRAPHY
321	DEREKS AUTOMOTIVE SERVICE
322	G & T ELECTRONICS
	LEES SUMMIT FIREFIGHTERS ASSOC
323	COOPER AUTO SERVICE
326	AMERICAN FAMILY INSURANCE
	CONSOLIDATED
	ROGERS STU
329	VFW VETERANS OF FOREIGN WARS
330	HONLEY RUSSELL L CPA
332	ALTIERI GILMORE LLP
	DANA ALIERI ATTORNEY AT LAW
333	FILLING STATION BBQ
400	DAIRY QUEEN
401	HSH ESTATE SALES INC

Target Street	Cross Street	Source
-	✓	Cole Information

NE GREEN ST 2010

3	OCCUPANT UNKNOWN,
4	LESLIE, MERREDETH
6	STOVALL PAINTING
	STOVALL, KEVIN B
8	COLEMAN, MICHAEL G
9	SMARR, RYAN N
101	BARNES, MARY B
102	METRO REHAB BILLING
	SERC METRO REHAB
	SERC PHYSICAL & OCCUPATIONAL
103	ERRICKSON, STEPHANIE M
106	OCCUPANT UNKNOWN,
200	SHOEMAKER, CONNIE E
201	SMART, CARL J
203	NIMS, ELEANOR
204	OCCUPANT UNKNOWN,
300	MILLER, JOANNE M
301	OLDHAM, STEVE K
302	HATT, CHRISTOPHER G
305	SCHAEFER, SUSAN B
306	HOTCHKISS, BREE A
307	GILLILAND, JOSHUA K
308	OCCUPANT UNKNOWN,
309	CARTER, RICHARD A
310	JONES, BRIAN
312	EVERMAN, SHIRLEY R
313	POINTER, MATT
315	OCCUPANT UNKNOWN,
406	BALINTH, NOEMI B
	CAIN, F
	CALVIN, SKYLAR J
408	ELBERT, MICHAEL
501	GUNN, HARLENE M
504	CALLAWAY, DAVID E
	HALTON, HENRY J
	MCGEE, RON
506	OCCUPANT UNKNOWN,
507	LAMB, JEROME P
508	HATFIELD, RICHARD L
509	OCCUPANT UNKNOWN,
511	MULU, HIGHLAND E
513	FOLSOM, MICHAEL
600	REFF, JAMES D
602	KRZYWICKI, HAZEL M
604	DAVIS, ALAN J
605	WILLIAMS, ROBERT L
606	VIRDEN, BILL L
607	CLINE, CYNTHIA L

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2010

107	MCDANIEL, JOHN A
	OCCUPANT UNKNOWN,
109	MASON, FELISHA A
111	VANMETER, ROBERT R
203	BRYAN, DAVID
	ROGERS, J
205	THORNTON, JAMES A
207	FEEBACK, CHERYL L
209	BLATTNER, SKYLER
	HOORMANN, CATHERINE L
	OCCUPANT UNKNOWN,
211	ROSS, ROBERT K
212	AVIDAIR
	CLEANING AUTHORITY
	CLH CONSTRUCTION LLC
	MISSOURI TURBINE MAULE
215	HADDOX, GLENDON R
216	ENVIRONMENTAL SCIENCE & CLAIM
	PSA ENVIRONMENTAL
218	NUNEZ, TED A
	PULSE, KATHRYN A
219	SLINKER, RODNEY D
221	OCCUPANT UNKNOWN,
300	PAULSEN, MATT M
301	BANK OF AMERICA HOME LOANS
	BARNES, MATTHEW
	GILMER, CASEY
304	OCCUPANT UNKNOWN,
305	DRISKILL, CRYSTLE
	EILAND, DWAYNE A
306	OCCUPANT UNKNOWN,
307	OCCUPANT UNKNOWN,
308	OCCUPANT UNKNOWN,
309	DRIGGERS, SHELLEY L
310	KIRBY, BETS T
401	YORK, JOHN A
405	BROCK, BOB E
407	FORD, CHARLES J
409	DELACOUR, JERAD W
503	NOVAK, ERIC B
505	HULL, HERBERT
510	FOSTER, SHEREE
511	FREEMAN, ADRIAN
600	HECK, DARREN B
601	HOVERMALE, SHERRY J
605	NELSON, MAX E
606	STOLZ, HENRY H
607	RIDGE, GENE G
608	NEWSOM, DAVID L
609	MURRAY, RAMONA

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2010 (Cont'd)

610 ELLEDGE, JASON R
611 MADDEN, DARREN K
612 ANDERSON, J C
613 ANDERSON, VERNON E
614 EVANS, LORA A
615 MERRICK, MELBA J
616 TURNER, JOSHUA
617 ZILLIOX, PETER J

Target Street	Cross Street	Source
-	✓	Cole Information

SE 2ND ST 2010

1	BYNUM, MICHELLE
11	PBI INDUSTRIES INC
101	BINDER GRAPHICS INC
	STATE FARM INSURANCE
111	GRACE JEWELRY LOAN LTD
115	LEES SUMMIT CITY WATER DEPT
	POLICE DEPTCRIMINAL INVSTGTNS
200	HUGH H RYAN LAW OFFICE
202	UNITED MORTGAGE CO
204	WEEDA INSURANCE
206	CRANTZ DEVELOPMENT LLC
208	MASTERS
210	MEDICINE SHOPPE
300	KALLSNICK & CARESWELL
	LAKEWOOD COUNSELING SVC

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 2010

114	CHILDRENS DAY OUT
	GENESIS PRESCHOOL
120	GAONA, ROBERT E
200	FLACK & STONE
	FLACK & STONE PC
	HALBHUBER & COOK PC
	TILLEMA, BRIAN A
201	BOND, KELLEY J
207	LEES SUMMIT FIRE DEPT
209	DATA PROCESSING SCIENCES
210	ALL ABOUT HAIR & MORE INC
213	RAYS
	RAYS BEAUTY SHOP
217	JOHNS BARBER SHOP
220	GARYS BALLROOM & WESTERN DNC
	HEART OF AMERICA DANCE CTR
224	ALL ABLOOM
225	LEES SUMMIT TRIBUNE INC
226	AGMP
	DOWNTOWN MAIN STREET INC
	PARKER FINANCIAL PLANNERS
	PHYSICAL THERAPY ASSOC
	VISION CARE SVC INC
	WORKERS COMPENSATION CNSLTNTS
227	SEI BELLA SALON
229	CAREY LAW FIRM LLC
301	DESSELLE LAW OFFICE PC
	HARTLEYS
	MAXWELLS
305	W T BEARS & CO
307	DOCS SORBET & ICE CREAM CO
	POPPYS ICE CREAM & COFFE HSE
309	SPORT SCENE
316	LEES SUMMIT CLEANERS
	METROPOLITAN VALET CLEANERS
319	BACKUES, JUSTIN J
	ERPELDING, JOHN F
	RAY, KATHLEEN
320	BACK BEAT MUSIC
322	LEES SUMMIT FIRE FIGHTERS
323	COOPERS AUTO SVC
326	AMERICAN FAMILY INSURANCE
	CONSOLIDATED SERVICES INC
329	VETERANS OF FOREIGN WARS
	VFW POST 5789
330	FIELDS, GERALD G
	HONLEY RUSSELL L CPA
	HONLEY, RUSSELL
	MIDDLETON RESIDENTIAL DESIGN
	RAINBOW WATER PROOFING

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 2010 (Cont'd)

332	HORN PRINTING & OFFICE SUPPLY
333	FILLING STATION BBQ
400	DAIRY QUEEN
401	HENRYS ANTIQUESCOLLECTIBLES

Target Street	Cross Street	Source
-	✓	Cole Information

NE GREEN ST 2005

3	JAMES, CLIVE G
4	KISSEE, CARLA S
5	GUHR, DAVE E
6	STOVALL, KEVIN B
7	MCCOMMON, MELONY A
8	COLEMAN, MICHAEL G
9	PROFFITT, LINDSEY
101	BARNES, DOUGLAS D
103	HARDING, CRAIG A
106	CISNEROS, OSWALDO E
115	SMART, SUE S
200	SHOEMAKER, CONNIE E
201	SMART, CARL J
203	NIMS, ELEANOR
204	LEVEN, JAMES D
207	KOPPANG, JAMES
300	GOODALE, JOURDAN K
301	OLDHAM, STEVE K
302	HATT, CHRISTOPHER G
305	BATZOLD, WILLIAM T
306	HEFFERNON, JAMES K
307	OBERWEATHER, MATHEW S
308	PEMBERTON, ALVIN L
309	OCCUPANT UNKNOWN,
312	EVERMAN, SHIRLEY R
313	SHOUT, JUSTIN
315	WRIGHT, STEVEN L
406	FLOWERS, SHAWN D
	JONES, ROBERT
	OCCUPANT UNKNOWN,
408	WELDON, COLLEEN
501	MERICLE, CHERIE K
504	CAMPBELL, LL L
	HALTON, HENRY J
506	WATKINS, ANDREW J
507	HOOTEN, BLAKE
508	HATFIELD, RICHARD L
513	MURPHY, MICHAEL T
600	FURNEY, DONALD E
602	KRZYWICKI, HAZEL M
603	CORN, CHRISTOPHER L
604	DAVIS, ALAN J
605	WILLIAMS, ROBERT L
606	VIRDEN, BILL L
607	REFF, JAMES

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2005

107	HANS, FRANK F
	OCCUPANT UNKNOWN,
108	JACOBSON, JEFFERY
109	OCCUPANT UNKNOWN,
111	MULLINS, TETANYA
203	CAROLLO, JOSEPH M
	HARRIS, STEPHEN
	LAKE, ELLEN
	MCCARTY, MICHELE P
205	THORNTON, JAMES D
207	FEEBACK, CHERYL L
209	OCCUPANT UNKNOWN,
211	CORBIN, THURMAN R
212	AVIDAIR
	B & L PLUMBING SERVICE INC
	DONALDSON MECHANICAL
	MISSOURI TURBINE MAULE
215	HADDOX, GLENDON R
216	PSA ENVIRONMENTAL
219	SLINKER, RODNEY D
221	HOCKER, AARON L
300	HAMILTON, CRISTI R
301	FORD, RIC E
302	WITHROW, MICHAEL P
304	KEEHLER, MICHAEL
305	DRISKILL, CRYSTLE
	SIMMONS, STEVEN M
	VANDEVELDE, MICHAEL S
306	LEA, LANNY E
307	OCCUPANT UNKNOWN,
308	JOLLIFF, DONALD E
310	KIRBY, BETS T
401	YORK, JOHN A
405	BROCK, BOB E
407	SEIGER, TRACEY M
409	BEHRAVAN, FARZIN
503	NOVAK, ERIC B
505	HULL, KAREN
510	OCCUPANT UNKNOWN,
511	MORTON, TERESA D
600	TEETOR, SCOTT
601	HOVERMALE, SHERRY J
605	NELSON, MAX E
606	STOLZ, HENRY G
607	RIDGE, GENE G
608	NEWSOM, DAVID L
609	PORTERFIELD, JERRY L
610	ELLEDGE, JASON R
611	MARX, R
614	SOLTO, LUCAS

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2005 (Cont'd)

615 MERRICK, MELBA J
616 LUSTER, RASHID
617 ZILLIOUX, PETER J

Target Street	Cross Street	Source
-	✓	Cole Information

SE 2ND ST 2005

11	BROWN & BROWN REALTY
	HOMETOWN HEARING & AUDIOLOGY
	PBI INDUSTRIES INC
101	BINDER GRAPHICS INC
109	GRENINGER, RONALD N
115	LEES SUMMIT CITY OFDEPT
	LEES SUMMIT WATER UTILITIES
200	RYAN HUGH H
204	WEEDA INSURANCE AGENCY INC
206	GARY W MCEWEN MD
	LEES SUMMIT DERMATOLOGY ASSOCIATES
	MCEWEN, GARY W
	SLATER INSURANCE AGENCY
208	MASTERS
210	THE MEDICINE SHOPPE PHARMACY
300	HOLLI W CARESWELL SAM KALLSNICK DDS
	KALLSNICK, SAM
	LEES SUMMIT HOSPITAL
	PARKWAY FAMILY CARE
	ST LUKES MEDICAL GROUP

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 2005

114	CHILDRENS DAY OUT
	GENESIS PRESCHOOL
	OLIVE TREE CHILDRENS CENTER
120	GAONA, ROBERT E
200	BIGGS PEST CONTROL INC
	CHINNERY EVANS & BLACKWELL
	CHRISTIANWEAR COM INC
	DR FLACK & STONE
	FLACK MARK E DDS
	HALBHUBER & COOK PC
	MCFARLAND DANA M
	OUTDOOR INNOVATIONS & DESIGN LLC
	PEARCE ENTERPRISE INC
	TILLEMA BRIAN LAW OFFICE
207	CITY LEES SUMMIT FIRE DEPARTMENT
209	DATA PROCESSING SCIENCES
210	BIGGS PEST CONTROL INC
215	ARTISTIK EXPRESSIONS
217	JOHNS BARBER SHOP
220	AMERICAN HERITAGE ANTIQUE MLL
	HEART OF AMERICA DANCE CENTER
224	SUMMIT MORTGAGE
225	CASTLE ROCK BUILDING CORP
	DARRON PROPERTIES INC
	LEES SUMMIT POST TRIBUNE
	REALTY NET HEARTLAND G
	SECURITY FIRST LOAN & INVESTMENT
226	VISION CARE SERVICE INC
299	USB MORTGAGE LLC
318	SMART CLEANING
320	GUENEVERES
323	COOPERS ENTERPRISES INC
324	OCCUPANT UNKNOWN,
326	CONSOLIDATED SERVICES INC
	ROGERS, STU
	STU ROGERS
329	VETERANS FGN WARS POST 5789
330	FIELDS, GERALD G
	GRAPHIC SERVICES CO
	HONLEY, RUSSELL
332	HORN PRINTING & OFFICE SUPPLY
	KINGSTON ENVIRONMENTAL INC
400	MARTIN PETERSON INC

Target Street	Cross Street	Source
-	✓	Cole Information

NE GREEN ST 2000

3	PINKERTON, J C
4	TYER, THOMAS B
5	SWEARNGIN, JOHN E
6	STOVALL PAINTING
7	VANDAVEER, JASON
8	COLEMAN, MICHAEL G
9	JENSEN, DANIEL
101	BARNES, DOUGLAS D
103	HARDING, CRAIG
106	SOLANO, ISABEL C
115	SMART, ELNORA S
200	SHOEMAKER, CHRIS
201	SMART, CARL J
203	NIMS, ELEANOR
207	FROMHOLD, ERIKA
300	BLANKS, GEORGE W
305	LONG, JANA
306	DOUGLAS, PAUL
310	LONG, TONY
315	WRIGHT, STEVE
406	FLOWERS, S D
408	ROUCHKA, BRET
500	DEKEROBERT, MICHEL J
501	MERICLE, CHERIE
504	ADAMS, PHILLIP
	CALIENDO, RAY
600	FURNEY, DONALD
602	KRZYWICKI, HAZEL M
603	CRANE, BRIAN
604	COX, A J
605	WILLIAMS, ROBERT L
606	VIRDEN, BILL
607	ZEHR, CYNTHIA A

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 2000

107	FANSLER, ROBERT
	HOFFMAN, JEREMY
109	RUTH, PAT O
111	ADAMS, C A
207	FEEBACK, CHERYL L
209	MARSH, BRANDI
	ZORN, JASON
210	ENVIRONMENTAL PRODUCTS INCORPORATED
211	CORBIN, THURMAN
215	HADDOX, GLENDON
216	JEBB BRUSH COMPANY
218	SLINKER, RODNEY D
219	SLINKER, RODNEY
221	DOUGLAS, CLAUDE
300	HAMILTON, CRISTI R
302	WILLIAMSON, KAREN D
304	SMITH, RONALD
305	HOLLEY, TODD A
	MCCAULEY, LANCE R
306	COLLIER, ROBERT W
307	RICHERT, TERRI
308	PARKER, E S
309	JOHNS, D
310	SANDERS, ANNETTE C
405	BROCK, BOBBY E
407	REBISH, V B
409	FREYMAN, WENDY
511	AROZARENA, MIKE
600	LYNCH, CHRIS
601	GRAHAM, TAMARA L
602	FINNELL, CHARLES M
605	NELSON, KELLY
606	STOLZ, HENRY
610	COX, KEVIN
612	BAKER, BRETT K
613	ANDERSON, VERNON E
614	BROWN, V L
615	MERRICK, MELBA J
617	MEINERS, SARAH A
	ZILLIOX, PETER

Target Street	Cross Street	Source
-	✓	Cole Information

SE 2ND ST 2000

6	BRUMBLE, N
11	BROWN & BROWN REALTY
	LEES SUMMIT HEARING AID CENTER
	PBI INDUSTRIES INCORPORATED
19	BARTHOLOW, RENEE V
101	BINDER GRAPHICS INCORPORATED
111	RILEY DRAYTON W INS
	STATE FARM INSURANCE COMPANIES MISSOURI
115	LEE'S SUMMIT POLICE DEPARTMENT
200	RYAN HUGH H ATTORNEY
202	NICHOLSON DORAN L DC
204	WEEDA RAY INS AGENCY
206	EUDALY LON S OD
	EYE CARE INCORPORATED KANSAS CITY
300	BLACKWELL DAN L LEES SUMMIT OFFICE
	BRADY TERESA MD
	BROWER HAROLD A ILL DDS
	BROWER TODD D DDS
	JANSSEN RON DO
	LEES SUMMIT HOSPITAL KANSAS CITY
	LUTHER WILLIAM E JR DDS
	PARKWAY FAMILY CARE CENTER
	SABIH LOU MD
	SIMANOVSKY MICHAEL MD
	WEAVER HOLLI DDS
	WEAVER, H

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 2000

114	LEES SUMMIT UNITED METHODIST CHURCH RAINBOW LAND
	RAINBOW LAND
200	BLACKWELL NANCY E ATTORNEY
	HALBHUBER FRANK A CPA
	STONE RANDALL E DDS
207	LEE'S SUMMIT FIRE DEPARTMENT
220	SARATOGA GAMES & HOBBIES
225	BALBOA MORTGAGE LOANS REAL ESTATE LOANS
	HAMILTON STERRETT & DOOLEY
	REALTY NET DARRON RESIDENTIAL REAL ESTATE
226	U I S
	VISION CARE SERVICE INCORPORATED
	WORKERS COMPENSATION CONSULTANTS INCORPORATED
300	ERPS, DAVID L
	SIGNATURE INCORPORATED
316	GANO, MERRITT W
	GIBSON, DAWN
	LEES SUMMIT CLEANERS KANSAS CITY
320	BENTON EXCAVATING & GRADING INCORPORATED
326	REWARDS PLUS OF AMERICA
	ROGERS STU INS
329	VETERANS OF FOREIGN WARS POST 5789 LOUNGE
332	HORN PRINTING & OFFICE SUPPLY

Target Street	Cross Street	Source
-	✓	Cole Information

NE GREEN ST 1995

3	OCCUPANT UNKNOWNN
4	ADKINS, CHRISTY L
5	SWEARNGIN, JOHN E
6	OCCUPANT UNKNOWNN
	STOVALL PAINTING
7	CAMPBELL, ROBERT B
8	OCCUPANT UNKNOWNN
9	OCCUPANT UNKNOWNN
101	PATINA
102	ACCUGRAPHICS PLUS
313	CORBETTS SIDING & GUTTERING
507	WILLIMAR SMOKE HOUSE

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 1995

104	MURPHY, DONALD S
	POTTS, WADE
106	LEFTWICH, JAY
108	PATTERSON, ROBERT E
109	EVINGER, MORGAN
110	OCCUPANT UNKNOWNN
111	BOATMAN, MARK
112	ISMERT, ANDRE
114	MESKILL, MICHAEL L
203	PRATT, JEREMY
205	MCCORMICK, SHERRY
207	FEEBACK, CHERYL L
209	ROOS, JAY A
210	UCHTMANN, D H
211	PHILLIPS, SCOTT R
	POMMER, B
	STUART, G S
212	COMMUNICATION EQUIPMENT SPECS
	FGI GLASS CONTRACTING INC
	REED, LARRY
215	HADDOX, GLENDON
216	BROKK DEMO SERVICE
	JEBB BRUSH CO
218	GAUNT, ANTHONY
	STONE, MARK
219	SLINKER, RODNEY
221	DOUGLAS, CLAUDE
300	GREEK, MICHELL
301	BORCHARDT, C M
	MITCHELL, JAMES L
302	WEBER, JEFF
304	GARDNER, JOYCE
305	JOHNS, TROY
	MCBRIDE, RAYMOND
306	COLLIER, ROBERT W
307	KREBS, NINA
309	OCCUPANT UNKNOWNN
310	VANVLIET, BOB
401	OCCUPANT UNKNOWNN
405	KENNEY, MARY M
407	MILES, JACK
409	EISKINA, WILLIAM J
420	HOBBS, JOHN M
503	HULL, LESTER
505	OCCUPANT UNKNOWNN
510	WILLEY, SAM
511	OCCUPANT UNKNOWNN
600	MCCANN, HUGH
601	OCCUPANT UNKNOWNN
602	BRUEGGER, FRANK L

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 1995 (Cont'd)

605	OCCUPANT UNKNOWNN
606	STOLZ, HENRY G
607	RIDGE, GENE O
608	POSTEL, DENNIS E
609	CLOYED, ROBERT E
610	LEWIS, BILL
611	REAMS, DARIAN
612	MASON, CYNTHIA
613	OCCUPANT UNKNOWNN
614	THURMAN, JOHN T
615	OCCUPANT UNKNOWNN
616	WHEATLEY, HARRY F
617	DILLEY, TERESA
	MEINERS, SARAH A
	SUAREZ, J

Target Street	Cross Street	Source
-	✓	Cole Information

SE 2ND ST 1995

11	BOB COLVILLES HEARING CTR
	BROWN&BROWN REALTY
	LEES SUMMIT HEARING AID CTR
101	BINDER GRAPHICS INC
111	STATE FARM INSURANCE
115	LEES SMMT PLC DPTS
	LEES SUMMIT MUNICIPAL COURT
	LEES SUMMIT POLICE DEPT
	POLICE DEPT CRIMINAL INVSTGTNS
	POLICE DEPT DETENTION FACILITY
	POLICE DEPT RECORDS
202	GRAEFF & RYAN
	MIDWEST CHIROPRACTIC SVC
204	FARMERS INSURANCE GROUP
	RAY WEEDA & ASSOC
206	EU DALY & EU DALY OPTOMETRISTS
	INTERNATIONAL MORTAGAGE CORP
	SILVER DOLLAR MORTGAGE
208	MEDICINE SHOPPE PHARMACY
	STRAWBERRY PATCH
300	BROWER DENTAL GROUP
	COLLEEN WALZ STARK MD
	DAN L BLACKWELL DDS
	DARRYL K NELSON MD
	EDWIN T KRAEMER MD
	HAROLD A BROWER III DDS
	LEES SUMMIT FAMILY CARE CTR
	MARY B DURYEA MD
	ORTHOPEDIC & SPORTS REHAB CTR
	TODD E FRISTO MD
	WILLIAM E LUTHER JR DDS

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 1995

114	GENESIS PRESCHOOL
200	BRIAN TILLEMA LAW OFFICE
	CARL CHINNERY & ASSOC
	DENNIS FUHRMAN
	DICKEY FRANKLIN HALBHUBER COOK
	ELIZABETH U CARLYLE
	KAREN DUFF
	MARK E FLACK DDS
	NANCY E BLACKWELL
	RANDALL E STONE DDS
	WILLIS HILL & MILLER INSURANCE
207	CASS COUNTY FIRE DEPT
	CITY FIRE COMMNCTN
	CITY FIRE SUPPORT
	FIRE DEPARTMENT TRAINING
	FIRE DEPT CHIEF
	FIRE PREVENTION
	LEES SUMMIT FIRE DEPT
210	AMERICAN FAMILY INSURANCE
	BRIAN WARD
	CLIPPERS STATION
215	CSI OF THE MIDWEST
	MAURER ASPHALT PAVING
216	E & Q HEATING & COOLING INC
220	AMERICAN HERITAGE ANTIQUE MALL
	ANTIQUES UNLIMITED
224	CONNECTIVITY COMPUTER
225	BALBOA MORTGAGE
	DARRON PROPERTIES
	REALTY NET DARRON
226	AGMP
	PATRICIA HAGENAH
	RISK CONTROL SPECIALISTS
	S IRS CORP
	SUMMIT SPECIALTY PRODUCTS
300	CAPITAL PLUS FINANCIAL SVC
	CENTRAL TRAFFIC SVC INC
301	HARTLEYS APPLIANCE
316	LEES SUMMIT CLEANERS
318	CENTRAL CONSULTING SVC
	NATIONAL RESTORATION
320	ANDERSON ROBERTS BUILDERS INC
	MARY KS INTERIORS
322	G & T ELECTRONICS
329	VETERANS OF FOREIGN WARS
332	HORN PRINTING & OFFICE SUPPLY
333	SPRINGTIME NURSERY

Target Street	Cross Street	Source
-	✓	Cole Information

NE GREEN ST 1992

3	DAY, RALPH
4	PRESTON, JACK
5	SWEARNGIN, JOHN E
6	STOVALL, KEVIN B
7	CAMPBELL, ROBERT B
101	PATINA PNTR
103	WHEELER, V R
115	SMART, ELNORA S
200	SHOEMAKER, CHRIS
201	SMART, CARL J
300	MORRIES, NOAH JR
301	OLDHAM, TED
302	YOAKUM, R W
305	MCCORMICK, MIKE
307	RICKERT, ROBERT E
312	EVERMAN, WILSON E
313	PARSONS, RAYMOND L
315	HILD, STEVE
406	BRATTIN, KENNETH O
408	BRASWELL, K K
504	WRIGHT, RONALD D
506	FERRIS, K A
507	WILLI-MAR SHOKE HS
	WILLIMAR SMOKE HSE
600	FURNEY, DONALD
602	KRZYWICKI, JOSEPH P
603	KILGORE, KEN
	LONG, E J
	SPROWLS, DONNA
604	COX, ALMA
606	DECKER, JERRY L
607	HICKS, DELLA

Target Street	Cross Street	Source
-	✓	Cole Information

NE MAIN ST 1992

109	ROLLER, DUANE
111	WRIGHT, B
207	SCHNEIDER, S P
210	UCHTMANN, D H
211	POMMER, B
212	CES INC
	COMMUNCATN EQP SPC
	COMMUNCTN TWR LEAS
	FGI CONTRACT GLZNG
	FINGLAND GLASS INC
	MANESS ENGINEERING
214	SUMMIT GRAPHICS
216	JAYDON INC
	RSVP
218	STEWART, K P
	VANDERHOOF, BRUCE
219	SLINKER, RODNEY
301	BOGUE, J
	FRAZE, DANNY
	SVOVODA, B
306	COLLIER, ROBERT W
307	STEVENS, MARION P
309	BOCK, DANNY J
310	VANVLIET, BOB
401	BRUCE, OWEN A
407	CHAMBERS, RONALD
409	EISKINA, WILLIAM J
505	TAPSCOTT, NORMAN L
510	WILLEY, SAM
511	WILLIAMS, RON
600	MCCANN, HUGH
601	GRIFFIN, FRANCO E
602	GRAHAM, DAVID A
605	PURVES, GAIL A
606	CRABTREE, PIERSON JR
607	RIDGE, GENE O
609	CLOYED, ROBERT E
613	DAVIS, EARL
614	THURMAN, JOHN T
615	MERRICK, M J
616	WHEATLEY, HARRY F
617	DAVIS, ROBERT C

Target Street	Cross Street	Source
-	✓	Cole Information

SE 2ND ST 1992

6	MDWST INDSTRL SERV
8	N&L CNSTCTN CO
10	SHEPHERDS CENTERS
11	DR JEFF L HARSCH
	HARSCH, JEFF L
	LEES SUMMIT HEARNG
16	LEES SMMT SNGL MNS
101	AMER RED CROSS
111	DRAYTON RILEY INS
	RILEY, DRAYTON W
	STATE FARM INS
115	CITY CRMNL INVSTGT
	CTY MUNICIPAL CRT
	CTY POLICE DEPT
	CTY RECORDS
202	GRAEFF&RYAN ATY
	HUGH H RYAN ATY
	R J GRAEFF ATY
204	FARMERS INS GROUP
	RAY WEEDA INS
206	DR JAMES F EUDALY
	DR LON S EUDALY
	EUDALY, JAMES F
208	THE MEDICINE SHPPE
210	HEAVY ON CHOCOLATE
300	DR CHRIS CRAEMER
	DR D K NELSON
	DR DAN L BLACKWELL
	DR H A BROWER III
	DR M R SUENRAM
	DR MARK W MARTIN
	DR TODD D BROWER
	DR W E LUTHER JR
	LEES SUMMIT FMLY
	ORTHOSPORT REHAB

Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 1992

102	DREYER, LAURA D
104	SHACKLEFORD, JAMES E
114	GENESIS PRESCHOOL
200	CARL L CHINNERY
	CHINNERY&ASSOC ATY
	D L ROBERTS ATY
	DICKEY&ASOC CPAS
	DR R E STONE
	FRANKLIN, JUDY M
	G W HUSTON ATY
	J M FRANKLIN CPA
	JANEECE DENT ATY
	KARL BERTRAM ATY
	STONE, RANDALL E
207	CTY FIRE DEPT
210	CLIPPERS STATION
	PETRO-SITE ASSMNT
213	RAYS BOTIQUE SLN
215	TRINKETS
216	E&Q HTNG&CLNG INC
217	JOHNS BARBER SHOP
219	DOUGLAS STRT EMPRM
220	AMRCN HERITG ANTIQ
	ANTIQUES ULTD
	SARATOGA GAMES&HOB
225	BALBOA MORTGAGE
	DARRON PROPERTIES
	DARRON PRPT RL EST
226	ESSEX ENVIRONMTL
301	HARTLEY FURN CO
	HARTLEYS APPLIANC
	HARTLEYS FURN&APLN
316	LEES SUMMIT CLENRS
318	SHOOK, S
320	BELLAH PROPERTIES
	BOSTON INS
	KROHNS TAX SVC
	SANDERS CNSTRCTN
322	G&T ELECTRONICS
323	COOPERS AUTO&TRUCK
326	CENTRAL CONSULTING
	H S NAGY CO MFG
	MOVIE ESOTERISA
	NATIONAL RESTORATN
	REED&REED
329	CARTER, JOHN L
	JOHN L CARTER
	KORCOM LTD
	MIKES APPLNC CTR
332	OFFICE SQUARE

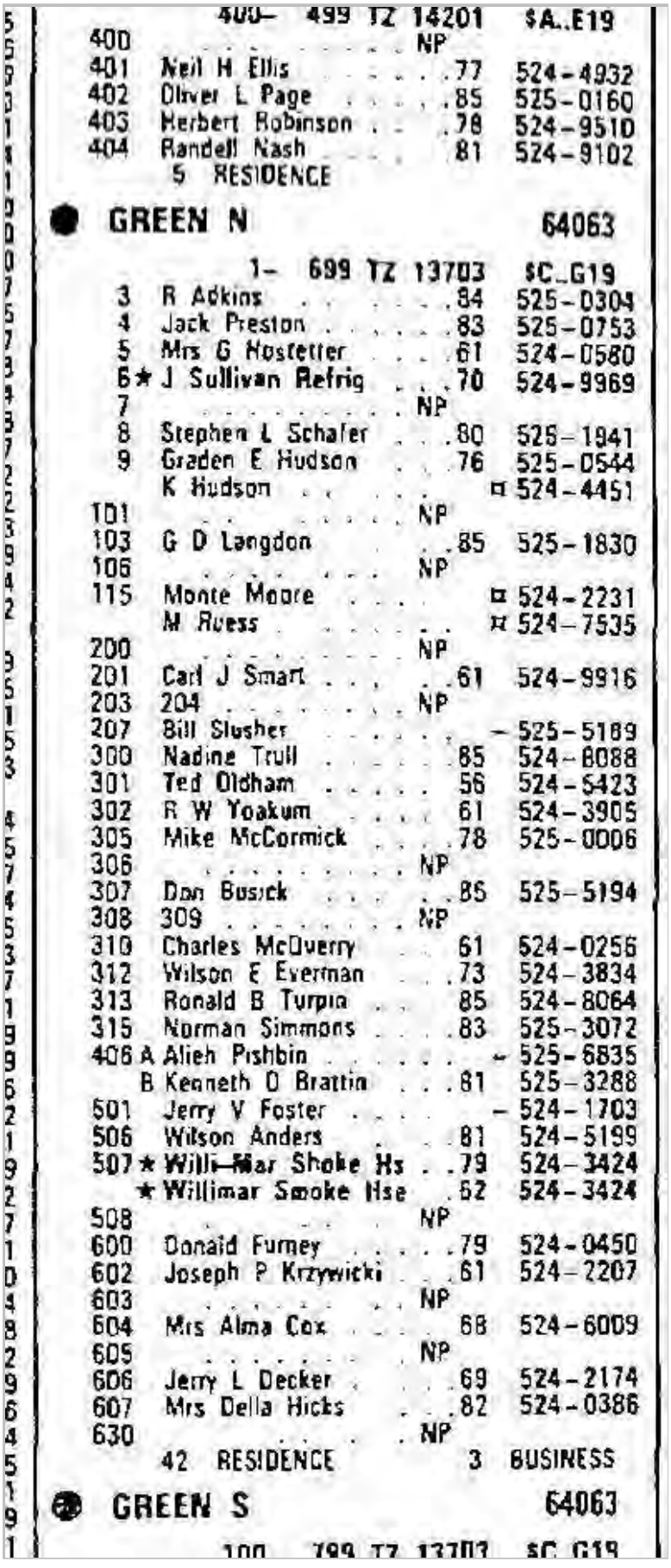
Target Street	Cross Street	Source
✓	-	Cole Information

SE DOUGLAS ST 1992 (Cont'd)

333 SPRINGTIME NURSERY

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE GREEN ST 1987



400– 499 TZ 14201 $A..E19

400 . . . . . NP
401 Neil H Ellis 77 524-4932
402 Oliver L Page 85 525-0160
403 Herbert Robinson 78 524-9510
404 Randell Nash 81 524-9102
5 RESIDENCE

GREEN N 64063

1– 699 TZ 13703 $C..G19

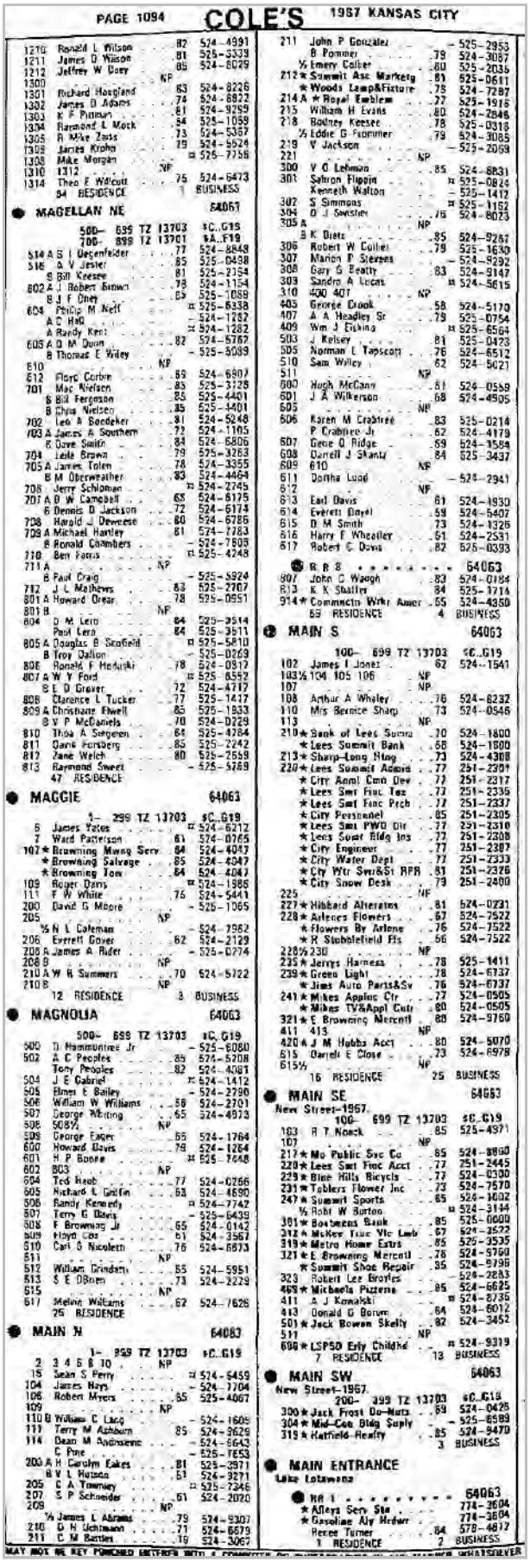
3 R Adkins 84 525-0304
4 Jack Preston 83 525-0753
5 Mrs G Hostetter 61 524-0580
6★ J Sullivan Refrig 70 524-9969
7 . . . . . NP
8 Stephen L Schafer . . .80 525-1941
9 Graden E Hudson 76 525-0544
K Hudson . . . . . ¤ 524-4451
101 . . . . . NP
103 G D Langdon 85 525-1830
106 . . . . . NP
115 Monte Moore . . . . ¤ 524-2231
M Ruess . . . . . ¤ 524-7535
200 . . . . . NP
201 Carl J Smart 61 524-9916
203 204 . . . . . NP
207 Bill Slusher . . . . . – 525-5189
300 Nadine Trull 85 524-8088
301 Ted Oldham 56 524-5423
302 R W Yoakum 61 524-3905
305 Mike McCormick 78 525-0006
306 . . . . . NP
307 Don Busick 85 525-5194
308 309 . . . . . NP
310 Charles McQuerry . . . 61 524-0256
312 Wilson E Everman . . .73 524-3834
313 Ronald B Turpin . . . 85 524-8064
315 Norman Simmons 83 525-3072
406 A Alieh Pishbin . . . . . – 525-6835
B Kenneth O Brattin . . .81 525-3288
501 Jerry V Foster . . . . – 524-1703
506 Wilson Anders 81 524-5199
507★ Willi-Mar Shoke Hs . .79 524-3424
★ Willimar Smoke Hse .52 524-3424
508 . . . . . NP
600 Donald Furney 79 524-0450
602 Joseph P Krzywicki . . .61 524-2207
603 . . . . . NP
604 Mrs Alma Cox 68 524-6009
605 . . . . . NP
606 Jerry L Decker 69 524-2174
607 Mrs Della Hicks 82 524-0386
630 . . . . . NP
42 RESIDENCE 3 BUSINESS

GREEN S 64063

100 799 TZ 13703 $C..G19

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE MAIN ST 1987



PAGE 1094 COLE'S 1987 KANSAS CITY

1210 Ronald L Wilson .82 524-4991
1211 James D Wilson .81 525-3339
1212 Jeffrey W Doey .85 524-8029
1300 NP
1301 Richard Hoagland .83 524-8226
1302 James D Adams .74 524-8822
1303 K F Putnam .81 524-9289
1304 Raymond L Mock .84 525-1059
1305 R Mike Zuss .73 524-5367
1306 James Krohn .79 524-5624
1308 Mike Morgan ✉ 525-7756
1310 1312 NP
1314 Theo F Wolcott .75 524-6473
84 RESIDENCE 1 BUSINESS

MAGELLAN NE 64067

500- 699 TZ 13703 $C..G19
700- 899 TZ 13701 $A..F19

514 A G I Oesenfelder .77 524-8848
516 A V Jester .85 525-0438
B Bill Keesee .81 525-2194
802 A J Robert Brown .78 524-1154
B J F Otey .69 525-1089
604 Philip M Neff ✉ 525-8338
A C Heil - 524-1282
A Randy Kent ✉ 524-1282
605 A D M Dunn .82 524-5767
B Thomas E Wiley - 525-9039
610 NP
612 Floyd Corbin .69 524-6807
701 Mac Nielsen .85 525-3128
B Bill Ferguson .85 525-4401
B Chris Nielsen .85 525-1401
702 Leo A Boedeker .81 524-5248
703 A James A Southern .72 524-1105
B Dave Smith .84 524-6806
704 Leslie Brown .79 525-3263
705 A James Tolen .78 524-3355
B M Oberweather .83 524-4464
708 Jerry Schloman ✉ 524-2745
707 A D W Campbell .68 524-8175
B Dennis D Jackson .72 524-6174
708 Harold J Deweese .80 524-6786
709 A Michael Hartley .81 524-7783
B Ronald Chambers - 524-7808
710 Ben Farris ✉ 525-4248
711 A NP
B Paul Craig - 525-5924
712 J L Mathews .83 525-2707
801 A Howard Drear .78 525-0951
801 B NP
804 D M Lero .84 525-3514
Paul Lero .84 525-3611
805 A Douglas B Scofield ✉ 525-5810
B Troy Dalton - 525-0269
806 Ronald F Herlihi .78 524-0817
807 A W Y Ford ✉ 525-8592
B L D Graver .72 524-4717
808 Clarence L Tucker .77 525-1417
809 A Christiane Elwell .85 525-1833
B V P McDaniels .70 524-0229
810 Thos A Sergeeon .68 525-4284
811 Dane Forsberg .85 525-2242
812 Jane Welch .80 525-2559
813 Raymond Sweet - 525-5769
47 RESIDENCE

MAGGIE 64063

1- 299 TZ 13703 $C..G19

5 James Yates ✉ 524-6212
7 Ward Patterson .61 524-0765
107 ★ Browning Mwng Serv .64 524-4047
★ Browning Salvage .85 524-4047
★ Browning Tow .64 524-4047
109 Roger Davis ✉ 524-1986
111 F W White .75 524-5441
200 David G Moore - 525-1065
205 NP
½ N L Coleman - 524-7962
206 Everett Goyer .62 524-2129
208 A James A Rider - 525-0274
208 B NP
210 A W R Summers .70 524-5722
210 B NP
12 RESIDENCE 3 BUSINESS

MAGNOLIA 64063

500- 699 TZ 13703 $C..G19

505 D Hammontree Jr - 525-6080
502 A C Peoples .85 524-5208
Tony Peoples .82 524-4081
504 J E Gabriel ✉ 524-1412
505 Elmer E Bailey - 524-2796
506 William W Williams .59 524-2701
507 George Whiting .65 524-4973
508 508½ NP
509 George Eager .65 524-1764
600 Howard Davis .78 524-1264
601 H P Boone ✉ 525-7648
602 603 NP
604 Ted Raab .77 524-0266
605 Richard L Griffin .63 524-4690
606 Randy Kennedy ✉ 524-7742
607 Terry G Davis - 525-6439
608 F Browning Jr .65 524-0142
609 Floyd Cox .61 524-3567
610 Carl S Nicoletti .76 524-6873
611 NP
612 William Grindatti .65 524-5951
613 S E OBrien .73 524-2229
615 NP
617 Melvin Williams .62 524-7628
25 RESIDENCE

MAIN N 64063

1- 899 TZ 13703 $C..G19

2 3 4 5 6 10 NP
15 Sean S Perry ✉ 524-6459
104 James Hays - 524-7704
106 Robert Myers .85 525-4067
109 NP
110 B William C Lacy - 524-1605
111 Terry M Ashburn .85 524-9629
114 Dean M Andreasens - 524-6643
C Pine - 525-7653
200 A H Carolyn Eakes .81 525-3971
B V L Hutson .61 524-9271
205 C A Twomey ✉ 525-7246
207 S P Schneider .61 524-2070
208 NP
½ James L Abrams .79 524-9307
210 D H Uchtmann .71 524-6679
211 C M Bartles .79 524-3067
211 John P Gonzalez - 525-2953
B Pommer .79 524-3087
½ Emery Colber .80 525-2036
212 ★ Summit Ass Marketg .81 525-0611
★ Woods Lamp&Fixture .75 524-7287
214 A ★ Royal Emblem .77 525-1915
215 William H Evans .80 524-2846
218 Rodney Keesee .78 525-0318
½ Eddie G Frommer .79 524-3085
219 V Jackson - 525-2069
221 NP
300 V O Lehman .85 524-8831
301 Salmon Flippin ✉ 525-0824
Kenneth Walton - 525-1412
302 S Simmons ✉ 525-1152
304 D J Swisher .76 524-8023
305 A NP
B K Dietz .85 524-9267
306 Robert W Collier .79 525-1630
307 Marion P Stevens - 524-9292
308 Gary G Beatty .83 524-9147
309 Sandra A Lucas ✉ 524-5615
310 400 401 NP
403 George Crook .58 524-5170
407 A A Headley Sr .79 525-0754
409 Wm J Eskins ✉ 525-6564
503 J Kelsey .81 525-0423
505 Norman L Tapscott .76 524-6512
510 Sam Wiley .62 524-5021
511 NP
600 Hugh McCann .81 524-0569
601 J A Wilkerson .68 524-4505
605 NP
606 Karen M Crabtree .83 525-0216
P Crabtree Jr .62 524-4179
607 Gene O Ridge .69 524-1584
608 Darrell J Shantz .84 525-3437
609 610 NP
611 Dortha Lund - 524-2941
612 NP
613 Earl Davis .81 524-1930
614 Everett Doyel .59 524-5407
615 D M Smith .73 524-1326
616 Harry F Wheeler .61 524-2531
617 Robert C Davis .82 525-0393

R R B 64063
807 John C Waugh .82 524-0184
813 K K Shaffer .84 525-1716
914 ★ Communctn Wrkr Amer .65 524-4350
69 RESIDENCE 4 BUSINESS

MAIN S 64063

100- 699 TZ 13703 $C..G19

102 James I Jones .62 524-1541
103½ 104 105 106 NP
107 NP
108 Arthur A Whaley .76 524-8232
110 Mrs Bennie Sharp .73 524-0546
113 NP
210 ★ Bank of Lees Summ .70 524-1800
★ Lees Summit Bank .68 524-1800
213 ★ Sharp-Long Mtng .73 524-4308
220 ★ Lees Summit Admin .77 251-2301
★ City Admi Cmn Dev .77 251-2317
★ Lees Smt Fnc Tax .77 251-2335
★ Lees Smt Fnc Prch .77 251-2337
★ City Personnel .85 251-2305
★ Lees Smt PWD Dir .77 251-2310
★ Lees Smit Bldg Ins .77 251-2308
★ City Engineer .77 251-2387
★ City Water Dept .77 251-2333
★ Cty Wtr Swr&St RPR .81 251-2376
★ City Snow Desk .79 251-2400
225 NP
227 ★ Hibbard Alterations .81 524-0231
228 ★ Arlenes Flowers .67 524-7522
★ Flowers By Arlene .76 524-7522
★ R Stubblefield Fls .66 524-7522
228½ 230 NP
235 ★ Jerrys Harness .78 525-1411
239 ★ Green Light .78 524-6737
★ Jims Auto Parts&Sv .76 524-6737
241 ★ Mikes Applnc Ctr .77 524-0505
★ Mikes TV&Appl Cntr .80 524-0505
321 ★ E Browning Mercntl .68 524-9760
411 413 NP
420 ★ J M Hubbs Acct .80 524-5070
615 Darrell E Close .73 524-6978
615½ NP
16 RESIDENCE 25 BUSINESS

MAIN SE 64063

New Street-1957.
100- 699 TZ 13703 $C..G19

103 R T Noack .85 525-4971
107 NP
217 ★ Mo Public Svc Co .85 524-8800
220 ★ Lees Smt Fnc Acct .77 251-2445
229 ★ Blue Hills Bicycls .77 524-0300
231 ★ Toblers Flower Inc .73 524-7570
247 ★ Summit Sports .85 524-3002
½ Robt W Burton ✉ 524-3144
301 ★ Bostwicks Bank .85 525-0600
312 ★ McKee Trac Vlv Lab .67 524-2622
319 ★ Metro Home Extrs .85 525-3535
321 ★ E Browning Mercntl .76 524-9760
★ Summit Shoe Repair .85 524-9796
323 Robert Lee Broyles - 524-2883
469 ★ Michaels Pizzeria .85 524-6625
411 A J Kowalski ✉ 524-8236
413 Donald G Borum .64 524-6012
501 ★ Jack Bowen Skelly .82 524-3452
511 NP
698 ★ LSP50 Erly Childhd ✉ 524-9319
7 RESIDENCE 13 BUSINESS

MAIN SW 64063

New Street-1957.
200- 399 TZ 13703 $C..G19

300 ★ Jack Frost Do-Nuts .69 524-0425
304 ★ Mid-Con Bldg Suply - 525-6589
319 ★ Hatfield-Healty .85 524-9470
3 BUSINESS

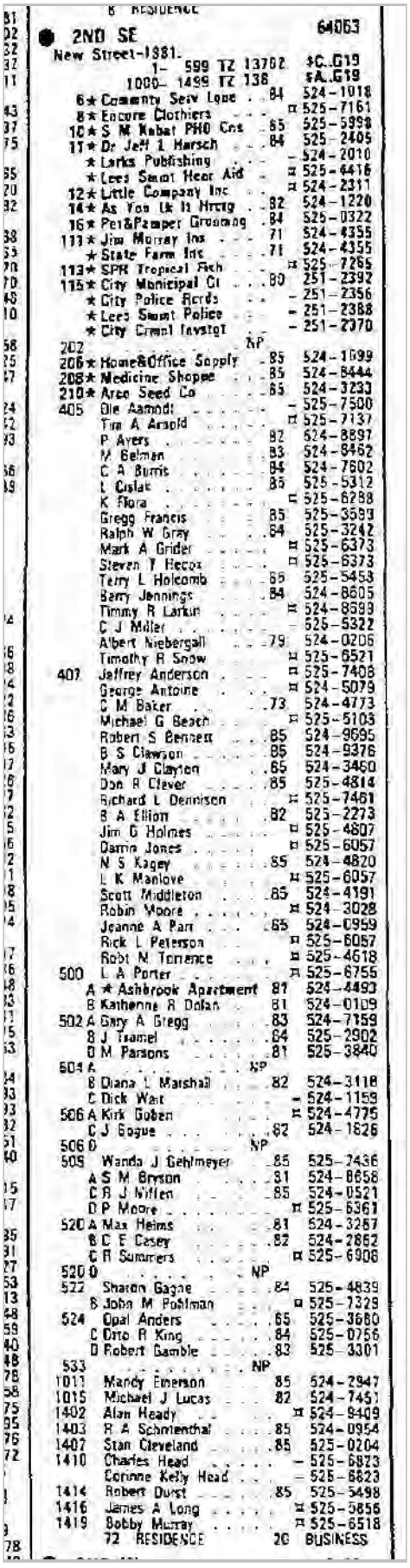
MAIN ENTRANCE
Lake Lotawana

RR 1 64063
★ Allens Serv Sta 774-3604
★ Gasoline Aly Hedwr 774-3604
Hexee Turner .84 578-4817
1 RESIDENCE 2 BUSINESS

MAY NOT BE KEY PUNCHED EITHER WITH A COMPUTER OR ELECTRONIC DATA PROCESSING UNIT WHATSOEVER

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

SE 2ND ST 1987



R RESIDENCE

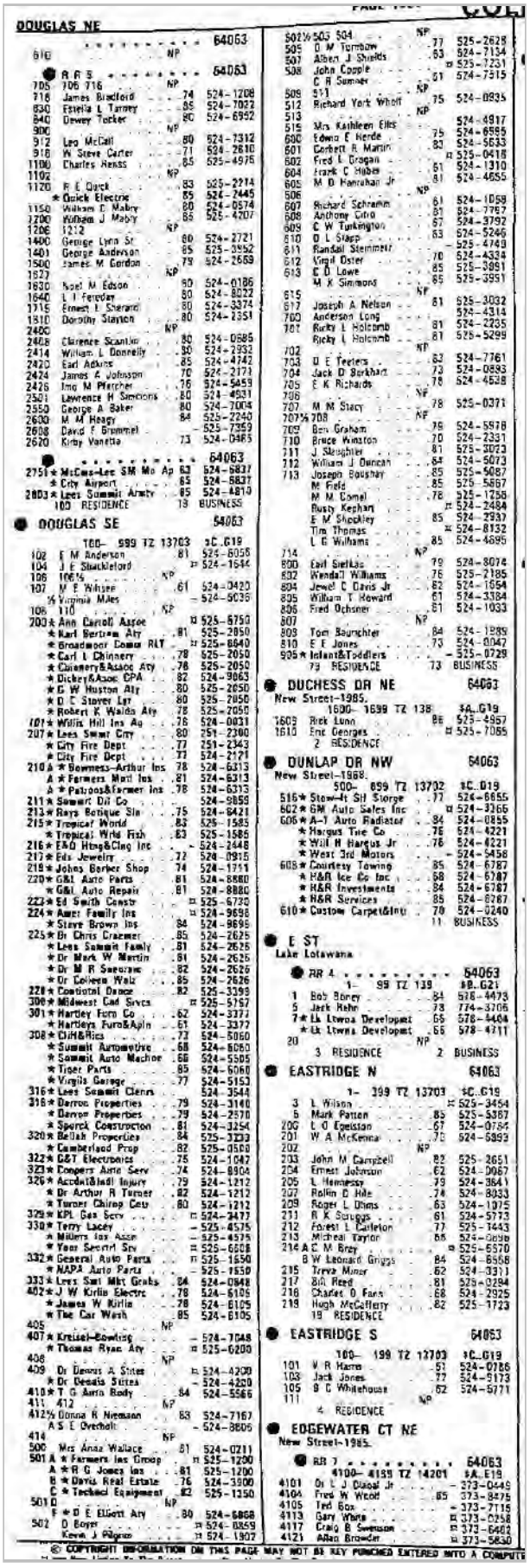
● 2ND SE 64063

New Street-1981-
1- 599 TZ 13702 $C..G19
1000- 1499 TZ 138 $A..G19

6★ Community Serv Lone . . 84 524-1018
8★ Encore Clothiers . . . ¤ 525-7161
10★ S M Kabat PHD Cns . 85 525-5998
11★ Dr Jeff L Hersch . . . 84 525-2405
★ Larks Publishing . . . - 524-2010
★ Lees Summt Hear Aid . ¤ 525-6416
12★ Little Company Inc . . ¤ 524-2311
14★ As You Like It Hrtg . 82 524-1220
16★ Pet&Pamper Grooming . 84 525-0322
111★ Jim Murray Ins . . . 71 524-4355
★ State Farm Ins . . . 71 524-4355
113★ SPR Tropical Fish . . ¤ 525-7265
115★ City Municipal Ct . . 80 251-2392
★ City Police Rcrds . . - 251-2356
★ Lees Summt Police . . - 251-2388
★ City Cmnl Invstgt . . - 251-2370
202 NP
206★ Home&Office Supply . 85 524-1099
208★ Medicine Shoppe . . 85 524-8444
210★ Area Seed Co . . . 85 524-3233
405 Ole Aamodt . . . . . - 525-7500
Tim A Arnold . . . . ¤ 525-7137
P Ayers 82 524-8897
M Belman 83 524-8462
C A Burris 84 524-7602
L Cislak 85 525-5312
K Flora . . . . . ¤ 525-6288
Gregg Francis . . . 85 525-3599
Ralph W Gray . . . 84 525-3242
Mark A Grider . . . . ¤ 525-6373
Steven T Hecox . . . . ¤ 525-6373
Terry L Holcomb . . . 85 525-5458
Barry Jennings . . . 84 524-8605
Timmy R Larkin . . . ¤ 524-8699
C J Miller . . . . . - 525-5322
Albert Niebergall . . 79 524-0206
Timothy R Snow . . . ¤ 525-6521
407 Jeffrey Anderson . . . ¤ 525-7408
George Antoine . . . ¤ 524-5079
C M Baker 73 524-4773
Michael G Beach . . . ¤ 525-5103
Robert S Bennett . . 85 524-9695
B S Clawson 85 524-9378
Mary J Clayton . . 85 524-3460
Don R Clever . . . 85 525-4814
Richard L Dennison . . ¤ 525-7461
B A Elliott 82 525-2273
Jim G Holmes . . . . ¤ 525-4807
Darrin Jones . . . . ¤ 525-6057
N S Kagey 85 524-4820
L K Manlove . . . ¤ 525-6057
Scott Middleton . . 85 524-4191
Robin Moore . . . . ¤ 524-3028
Jeanne A Parr . . . 85 524-0959
Rick L Peterson . . ¤ 525-6087
Robt N Torrence . . ¤ 525-4618
500 L A Porter . . . . ¤ 525-6755
A ★ Ashbrook Apartment 81 524-4493
B Katherine R Dolan . 81 524-0109
502 A Gary A Gregg . . . 83 524-7159
B J Tramel 84 525-2902
D M Parsons 81 525-3840
504 A NP
B Diana L Marshall . . 82 524-3118
C Dick Watt . . . . - 524-1159
506 A Kirk Goben . . . ¤ 524-4775
C J Bogue 82 524-1826
506 D NP
509 Wanda J Gehlmeyer . 85 525-2436
A S M Bryson . . . 81 524-8658
C B J Niffen . . . 85 524-0521
D P Moore . . . . ¤ 525-6361
520 A Max Helms . . . 81 524-3267
B C E Casey . . . 82 524-2862
C R Summers . . . ¤ 525-6906
520 D NP
522 Sharon Gagne . . . 84 525-4839
B John M Pohlman . . ¤ 525-7328
524 Opal Anders . . . 65 525-3680
C Otto R King . . . 84 525-0756
D Robert Gamble . . 83 525-3301
533 NP
1011 Mandy Emerson . . 85 524-2947
1015 Michael J Lucas . . 82 524-7451
1402 Alan Heady . . . ¤ 524-9409
1403 R A Schmienthal . . 85 524-0954
1407 Stan Cleveland . . 85 525-0204
1410 Charles Head . . . - 525-6823
Corinne Kelly Head . . - 525-6823
1414 Robert Durst . . . 85 525-5498
1416 James A Long . . . ¤ 525-5856
1419 Bobby Murray . . . ¤ 525-6518
72 RESIDENCE 20 BUSINESS

Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

SE DOUGLAS ST 1987



DOUGLAS NE

64063

610 NP

● R G S 64063

705 706 716 NP
716 James Bradford .74 524-1208
830 Estella L Tarney .85 524-7022
840 Dewey Tucker .80 524-6952
900 NP
912 Leo McCall .80 524-7312
916 W Steve Carter .71 524-2610
1100 Charles Hanks .85 525-4975
1102 NP
1120 R E Quick .83 525-2274
★ Quick Electric .85 524-2445
1150 William C Mabry .80 524-0574
1200 William J Mabry .85 525-4207
1206 1212 NP
1400 George Lynn Sr .80 524-2721
1401 George Anderson .85 525-3952
1500 James M Gordon .79 524-2659
1627 NP
1630 Noel M Edson .80 524-0186
1640 L I Feverday .80 524-8022
1715 Ernest L Sherard .80 524-3374
1810 Dorothy Stayton .80 524-2351
2400 NP
2408 Clarence Scanlon .80 524-0585
2414 William L Donnelly .93 524-2932
2420 Earl Adkins .85 524-4742
2424 James A Johnson .70 524-2171
2426 Imo M Pfercher .76 524-5459
2501 Lawrence H Simmons .80 524-4531
2550 George A Baker .80 524-7004
2600 M M Heagy .84 525-2240
2608 David F Brammel - 525-7359
2620 Kirby Vanettia .73 524-0485

● 64063

2751 ★ McCune-Lee SM Mo Ap .63 524-6837
★ City Airport .85 524-6837
2803 ★ Lees Summit Armty .85 524-4819
100 RESIDENCE 18 BUSINESS

● DOUGLAS SE 64063

100- 599 TZ 13703 $C..G19

102 E M Anderson .81 525-6058
104 J E Shackleford 524-1644
106 106½ NP
107 M E Wilspe .61 524-0420
½ Virginia Miles - 524-5035
108 110 NP
203 ★ Ann Carroll Assoc 525-6750
★ Karl Bertram Atty .81 525-2050
★ Broadmoor Comm RLT 525-6540
★ Carl L Chinnery .78 525-2050
★ Chinnery&Assoc Atty .78 525-2050
★ Dickey&Assoc CPA .82 524-9063
★ G W Huston Atty .80 525-2050
★ D C Stover Lgr .80 525-2050
★ Robert K Waldo Atty .78 525-2050
101 ★ Willis Hill Ins Ag .76 524-0031
207 ★ Lees Sumit City .80 251-2300
★ City Fire Dept .77 251-2343
★ City Fire Dept .73 524-2121
210 A ★ Bowness-Arthur Ins .78 524-6313
A ★ Farmers Mutl Ins .81 524-6313
A ★ Patrons&Farmer Ins .78 524-6313
211 ★ Summit Oil Co 524-9859
213 ★ Rays Botique Sln .75 524-8421
215 ★ Tropical World .83 525-1585
★ Tropical Wrld Fish .83 525-1585
216 ★ E&O Htng&Clng Inc - 524-2448
217 ★ Eds Jewelry .72 524-0915
218 ★ Johns Barber Shop .74 524-1751
220 ★ G&L Auto Parts .81 524-8880
★ G&L Auto Repair .81 524-8880
223 ★ Ed Smith Constr 525-6730
224 ★ Auer Family Ins 524-9698
★ Steve Brown Ins .84 524-9696
225 ★ Dr Chris Draemer .85 524-2625
★ Lees Summit Family .81 524-2625
★ Dr Mark W Martin .81 524-2625
★ Dr M R Sweezmr .82 524-2626
★ Dr Colleen Walz .85 524-2626
228 ★ Coastal Dance .82 525-3399
306 ★ Midwest Cad Srvcs 525-5767
301 ★ Hartley Farm Co .62 524-3377
★ Hartleys Furn&Apln .61 524-3377
308 ★ Chi&Rics .72 524-6060
★ Summit Automotive .68 524-6060
★ Summit Auto Machine .66 524-5505
★ Tiger Parts .85 524-6060
★ Virgils Garage .77 524-5153
316 ★ Lees Summit Cleners 524-3544
318 ★ Darron Properties .79 524-3140
★ Darron Properties .79 524-2570
★ Sperck Construction .81 524-3254
320 ★ Bellah Properties .84 525-3233
★ Cumberland Prop .82 525-0500
322 ★ G&T Electronics .75 524-1042
323 ★ Coopers Auto Serv .74 524-8904
326 ★ Accdnt&Indl Injury .79 524-1212
★ Dr Arthur R Turner .82 524-1212
★ Turner Chirop Cntr .80 524-1212
329 ★ KPL Gas Serv 524-3477
330 ★ Terry Lacey - 525-4575
★ Millers Ins Assn - 525-4575
★ Year Security Srv 525-6808
332 ★ General Auto Parts 525-1550
★ NAPA Auto Parts - 525-1550
333 ★ Lees Sum Mkt Grdns .84 524-0848
402 ★ J W Kirlin Electric .78 524-6105
★ James W Kirlin .78 524-6105
★ The Car Wash .85 524-6105
405 NP
407 ★ Kretsel-Bowling - 524-7048
★ Thomas Ryan Atty 525-6200
408 NP
409 Dr Dennis A Sittes 524-4200
★ Dr Dennis Sittes - 524-4200
410 ★ T G Auto Body .84 524-5566
411 412 NP
412½ Donna R Niemann .83 524-7167
A S E Overholt - 524-8805
414 NP
500 Mrs Anna Wallace .81 524-0211
501 A ★ Farmers Ins Group 525-1200
A ★ R G Jones Ins .81 525-1200
B ★ Davis Real Estate .76 524-3900
C ★ Technol Equipment .82 525-1350
501 D NP
E ★ D E Elliott Atty .80 524-6868
502 D Boyer 524-0359
Kevin J Pilgrim 524-1907

501½ 503 504 NP
505 D M Turnbow .77 525-2628
506 Albert J Shields .63 524-7134
507 John Copple 525-7231
C R Sumner .61 524-7515
508 511 NP
509 Richard York Wharf .75 524-0835
512 NP
513 524-4917
515 Mrs Kathleen Ellis .75 524-6585
600 Edwin E Herde .83 524-5633
601 Corbett R Martin 525-0418
602 Fred L Dragan .61 524-1310
604 Frank C Hibbs .81 524-4655
605 M D Hanrahan Jr NP
606 .61 524-1058
607 Richard Schramm .81 524-7767
608 Anthony Citro .67 524-3792
609 C W Turkington .63 524-5246
610 D L Stapp - 525-4748
611 Randall Steinmetz 524-4334
612 Virgil Oster .70 524-3081
613 C D Lowe .85 525-3951
M K Simmons NP
615 .81 525-3032
617 Joseph A Nelson 524-4314
700 Anderson Long .81 524-2235
701 Ricky L Holcomb .81 525-5299
Ricky L Holcomb NP
702 .63 524-7761
703 D E Teeters .73 524-0893
704 Jack D Burkhart .78 524-4528
705 E K Richards NF
706 .78 525-0371
707 M M Stacy NF
707½ 708 .79 524-5878
709 Ben Graham .70 524-2331
710 Bruce Winston .81 525-3073
711 J Slaughter .84 524-5073
712 William J Duncan .85 525-5087
713 Joseph Boushay .85 525-5867
M Field .78 525-1758
M N Domel 524-2484
Rusty Keghart .85 524-2937
E M Shockley 524-8132
Tim Thomas .85 524-4695
Tim Thomas NP
714 .79 524-8074
800 Earl Sieltjes .76 525-2185
802 Wendall Williams .82 524-1554
804 Jewel C Davis Jr .61 524-3384
805 William T Howard .81 524-1033
806 Fred Ochsner NP
807 .84 524-1885
809 Tom Baumchter .73 524-0047
810 E E Jones 525-0729
935 ★ Infant&Toddlers .73 BUSINESS
79 RESIDENCE

● DUCHESS DR NE 64063

New Street-1985.

1600- 1699 TZ 138 $A..G19

1609 Rick Lunn .86 525-4957
1610 Eric Georges 525-7065
2 RESIDENCE

● DUNLAP DR NW 64063

New Street-1988.

500- 899 TZ 13702 $C..D19

516 ★ Stow-It Sif Storge .77 524-6655
602 ★ GM Auto Sales Inc 524-3366
606 ★ A-1 Auto Radiator .84 524-0855
★ Hargus Tire Co .76 524-4221
★ Will H Hargus Jr .76 524-4221
★ West 3rd Motors - 524-5458
608 ★ Courtesy Towing .85 524-6787
★ H&R Ice Co Inc .68 524-6787
★ H&R Investments .84 524-6787
★ H&R Services .85 524-6787
610 ★ Custom Carpet&Inty .79 524-0240
11 BUSINESS

● E ST

Lake Lotawana

● RR 4 64063

1- 99 TZ 139 $B..G21

1 Bob Boney .84 578-4473
5 Jack Rehr .78 774-3206
7 ★ Lk Lowns Development .66 578-4404
★ Lk Lowns Development .66 578-4711
20 NP
3 RESIDENCE 2 BUSINESS

● EASTRIDGE N 64063

1- 199 TZ 13703 $C..G19

3 L Wilson 525-3454
5 Mark Patton .85 525-5367
200 L O Egelston .67 524-0786
201 W A McKenna .78 524-6399
202 NP
203 John M Campbell .82 525-2651
204 Ernest Johnson .62 524-0067
205 L Hennessy .79 524-3641
207 Rollin D Hile .74 524-8033
209 Roger L Ohms .63 524-1075
211 R K Scruggs .61 524-5773
212 Forest L Carleton .77 525-1443
213 Micheal Taylor .66 524-0010
214 A C M Brey 525-6570
B W Leonard Griggs .84 524-6568
215 Treva Miner .62 524-3311
217 Bill Reed .81 525-0294
218 Charles O Fann .68 524-2925
219 Hugh McCafferty .82 525-1723
19 RESIDENCE

● EASTRIDGE S 64063

100- 199 TZ 13703 $C..G19

101 W R Harris .51 524-0186
103 Jack Jones .77 524-5173
105 B C Whitehouse .62 524-5771
111 NP
4 RESIDENCE

● EDGEWATER CT NE

New Street-1985.

● RR 7 64063

4100- 4199 TZ 14201 $A..E19

4101 Dr L J Dacal Jr - 373-0449
4104 Fred W Wood .85 373-8475
4105 Ted Box - 373-7715
4113 Gary White 373-0258
4117 Craig B Swenson 373-6462
4121 Allan Browder 373-5830

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Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE GREEN ST 1977

3821 Thad Scott 4 524-6759
3823 Billy Cassity 5 524-2199
3831 B L Evans - 525-0121
3833 NP
3837 ★Kroh Brothers 524-6606
★Woods Chapel Park - 524-6606
10 Residence 2 Business

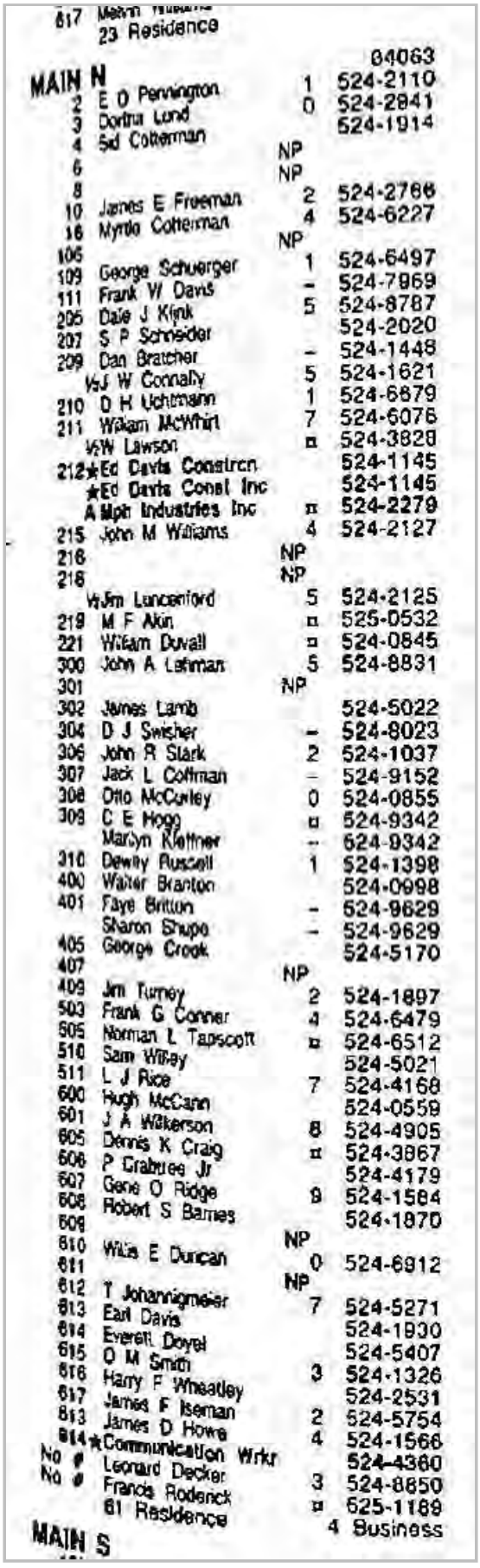
GRAVOIS MILLS MO 65037
Direct Phone Lines
★Page Boat Yard 524-6262
1 Business

GREEN N 64063
3 Mary Potter 1 524-0282
4 Henry C Kundert 524-1949
5 Mrs G Hostetter 524-0560
6★J Sullivan Retrig 524-9963
7 John Wingfield 524-0115
8 Bernard C Campbell 524-0209
N E Campbell 524-0209
9 Graden E Hudson 525-0541
101 Irene Keller 524-0642
103 J H Walker 524-0566
106 Harold L Fann 5 524-4543
115 F C Hagg - 524-7628
A A H Ebert 2 524-5012
B NP
200 Leonard Rice 524-0667
201 Carl J Smart 524-9916
203 John Manley 3 524-5729
204 William Rhea 5 524-9131
207 Paul L Parker 2 524-2226
300 Lucille Childers 5 524-7455
301 Ted Oldham 524-5423
302 R W Yeakum 524-1784
305 NP
306 Mrs Maude Thompson 524-0359
307 Roger Moorhead 9 524-2154
308 Arthur Hilyer 524-7095
309 Paul P Phillips 524-2139
310 Charles McQueery 524-0255
312 Wilson E Everman 3 524-3834
313 Shirley Thornton - 525-0743
Steve Thornton 525-0743
315 Ann Nichols 524-5651
406A Richard Coolidge 524-1142
B NP
501 Forrest Root 9 524-6043
506 Melvin V Raney 3 524-6697
507★Willmar Smoke Hs 524-3424
★Willmar Smoke Hse 524-3424
508 Norris Hatfield 524-5114
600 Michael Grassley 4 524-2973
602 Joseph P Krzywicki 524-2207
603 NP
604 Mrs Alma Cox 8 524-6009
605 Robert L Williams 7 524-2477
606 Jerry L Decker 9 524-2172
607 NP
630 Terry Graham 5 524-6032
44 Residence 3 Business
64063

GREEN S NP
105 7 524-0309
107 Mrs William Bray 524-7601
110★Lees Sant Elem Sch 524-7551
111 Gilbert Greenwood 8
NP
524-4752
524-5551

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE MAIN ST 1977



817 Mavin Industries
23 Residence

84063

MAIN N

2	E O Pennington	1	524-2110
3	Dortha Lond	0	524-2841
4	Sid Cotterman		524-1914
6		NP	
8		NP	
10	James E Freeman	2	524-2766
16	Myrtle Cotterman	4	524-6227
106		NP	
109	George Schuerger	1	524-6497
111	Frank W Davis	-	524-7969
205	Dale J Kink	5	524-8787
207	S P Schneider		524-2020
209	Dan Bratcher	-	524-1448
	W J W Connally	5	524-1621
210	D H Uchtmann	1	524-6879
211	William McWhirt	7	524-6076
	W W Lawson	¤	524-3828
212	★Ed Davis Constrcn		524-1145
	★Ed Davis Const Inc		524-1145
	A Mavin Industries Inc	¤	524-2279
215	John M Williams	4	524-2127
216		NP	
218		NP	
	W Jim Lancenford	5	524-2125
219	M F Akin	¤	525-0532
221	William Duvall	¤	524-0845
300	John A Lehman	5	524-8831
301		NP	
302	James Lamb		524-5022
304	D J Swisher	-	524-8023
306	John R Stark	2	524-1037
307	Jack L Coffman	-	524-9152
308	Otto McCorley	0	524-0855
309	C E Hogg	¤	524-9342
	Marilyn Kleffner	-	524-9342
310	Dewey Russell	1	524-1398
400	Walter Branton		524-0998
401	Faye Britton	-	524-9629
	Sharon Shupe	-	524-9629
405	George Crook		524-5170
407		NP	
409	Jim Turney	2	524-1897
503	Frank G Conner	4	524-6479
505	Norman L Tapscott	¤	524-6512
510	Sam Wiley		524-5021
511	L J Rice	7	524-4168
600	Hugh McCann		524-0559
601	J A Wilkerson	8	524-4905
605	Dennis K Craig	¤	524-3867
606	P Crabtree Jr		524-4179
607	Gene O Ridge	9	524-1584
608	Robert S Barnes		524-1870
609		NP	
610	Willis E Duncan	0	524-6912
611		NP	
612	T Johannigmeier	7	524-5271
613	Earl Davis		524-1930
614	Everett Doyel		524-5407
615	O M Smith	3	524-1326
616	Harry F Wheatley		524-2531
617	James F Iseman	2	524-5754
613	James D Howe	4	524-1566
614	★Communication Wrkr		524-4360
No #	Leonard Decker	3	524-8850
No #	Francis Roderick	¤	625-1189
	61 Residence	4	Business

MAIN S

Target Street	Cross Street	Source
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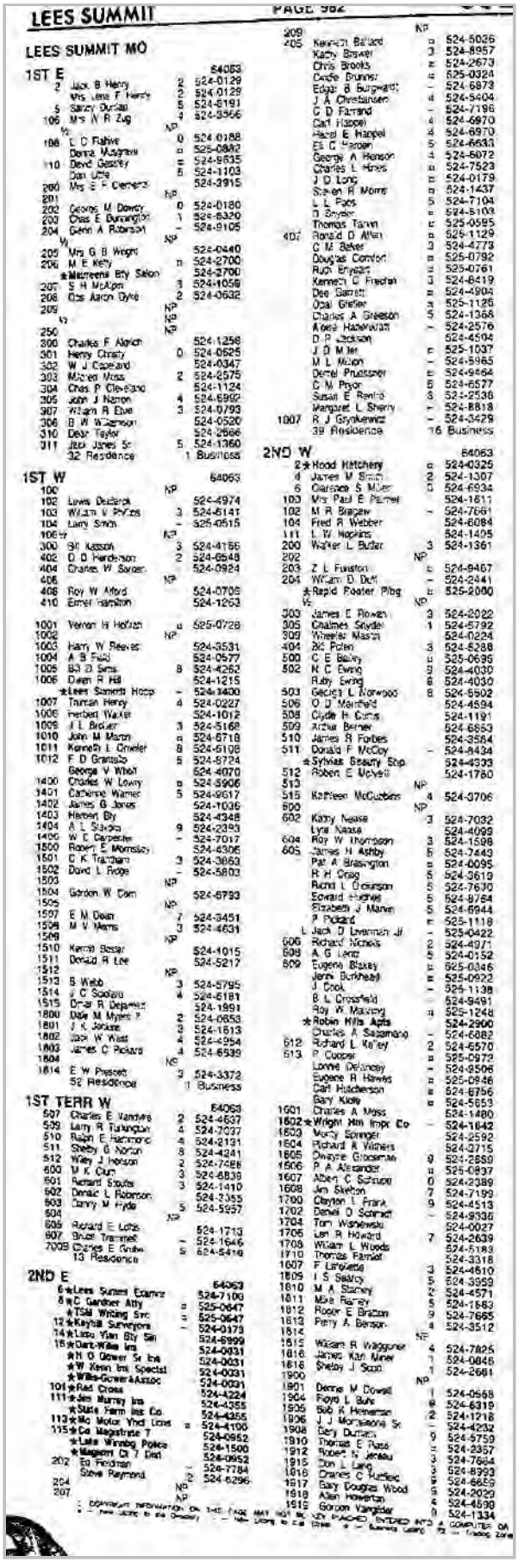

LEES SUMMIT

LEES SUMMIT MO

1ST E

64063

2 Jack B Henry 2 524-0129
Mrs Jane F Henry 2 524-0129
5 Sandy Dunlap 5 524-6191
106 Mrs N R Zug 4 524-3566
½ NP
108 L C Fishve 0 524-0188
Donna Musgrave 524-0842
110 David Gassley 524-9635
Dan Little 5 524-1103
200 Mrs E F Clements 524-3915
201 NP
202 George M Dewey 0 524-0180
203 Chas E Durrington 1 524-5329
204 Glenn A Robinson - 524-5105
½ NP
205 Mrs G B Wright 524-0440
206 M E Kelly 524-2700
★Maureens Bty Salon 524-2700
207 S H McAfee 3 524-1059
208 Dds Aaron Dyke 2 524-0632
209 NP
½ NP
250 NP
300 Charles F Aldrich 524-1256
301 Henry Christy 0 524-0525
302 W J Copeland 524-0347
303 Mildred Moss 2 524-2575
304 Chas P Cleveland 524-1124
305 John J Nemon 4 524-6992
307 William R Ebel 3 524-0793
308 B W Williamson 524-0520
310 Dale Taylor 524-2566
311 Jack James Sr 5 524-1360
32 Residence 1 Business

1ST W

64063

100 NP
102 Lewis Declerck 524-4974
103 William V Phillips 3 524-6141
104 Larry Smith - 525-0515
106½ NP
300 Bill Masson 3 524-4186
402 O D Henderson 2 524-0648
404 Charles W Sander 524-0924
406 NP
408 Roy W Alford 524-0706
410 Ernest Hamilton 524-1263

1001 Vernon H Horton 0 525-0728
1002 NP
1003 Harry W Reeves 524-3531
1004 A B Field 524-0577
1005 Bill D Sims 8 524-4262
1006 Dawn R Hill 524-1215
★Lees Summit Hosp - 524-3400
1007 Truman Henry 4 524-0227
1008 Herbert Walker 524-1012
1009 J L Bridges 3 524-5168
1010 John M Martin 0 524-5718
1011 Kenneth L Crowley 8 524-5108
1012 F D Gramlich 5 524-5724
George V Whelt 524-4070
1400 Charles W Lowry 0 524-5906
1401 Catherine Warner 5 524-9617
1402 James G Jones 524-1036
1403 Hansen Bly 524-4348
1404 A L Slavens 9 524-2393
1405 W C Carpenter - 524-7017
1500 Robert E Morrissey 524-4306
1501 C K Trautham 3 524-3863
1502 David L Ridge - 524-5803
1503 NP
1504 Gordon W Dain 524-6793
1505 NP
1507 E M Dain 7 524-3451
1508 M V Mams 3 524-4631
1509 NP
1510 Kermit Bosar 524-1015
1511 Donald R Lee 524-5217
1512 NP
1513 B Webb 3 524-5795
1514 J C Sookara 4 524-6181
1515 Omer R Degarmo 524-1991
1800 Dale M Myers Jr 2 524-0653
1801 J K Jenkins 3 524-1613
1802 Jack W Wiest 4 524-4954
1803 James C Pickens 4 524-6539
1804 NP
1814 E W Prescott 3 524-3372
52 Residence 1 Business

1ST TERR W

64063

507 Charles E Vanduyn 2 524-4637
509 Larry R Tulington 4 524-7037
510 Ralph E Hammond 4 524-2191
511 Shelby G Norton 8 524-4241
512 Wiley J Anderson 2 524-7488
600 M K Dun 3 524-6839
601 Richard Sparks 3 524-1410
602 Donald L Robinson 524-2355
603 Danny M Hyde 5 524-5957
604 NP
605 Richard E Lohs 524-1713
607 Bruce Trammell - 524-1646
7009 Charles E Grubs 5 524-5416
13 Residence

2ND E

64063

6★Lees Summit Examnr 524-7100
8★C Gardner Atty 0 525-0647
★TSM Writing Svc 0 525-0647
12★Keyhill Surveyors - 524-0179
14★Lasu Vian Bty Sal 524-6999
16★Dart-Wilke Ins 524-0031
★N O Glover Sr Ins 524-0031
★W Kevin Ins Special 524-0031
★Wilke-Glover&Assoc 524-0031
104★Red Cross 524-4224
111★Jim Murray Ins 524-4355
★State Farm Ins Co 524-4355
113★Mo Motor Vhcl Lcns 0 524-4100
115★Co Magistrate 7 524-0952
★Lees Winnng Police 524-1500
★Magem Ct 7 Dist 524-0952
202 Ed Friedman - 524-7784
Steve Raymond 2 524-6296
204 NP
207 NP

PAGE 962

209 NP
405 Kenneth Ballard 0 524-5026
Kathy Brewer 3 524-8957
Chris Brooks 524-2673
Dede Brunner 0 525-0324
Edgar B Burgward - 524-5873
J A Christiansen 4 524-6404
C D Farrand - 524-7196
Carl Hoppel 4 524-6970
Hazel E Hoppel 4 524-6970
Es C Hudson 5 524-6633
George A Henson 4 524-5072
Charles L Hines 0 524-7523
J D Long 0 524-0179
Steven R Morris 0 524-1437
L L Pace 5 524-7104
D Snyder 0 524-5103
Thomas Tatum 0 525-0595
407 Ronald D Allen 0 525-1129
C M Baker 3 524-4773
Douglas Comfort 0 525-0792
Ruth Enyeart 0 525-0761
Kenneth C Fredrick 3 524-6419
Dee Garrett 0 524-4904
Opal Grefer 0 525-1126
Charles A Greeson 5 524-1366
Abdel Hadeniah - 524-2576
D P Jackson 524-4504
J D M Ier 0 525-1037
M L Milton - 524-5965
Daniel Prudsaner 0 524-9464
C M Pryor 5 524-6577
Susan E Rentro 3 524-2536
Margaret L Sherry - 524-8818
1007 R J Grzyskowicz - 524-3429
39 Residence 16 Business

2ND W

64063

2★Hood Hatchery 0 524-0325
4 James M Smith 2 524-1307
6 Clarence S Miller 0 524-6934
100 Mrs Paul E Palmer 524-1811
102 M R Bragaw - 524-7661
104 Fred R Webber 524-6084
111 L W Hopkins 524-1405
200 Walter L Butler 3 524-1361
202 NP
203 Z L Funston 0 524-9467
204 William D Dutt - 524-2441
★Rapid Rooter Plbg 0 525-2060
½ NP
303 James E Rowan 3 524-2022
305 Chalmes Snyder 1 524-5792
309 Wheeler Mason 524-0224
404 Jos Peten 3 524-5288
500 C E Bailey 0 525-0695
502 N C Ewing 9 524-4030
Ruby Ewing 8 524-4030
503 George L Norwood 8 524-5902
506 O D Mansfield 524-4594
508 Clyde H Curts 524-1191
509 Arthur Berner 524-6853
510 James R Forbes 524-3564
511 Donald F McCoy - 524-8434
★Sylvias Beauty Stp 524-4393
512 Robert E Mowell 524-1780
513 NP
515 Kathleen McCubbins 4 524-3706
600 NP
602 Kathy Neasse 3 524-7032
Lyle Neasse 524-4099
604 Roy W Thompson 3 524-1598
605 James H Ashby 5 524-7443
Pat A Brassington 0 524-6095
R H Craig 5 524-3619
Richd L Dickerson 5 524-7630
Edward Hughes 5 524-8764
Elizabeth J Marvin 5 524-6944
P Pollard 525-1118
L Jack D Overman Jr - 525-0422
606 Richard Nichols 2 524-4971
608 A G Lentz 5 524-0152
609 Eugene Blakey 0 525-0346
Jerri Burkhead 0 525-0922
J Cook - 525-1138
B L Crossfield 524-9491
Roy W Mahoney 0 525-1248
★Robin Hills Apts 524-2900
Charles A Sassmann - 524-6882
612 Richard L Kelley 2 524-5570
613 P Cooper 0 525-0979
Lonnie Dellaney - 524-9506
Eugene R Hawes 0 525-0946
Carl Hutcherson 0 524-8756
Gary Klote 0 524-5653
1601 Charles A Moss 524-1480
1602★Wright Mm Impr Co - 524-1842
1603 Monty Springer 524-2592
1604 Richard R Withers 524-2715
1605 Dwayne Grossman 9 524-2850
1606 P A Alexander 0 525-0837
1607 Albert C Schrupp 0 524-2389
1608 Jim Skelton 7 524-7199
1700 Clayton L Frank 9 524-4513
1702 Daniel D Schmidt - 524-9336
1704 Tom Wisniewski 524-0027
1705 Lee R Howard 7 524-2639
1709 William L Woods 524-5183
1710 Thomas Farmer 524-3318
1607 F Langreide 3 524-4810
1809 I S Searcy 5 524-3959
1810 M A Stanley 2 524-4571
1811 Mike Rainey 5 524-1663
1812 Roger E Bratton 9 524-7665
1813 Perry A Benson 4 524-3512
1814 NP
1815 William R Waggoner 4 524-7825
1816 James Karl Miner 7 524-0848
1816 Shelby J Scott 1 524-2691
1900 NP
1901 Dennis M Dowell 1 524-0558
1904 Floyd L Buhr 9 524-6319
1905 Bob K Heineman 2 524-1218
1906 J J Montesano Sr - 524-4232
1908 Gary Durham 9 524-5759
1910 Thomas E Rose 524-2357
1912 Robert N Jensen 3 524-7644
1915 Don L Lang 3 524-8993
1916 Charles C Hurtado 9 524-6659
1917 Gary Douglas Wood 5 524-2029
1918 Allen Howerton 4 524-4590
1919 Gordon Vangilder 0 524-1334

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Target Street	Cross Street	Source
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SE DOUGLAS ST 1977

DOUGLAS S

		Residence		12 Business
100				84060
102			NP	
104	J E Shackleford		NP	
106	Russell Alley			524-1641
	½			524-5037
			NP	
107	Emma B Love		3	524-5244
	M E Wilson			524-0420
	½		NP	
108	R P Kerley II		–	524-9689
110	Raymond Kerley Sr		4	524-3913
207	★City All Depts		¤	524-8200
	★City Fire Headqrtr		¤	524-8200
210	★Beauty Unlimited		¤	524-0119
	★Duncan Real Est			524-0040
211	★Summit Oil Co			524-5859
213	★Rays Botique Sln			524-8421
215	★Dr R H Ritter Jr			524-0074
216	★Offco Mfg Co		¤	525-0733
217	★Eds Jewelry			524-0915
219	★Chucks Barber Shop			524-1711
220	★Merine World			524-0812
221	★Summit Intrs Orprs		¤	524-1234
223	★Team Sports Inc			524-2314
228	★D C Earnshaw Lwyr			524-3428
	★C E Hobbs Lwyr		¤	524-3428
301	★Hartley Furn Co			524-3377
	★HarBeys Furn&Apls			524-3377
306	★V Bonds Garage			524-5163
	★Cliff&Rics St Auto			524-6060
	★Summitt Automotive			524-6060
	★Summit Auto Machine			524-5565
	★Virgils Auto Servc			524-5153
316	★Lees Summit Clnrs			524-3544
318	Terry L Gerber		¤	524-0506
	★S S Greca Real Est			524-0084
322	★G&T Electronics			524-1047
323	★Coopers Auto Serv			524-6904
324	★J F Bowness Ins			524-8313
	★Patrons&Frmrs Ins			524-8313
326	★Dr L L Bechtold			524-1212
	★Dr Paul F Hennessy			524-1212
328	★The Gas Service Co			524-3477
	★The Gas Service Co			524-3477
	★The Gas Service Co			524-3477
332	★A-Z Office Furnitre		¤	525-1212
	★Hom Home&Ofc Sply		¤	524-1099
4 &	★Christian Church			524-3818
405	Mrs Harry Hobert		0	524-0569
407	★Christian Church			524-1531
408	Frank Koehler		5	524-5434
409	★Dr R R Needham			524-4200
410	★Cedarwood Roofing			524-0557
411			NP	
412	Minnie Mann		4	524-4782
	½		NP	
414	Clarence Hughes		5	524-7832
500	Mrs Anna Wallace			524-0211
501	★Davis Real Estate		¤	524-3900
	A H E Rapper Rl Est			524-7056
	B Kirby Co Lees Sumt		¤	524-2840
	C R V Laplante Acct			524-0701
	C Rohm Construction			524-0701
	D C J Smith		5	524-6655
	E Sweetpea Sample Sh			524-5449
	F Dr Daniel C Kamins		¤	524-4750
502	Joe B Fenley		–	524-9428
503	Mrs Deane Fowlkes			524-2354
504	Richard J Brauner		4	524-7985
505	E C Falk			524-0032
507	Albert J Shields			524-7134
508	Edgar Martin		¤	525-0708
	C F Sumner			524-7515
509	Maurice Bailey		3	524-0966
	Cheryl L Jackson		¤	525-0230
	Jerry Parrish Jr		¤	524-1378
	Kalki H Pierce		–	525-0163
511			NP	
512	Richard York Whsl		5	524-0935
513	Ronald E Cox		–	524-8782
515	Mrs Kathleen Ellis			524-4917
600	Edwin E Herde		5	524-6998
601	John A Rookstool		2	524-7317
602	Gary L McCarty		4	524-8097
604	Frank C Hubel			524-1310
605	Wayne E Vinyard		9	524-0268
606	Jim Sanders			524-2623
607	Richard Schramm			524-1058
608	Mary C Boyd		¤	524-0120
609	C W Turkington		7	524-3792
610	Deborah Smith		–	524-9382
	Stan Smith		¤	524-9382
611	Charles I Dick			524-2524
612	Virgil Osse		6	524-4334
613	Russell E Simmons		3	524-2765
615	B E Allen		4	525-0682
617	Michael L Mathews		3	524-6969
700	Anderson Long			524-4314
701	Greg B Hamilton		–	524-2228
	Richard A Pence		5	524-2235
702	D Black		2	524-2578
703			NP	
704	Jack D Burkhart		3	524-0893
705A			NP	
706	E D Gibson		0	524-1603
707	Ray Sumerby		3	524-6529
	½		NP	
	B Roy Criss		5	524-3308
708	Troy Franks		4	524-6997
709	Ben Graham		2	524-5978
710	Bruce Weston		0	524-2331
711	Claude Long			524-0712
712	Michael Roy			524-7352
713	Mrs Glenn Anson		2	524-1915
	Lela L Belcher		–	524-7342
	Helen Bell		5	524-9540
	Bernard V Lee Sr			524-4172
	K L Marshall		¤	524-8454
	Ron Settle		5	524-9581
	J N Williams		5	524-9585
714			NP	
800			NP	
802	John F Sewell		3	524-6044

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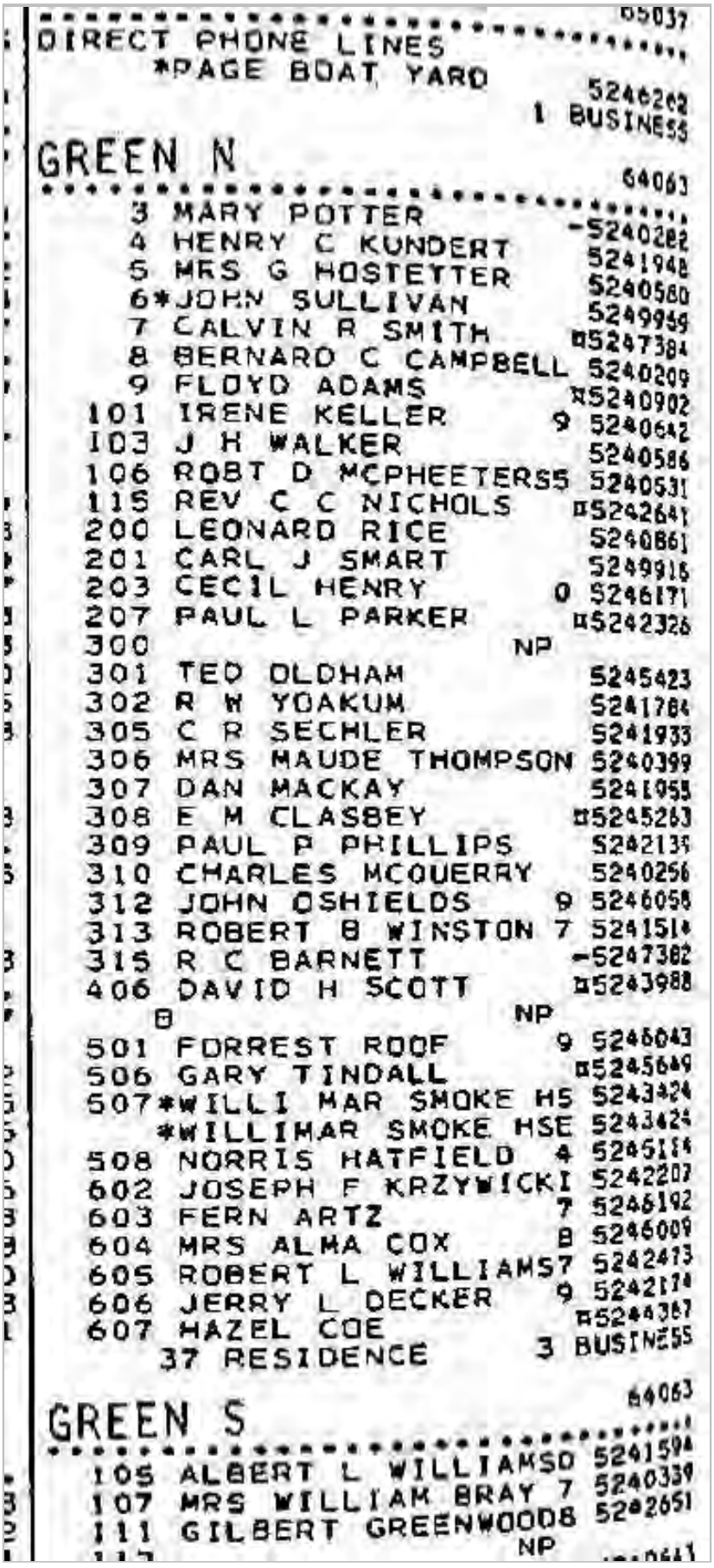
Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE GREEN ST 1972



DIRECT PHONE LINES
*PAGE BOAT YARD 5246262 1 BUSINESS

GREEN N 64063

3 MARY POTTER -5240282
4 HENRY C KUNDERT 5241948
5 MRS G HOSTETTER 5240580
6*JOHN SULLIVAN 5249959
7 CALVIN R SMITH ¤5247384
8 BERNARD C CAMPBELL 5240209
9 FLOYD ADAMS ¤5240902
101 IRENE KELLER 9 5240642
103 J H WALKER 5240586
106 ROBT D MCPHEETERS5 5240531
115 REV C C NICHOLS ¤5242641
200 LEONARD RICE 5240861
201 CARL J SMART 5249918
203 CECIL HENRY 0 5246171
207 PAUL L PARKER ¤5242326
300 NP
301 TED OLDHAM 5245423
302 R W YOAKUM 5241784
305 C R SECHLER 5241933
306 MRS MAUDE THOMPSON 5240399
307 DAN MACKAY 5241955
308 E M CLASBEY ¤5245263
309 PAUL P PHILLIPS 5242135
310 CHARLES MCQUERRY 5240256
312 JOHN OSHIELDS 9 5246058
313 ROBERT B WINSTON 7 5241514
315 R C BARNETT -5247382
406 DAVID H SCOTT ¤5243988
B NP
501 FORREST ROOF 9 5246043
506 GARY TINDALL ¤5245649
507*WILLI MAR SMOKE HS 5243424
*WILLIMAR SMOKE HSE 5243424
508 NORRIS HATFIELD 4 5245114
602 JOSEPH F KRZYWICKI 5242207
603 FERN ARTZ 7 5246192
604 MRS ALMA COX 8 5246009
605 ROBERT L WILLIAMS7 5242473
606 JERRY L DECKER 9 5242174
607 HAZEL COE ¤5244367
37 RESIDENCE 3 BUSINESS

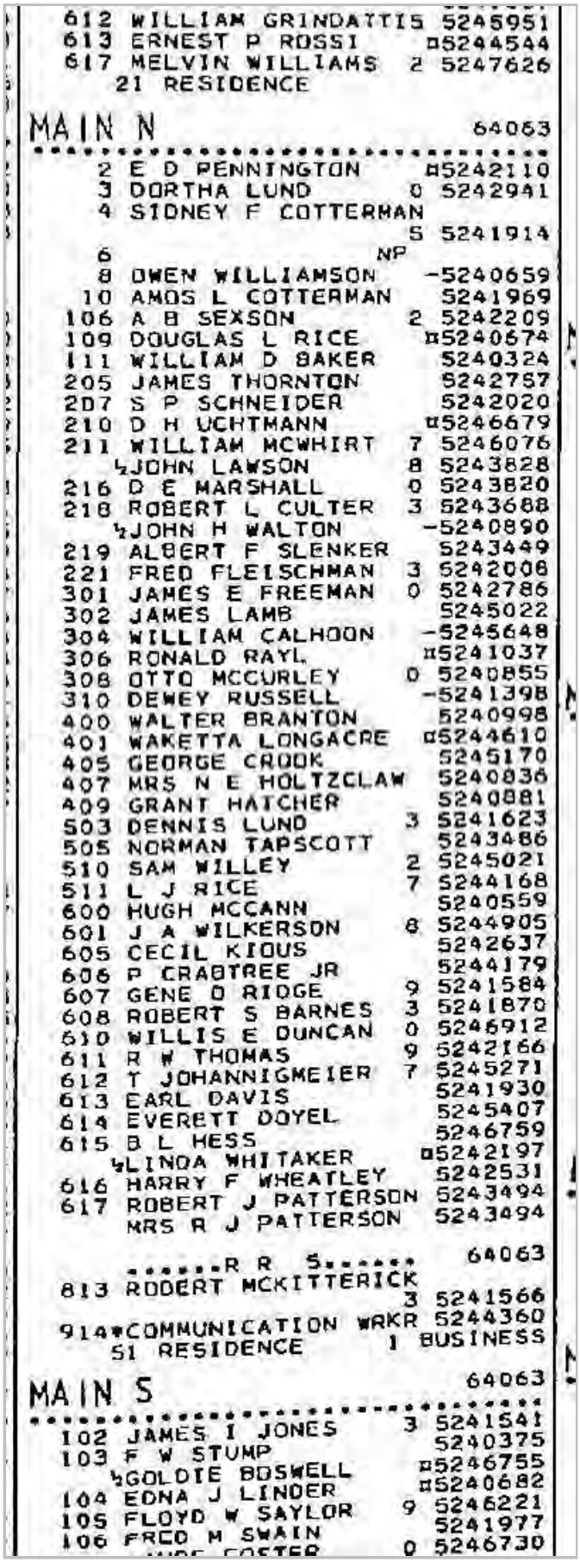
64063

GREEN S

105 ALBERT L WILLIAMSO 5241594
107 MRS WILLIAM BRAY 7 5240339
111 GILBERT GREENWOOD8 5242651
NP

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE MAIN ST 1972



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 612 WILLIAM GRINDATTIS 5245951
 613 ERNEST P ROSSI    ¤5244544
 617 MELVIN WILLIAMS  2 5247626
     21 RESIDENCE

MAIN N                      64063
*****************************
   2 E D PENNINGTON     ¤5242110
   3 DORTHA LUND        0 5242941
   4 SIDNEY F COTTERMAN
                        S 5241914
   6                  NP
   8 OWEN WILLIAMSON     -5240659
  10 AMOS L COTTERMAN     5241969
 106 A B SEXSON         2 5242209
 109 DOUGLAS L RICE     ¤5240674
 111 WILLIAM D BAKER      5240324
 205 JAMES THORNTON       5242757
 207 S P SCHNEIDER        5242020
 210 D H UCHTMANN       ¤5246679
 211 WILLIAM MCWHIRT    7 5246076
     ½JOHN LAWSON       8 5243828
 216 D E MARSHALL       0 5243820
 218 ROBERT L CULTER    3 5243688
     ½JOHN H WALTON       -5240890
 219 ALBERT F SLENKER     5243449
 221 FRED FLEISCHMAN    3 5242006
 301 JAMES E FREEMAN    0 5242786
 302 JAMES LAMB           5245022
 304 WILLIAM CALHOON     -5245648
 306 RONALD RAYL        ¤5241037
 308 OTTO MCCURLEY      0 5240855
 310 DEWEY RUSSELL       -5241398
 400 WALTER BRANTON       5240998
 401 WAKETTA LONGACRE   ¤5244610
 405 GEORGE CROOK         5245170
 407 MRS N E HOLTZCLAW    5240836
 409 GRANT HATCHER        5240881
 503 DENNIS LUND        3 5241623
 505 NORMAN TAPSCOTT      5243486
 510 SAM WILLEY         2 5245021
 511 L J RICE           7 5244168
 600 HUGH MCCANN          5240559
 601 J A WILKERSON      8 5244905
 605 CECIL KIOUS          5242637
 606 P CRABTREE JR        5244179
 607 GENE O RIDGE       9 5241584
 608 ROBERT S BARNES    3 5241870
 610 WILLIS E DUNCAN    0 5246912
 611 R W THOMAS         9 5242166
 612 T JOHANNIGMEIER    7 5245271
 613 EARL DAVIS           5241930
 614 EVERETT DOYEL        5245407
 615 B L HESS             5246759
     ½LINDA WHITAKER    ¤5242197
 616 HARRY F WHEATLEY     5242531
 617 ROBERT J PATTERSON   5243494
     MRS R J PATTERSON    5243494

     ******R R S******      64063
 813 ROBERT MCKITTERICK
                        3 5241566
 914*COMMUNICATION WRKR 5244360
     51 RESIDENCE       1 BUSINESS

MAIN S                      64063
*****************************
 102 JAMES I JONES      3 5241541
 103 F W STUMP            5240375
     ½GOLDIE BOSWELL    ¤5246755
 104 EDNA J LINDER      ¤5240682
 105 FLOYD W SAYLOR     9 5246221
 106 FRED M SWAIN         5241977
     MRS FOSTER         0 5246730
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Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

SE 2ND ST 1972

```
1007 TRUMAN HENRY          2 5240227
1008 HERBERT WALKER          5241012
1010 L LEE COCHRAN         5 5241848
1011 KENNETH L DNWILER     8 5246108
1012 GEORGE V WHOLF        3 5244070
1400 CHARLES OLEARY        3 5244709
1401 WILLIAM H MYERS JR    ¤5247356
1402 JAMES G JONES           5241036
1403 HERBERT BLY             5244348
1404 A L SLAVENS           9 5247517
1406 CARL T ANDERSON       9 5247324
1500 ROBERT E MORRISSEY      5244306
1502 MRS GLORIA ROGERS     -5244534
1503 WAYNE BROWN           9 5245546
1504 GORDON W CORN         6 5246793
1505 WAYNE ZIRKLE          7 5247064
1507 E N DEAN              7 5243451
1509 C M STAHL              -5241448
1510 KERMIT BOSLER           5241015
1511 DONALD R LEE          2 5245217
1512 HAROLD D JAMES         -5246667
1513 BERNITA WEBB          8 5245795
1514 CARL E STEVENS        8 5244103
1515 OMAR R DEJARNETT        5241991
1800 CLETA P SILVEY        8 5246578
1803 GENE COCHRAN          8 5243721
1804 L M CAMPBELL          0 5246059
     47 RESIDENCE

1ST TERR W                      64063
**********************************
 507 WANDA MOODY           4 5240405
 509 JOE N ALLISON         8 5244235
 511 SHELBY G NORTON       8 5244241
 602 DONALD L ROBINSON     3 5243355
 603 W G RINEHART           -5246228
 604                   NP
 605 RICHARD E LOFTIS      4 5241713
 607                   NP
 700A                  NP
     BCHARLES E CALLAWAY  ¤5247386
     10 RESIDENCE

2ND E                           64063
**********************************
   6*MOSER&ASSOCS           ¤5240183
   8*EAGLE CONSTRUCION       5247696
  10*PRO-PAK INC             ¤5240128
  14*LASU VIAN BTY SLN       5246999
  16*LAND CLEARANCE          5242509
    *URBAN RENEWAL           5242509
 108*LEES PUBLIC SCHLS       5243368
    *LEES PUBLIC SCHLS       5242402
    *LEES PUBLIC SCHLS       5242401
 111*JIM MURRAY INS          -5244355
    *STATE FARM INS CO       -5244355
 202 MRS ARTH BROWNINGO      5240553
 203*SUMMIT TRUCKING         5245933
 204 JERRY UHL              ¤5245530
 207                   NP
 209 PAULINE PINE          7 5245223
     4 RESIDENCE          12 BUSINESS

2ND W
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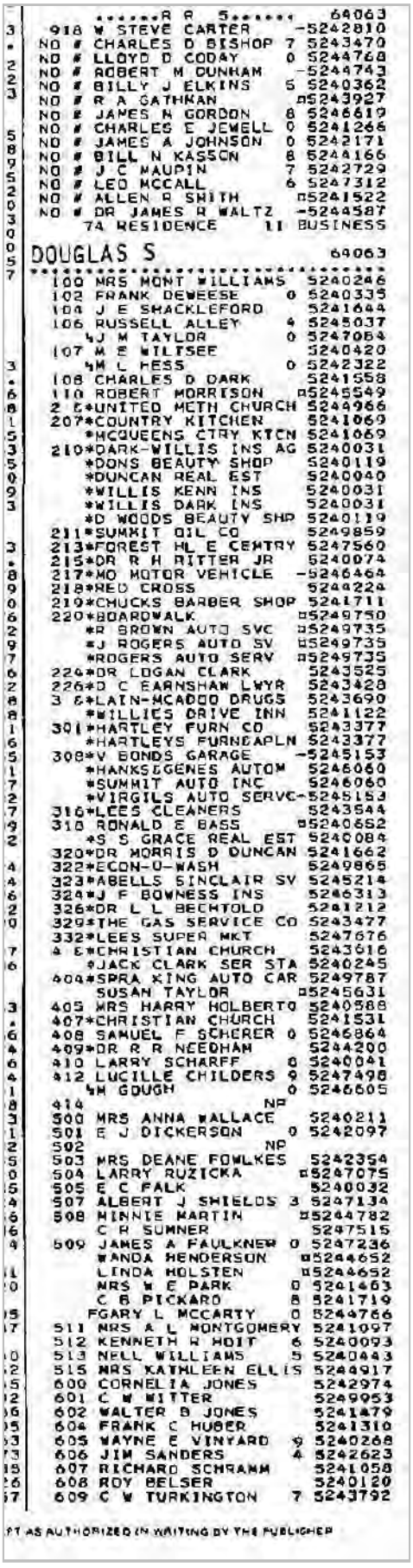
Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

SE DOUGLAS ST 1972



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                ******R R  S******          64063
  918 W STEVE CARTER                    -5242810
NO  # CHARLES D BISHOP                7 5243470
NO  # LLOYD D CODAY                    0 5244768
NO  # ROBERT M DUNHAM                  -5244743
NO  # BILLY J ELKINS                   5 5240362
NO  # R A GATHMAN                      #5243927
NO  # JAMES N GORDON                   8 5246619
NO  # CHARLES E JEWELL                 0 5241266
NO  # JAMES A JOHNSON                  0 5242171
NO  # BILL N KASSON                    8 5244166
NO  # J C MAUPIN                       7 5242729
NO  # LEO MCCALL                       6 5247312
NO  # ALLEN R SMITH                    #5241522
NO  # DR JAMES R WALTZ                 -5244587
      74 RESIDENCE                  11 BUSINESS

DOUGLAS S                               64063
**********************************************
  100 MRS MONT WILLIAMS                 5240246
  102 FRANK DEWEESE                     0 5240335
  104 J E SHACKLEFORD                     5241644
  106 RUSSELL ALLEY                     4 5245037
      HJ M TAYLOR                       0 5247084
  107 M E WILTSEE                         5240420
      HM L HESS                         0 5242322
  108 CHARLES D DARK                      5241558
  110 ROBERT MORRISON                   #5245549
  2 E*UNITED METH CHURCH                5244966
  207*COUNTRY KITCHEN                     5241069
      *MCQUEENS CTRY KTCN                 5241069
  210*DARK-WILLIS INS AG                5240031
      *DONS BEAUTY SHOP                   5240119
      *DUNCAN REAL EST                    5240040
      *WILLIS KENN INS                    5240031
      *WILLIS DARK INS                    5240031
      *D WOODS BEAUTY SHP                 5240119
  211*SUMMIT OIL CO                       5249859
  213*FOREST HL E CEMTRY                  5247560
  215*DR R H RITTER JR                    5240074
  217*MO MOTOR VEHICLE                  -5246464
  218*RED CROSS                           5244224
  219*CHUCKS BARBER SHOP                5241711
  220*BOARDWALK                         #5249750
      *R BROWN AUTO SVC                 #5249735
      *J ROGERS AUTO SV                 #5249735
      *ROGERS AUTO SERV                 #5249735
  224*DR LOGAN CLARK                      5243525
  226*D C EARNSHAW LWYR                   5243428
  3 E*LAIN-MCADOO DRUGS                 5243690
      *WILLIES DRIVE INN                  5241122
  301*HARTLEY FURN CO                     5243377
      *HARTLEYS FURNDAPLN                 5243377
  308*V BONDS GARAGE                    -5245153
      *HANKS&GENES AUTOM                  5246060
      *SUMMIT AUTO INC                    5246060
      *VIRGILS AUTO SERVC-                5245153
  316*LEES CLEANERS                       5243544
  318 RONALD E BASS                     #5240652
      *S S GRACE REAL EST                 5240084
  320*DR MORRIS D DUNCAN                5241662
  322*ECON-O-WASH                         5249865
  323*ABELLS SINCLAIR SV                5245214
  324*J F BOWNESS INS                     5246313
  326*DR L L BECHTOLD                     5241212
  329*THE GAS SERVICE CO                5243477
  332*LEES SUPER MKT                      5247676
  A E*CHRISTIAN CHURCH                    5243616
      *JACK CLARK SER STA                 5240245
  404*SPRA XING AUTO CAR                5249787
      SUSAN TAYLOR                      #5245631
  405 MRS HARRY HOLBERTO                5240588
  407*CHRISTIAN CHURCH                    5241531
  408 SAMUEL F SCHERER                  0 5246864
  409*DR R R NEEDHAM                      5244200
  410 LARRY SCHARFF                     6 5240041
  412 LUCILLE CHILDERS                  9 5247498
      HM GOUGH                          0 5246605
  414                                 NP
  500 MRS ANNA WALLACE                    5240211
  501 E J DICKERSON                     0 5242097
  502                                 NP
  503 MRS DEANE FOWLKES                   5242354
  504 LARRY RUZICKA                     #5247075
  505 E C FALK                            5240032
  507 ALBERT J SHIELDS                  3 5247134
  508 MINNIE MARTIN                     #5244782
      C R SUMNER                          5247515
  509 JAMES A FAULKNER                  0 5247236
      WANDA HENDERSON                   #5244652
      LINDA HOLSTEN                     #5244652
      MRS W E PARK                      0 5241463
      C B PICKARD                       8 5241719
      FGARY L MCCARTY                   0 5244766
  511 MRS A L MONTGOMERY                5241097
  512 KENNETH R HOIT                    6 5240093
  513 NELL WILLIAMS                     5 5240443
  515 MRS KATHLEEN ELLIS                5244917
  600 CORNELIA JONES                      5242974
  601 C W WITTER                          5249953
  602 WALTER B JONES                      5241479
  604 FRANK C HUBER                       5241310
  605 WAYNE E VINYARD                   9 5240268
  606 JIM SANDERS                       4 5242623
  607 RICHARD SCHRAMM                     5241058
  608 ROY BELSER                          5240120
  609 C W TURKINGTON                    7 5243792

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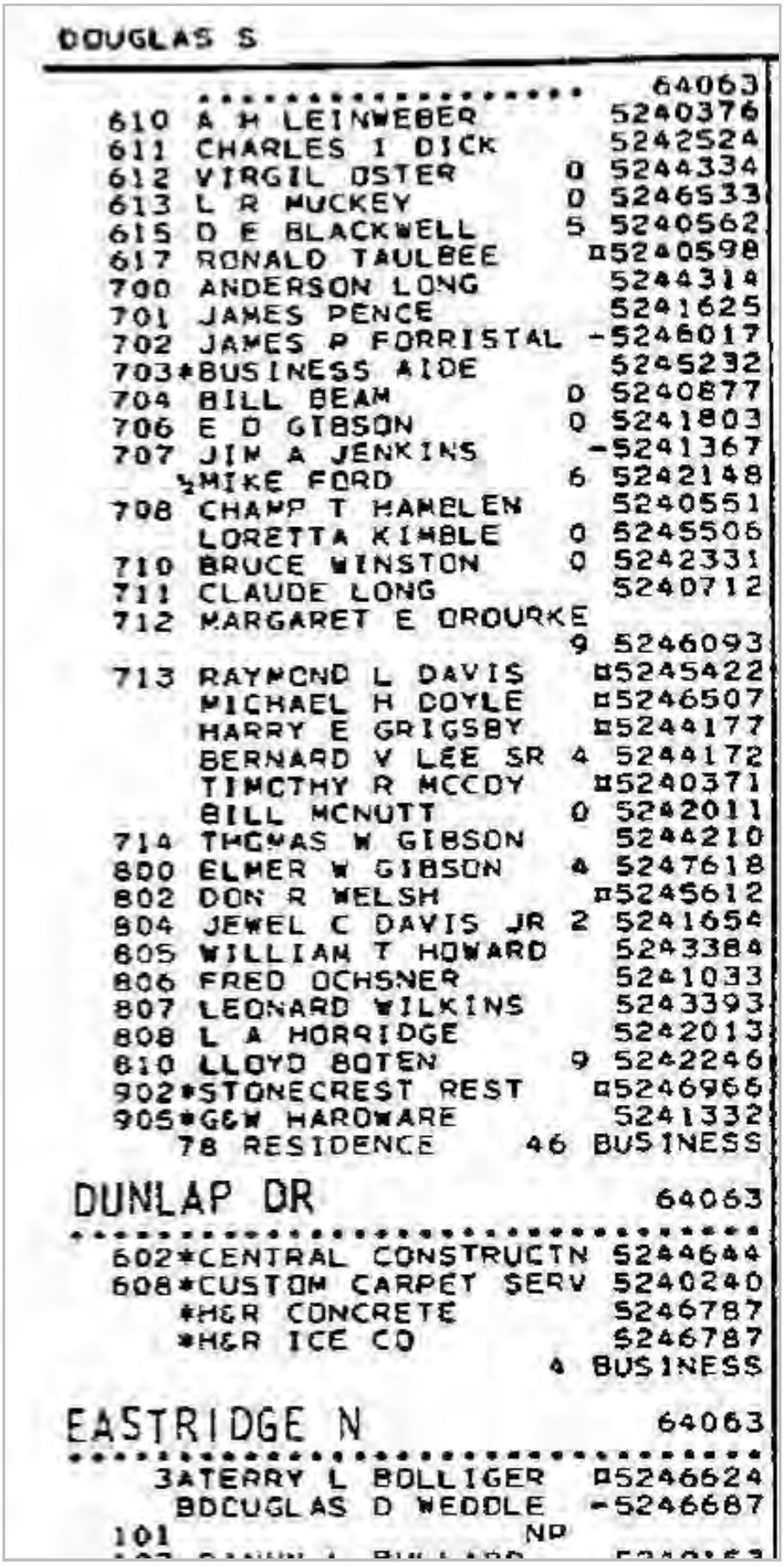
Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

SE DOUGLAS ST 1972



DOUGLAS S

	.....			64063
610	A H LEINWEBER			5240376
611	CHARLES I DICK			5242524
612	VIRGIL OSTER		0	5244334
613	L R MUCKEY		0	5246533
615	D E BLACKWELL		5	5240562
617	RONALD TAULBEE			¤5240598
700	ANDERSON LONG			5244314
701	JAMES PENCE			5241625
702	JAMES P FORRISTAL			-5246017
703	*BUSINESS AIDE			5245232
704	BILL BEAM		0	5240877
706	E D GIBSON		0	5241803
707	JIM A JENKINS			-5241367
	½MIKE FORD		6	5242148
708	CHAMP T HAMBLEN			5240551
	LORETTA KIMBLE		0	5245506
710	BRUCE WINSTON		0	5242331
711	CLAUDE LONG			5240712
712	MARGARET E OROURKE			
			9	5246093
713	RAYMOND L DAVIS			¤5245422
	MICHAEL H DOYLE			¤5246507
	HARRY E GRIGSBY			¤5244177
	BERNARD V LEE SR		4	5244172
	TIMOTHY R MCCOY			¤5240371
	BILL MCNUTT		0	5242011
714	THOMAS W GIBSON			5244210
800	ELMER W GIBSON		4	5247618
802	DON R WELSH			¤5245612
804	JEWEL C DAVIS JR		2	5241654
805	WILLIAM T HOWARD			5243384
806	FRED OCHSNER			5241033
807	LEONARD WILKINS			5243393
808	L A HORRIDGE			5242013
810	LLOYD BOTEN		9	5242246
902	*STONECREST REST			¤5246966
905	*G&W HARDWARE			5241332
	78 RESIDENCE	46		BUSINESS

DUNLAP DR 64063

602	*CENTRAL CONSTRUCTN			5244644
608	*CUSTOM CARPET SERV			5240240
	*H&R CONCRETE			5246787
	*H&R ICE CO			5246787
			4	BUSINESS

EASTRIDGE N 64063

	3ATERRY L BOLLIGER			¤5246624
	BDOUGLAS D WEDDLE			-5246687
101		NP		

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-	✓	Cole Criss-Cross Directory

NE GREEN ST 1967

FOREST W 64063

8 CLAUDE F BARNES 1 LA43468
11 VIRGINIA S YATES BR10669
12 CHARLES POWELL 1 BR10476
3 RESIDENCE

FRANCES 64063

2605 CAROLYN PARKS BR15326
2606 MAXINE DAVIDSON 5 LA44372
2607 LARRY D HEATHERLY BR11621
2608 TRAVIS C BUTT LA47653
RICHARLES A RICHEY BR15681
2609 DONALD ELKO BR15672
2610 D GLENDENING BR10920
DONALD BOHS BR15624
2611 HAROLD RADEN BR15339
2612 WARD GARRISON LA47519
2613 C M HOEKMAN LA44207
DR A OLIVER JR BR10205
2615 DARLENE WEAST 2 LA45782
FLOYD COOK BR14610
14 RESIDENCE

FRANCIS RD 64063

402 JAMES C HEDRICK 1 LA41140
402 LLOYD LONG 1 LA43586
502 H W BATTMER 1 BR10453
503 W KENT LARSEN 2 LA44038
504 WOODSON J JOINER 5 LA44197
505 HAROLD DEJARNETTE 4 LA44203
RUTH SIMEL 4 LA44203
506 LEO E KUNARD 1 BR12710
507 JOHN W STOLL 1 LA43589
509 VIRGIL L COLE 1 LA43547
509 JIM BRASWELL 6 BR10071
511 KENNETH WRIGHT 3 BR15420
512 E J HARALSON 4 LA44108
513 ROBERT K HEDGES BR11770
514 ROBERT L NICHOLS 6 BR14567
515 BOB LAUGHLIN 3 LA42593
516 JOSEPH S THORNTON 1 LA43933
517 DONALD E SMITH 1 BR11869
518 ITRICE E EUBANKS LA43750
519 KENNETH SMITH 1 BR10795
520 JOSEPH J SCHULTZ LA47583
21 RESIDENCE

GARDEN DR

9425 WILLIAM M MILLER 1 BR12514
1 RESIDENCE

GEORGE RD

NO # ELLSWORTH LILLY 1 BR11055
1 RESIDENCE

GIBSON RD 64063

601 JAMES B COX 1 LA41187
602 ELSWORTH L FLIPPIN BR15332
603 WILLIAM W RONEY BR15650
604 DEAN CLASBEY JR 6 BR14525
605 CLIFFORD L ARGNOS 2 BR14636
607 GERALD L GARFIELD LA47146
608 BILL KELLEY 4 LA47445
609 BILLY D MURRAY BR10922
610 JERRY WOLFSKILL 6 BR10174
DWN F WHITTINGTON 6 LA43568
611 EMERSON BUNCH LA43934
612 LOREN CATES BR14775
613 GARY DOUGLAS WOOD BR12029
SR FORREST COOPER BR15474
10 RESIDENCE

GRAND N 64063

306 RICHARD T ROOD 4 BR12766
309 MAYNARD SMITH 1 BR12265
310 MRS MAY SHELDON 1 LA43346
401 EARL COOK 6 BR11456
402 STANLEY R JAGGARS BR15437
403 WILLIAM M BROWN LA47120
404 PAUL L YOUNG 1 BR12751
405 MRS EDWARD C DELTZ BR11050
406 LARRY A SHATAS 6 BR15231
407 DONALD HODGES 2 LA45027
10 RESIDENCE

GRAND S 64063

102 ASA SPEARS 3 BR10791
110 MRS VIOLA BROWNING 1 LA47486
112 JACKIE L SIMPSON LA44313
114 MRS JOHN M DUNKIN BR11061
116 MRS F E SPURCK 2 BR15543
200 ANDY WOLFE 1 BR11920
201 F M BOGNER 5 BR11858
209 G C HAVENHILL 1 BR12138
210 LEON R CUENI 6 LA44277
211 MRS RUTH CARNAHAN BR11024
212 MIKE ANGELBECK BR11791
213 JERRY L DYKE LA47604
215 MRS MARY LAWRENCE BR11610
311 JERRY A MCGINLEY BR10232
MARGARET LANGSFORD 1 LA43722
315 MANFORD NEALY 1 LA45065
401 ED STUART 1 BR11697
405 RICHARD J WAIT LA41159
407 STEWART L BLACK 3 LA45177
409 MRS L R NORFLEET 6 LA43761
ROBERT M NORFLEETS LA43761
411 MRS S E HUNT 1 BR11427
415 RALPH BURGEN BR10126
MRS BERTHA M BELL 1 LA44216
24 RESIDENCE

GREEN N 64063

3 EDWARD LAVERY 1 LA43898
4 HENRY C KUNDERT 1 BR11948
5 MRS G MOSTETTER 1 BR10580
6 SULLIVAN REFRGTN LA49969
7 WINT E SMITH LA47021
8 BERNARD C CAMPBELL 1 BR10209
9 GEORGE PENCIL 3 LA43924
101 MRS JEWEL HAMMOND 4 BR10788
103 J H WALKER 1 BR10586
106 R D MCPHEETERS 5 BR10531
115 A C BOWEN 6 LA43756

200 LEONARD RICE 1 BR10861
201 CARL J SMART 1 LA49916
203 TED M WHITING BR10338
204 RICHARD E REYNOLDS 4 BR15374
207 J C BUILDERBACK BR15569
300 CHESTER KING 6 BR10639
301 TED OLDHAM BR15423
302 R W YOAKUM 1 BR11764
305 C R SECHLER 1 BR11933
306 MRS MAUDE THOMPSON 1 BR10309
307 DAN MACKAY 1 BR11958
308 CECIL HENRY 5 BR11919
309 PAUL P PHILLIPS 1 BR12139
310 CHARLES MCQUERRY 1 BR10256
312 P KAISER BR11542
313 ROBERT B WINSTON BR11814
315 A C HIBDON BR14616
406 CARL W SIMMONS 6 LA47591
RICHARD L MART LA44371
408 M H MAZLETT JR 4 BR14726
501 MRS E V ANDERSON 5 BR11651
507 WILLIAR MEAT PLNT LA43424
508 NORRIS HATFIELD 4 LA45114
600 STONE WEBB 1 BR11397
602 JOSEPH F KRZYWICKI 1 BR13207
603 FREDA R GRIMSHAW BR12449
FERN ARTZ LA45102
604 WALTER MERRITT 1 BR11460
605 ROBERT L WILLIAMS BR12473
606 F B OBERWEATHER 1 LA43491
607 JOHN W EAGER 6 BR10230
40 RESIDENCE 2 BUSINESS

GREEN S 64063

107 MRS WILLIAM BRAY BR10339
108 J E WEAZLE BR12069
111 MRS W F FLINN BR10846
113 MRS J W OVERMAN 1 LA44150
115 MRS ALAN A TAYLOR 5 BR12643
117 DEMARIS CARTER 6 BR15561
201 MANLEYS LA44102
MANLEYS FURN LA44102
205 ROYAL BRDKRG CO LA46500
213 JACK JAMES SR 1 BR11360
306 LEES LAUNDRY BR19877
311 FRED DIEHL 1 BR11793
312 SHOE HOSPITAL BR10156
315 MRS LEE GARVIN 1 BR10322
320 TODD M GEORGE 1 BR13247
324 DORSEY WEST 1 BR12054
326 T M CARROLL 1 BR11797
330 MRS LYLE B MCCABY 1 BR10797
400 MRS FLORA COLBERN BR12817
402 IZZA WHIPPLE 4 BR11930
404 C T BOGGS 1 BR11347
410 W L WILSON 1 BR12072
412 VIRGIL A GOODMAN LA47182
5 EPISCOPAL CHURCH LA43651
ST PAULS EPISC CH LA43651
500 KENNETH CLEVENGERS BR10653
CHARLES W RICE LA47484
STEVE R RICE LA47484
501 GAEL RANSEY 2 BR14625
502 DONALD LAWRENCE 1 BR11946
503 JOHN GREEN 1 LA47608
505 MRS R C FIELDS 1 LA44173
506 WILLIAM HEYLE BR11464
507 J H GENNIE 1 BR10946
508 MRS H FIELDS SR 1 BR10100
509 DON RATLIFF BR12224
511 M PATRICIA FIELDS BR10864
512 HOLLIS HARTLEY 1 BR10941
600 D L ROBERTS 6 BR11642
601 MRS R G HADDUX 1 LA43996
602 PHYLLIS ACKLEY 6 LA44257
603 BURRY TRUCK LINE LA43575
605 WOBERT MELLING 1 BR12086
606 GROVER C SEYMOUR 2 LA41156
607 MRS PAUL R BELCHER 1 BR10572
608 REV G GREENWAY JR6 BR11313
610 LEWIS A WALLACE 1 LA41127
611 THOMAS SANTAMARIA LA41162
612 JOHN H MALLETT 6 LA44948
614 L W HAVENS 1 BR10196
616 FRED MILLER BR11769
618 C J BELL JR 4 LA45062
702 M OLIVER ASP 1 BR11201
704 BILLY MCCARTNEY BR12060
B J BLEIER 1 LA40094
705 THOMAS REAL EST LA40084
W B THOMAS 1 LA40084
707 FLOYD C MCBURNEY 4 BR12728
709 ROBERT T GRIMSLEY 1 LA47262
709 HERBERT C WEST JR1 BR10739
710 G H TRIGG 1 LA44906
711 ROBERT C MEDBERG 3 LA43771
712 THERON O MILLER 4 BR14528
713 EGTA B TREASURE 2 BR12876
714 JOHN N SWEARNGIN 6 BR10379
56 RESIDENCE 9 BUSINESS

GREENWOOD MO 64034

DIRECT PHONE LINES
COXS UPHOLSTERY 6 LA45965
1 RESIDENCE

GULFPORT AVE

1400 W C FAGAN LA41107
1401 R W BRIERLEY 6 LA47666
1403 WILLIAM D BIXLER 6 LA43896
1404 HOWARD L DOCTOR 6 LA47180
1409 C L CURL LA45084
5 RESIDENCE

GULFPORT CIR 64063

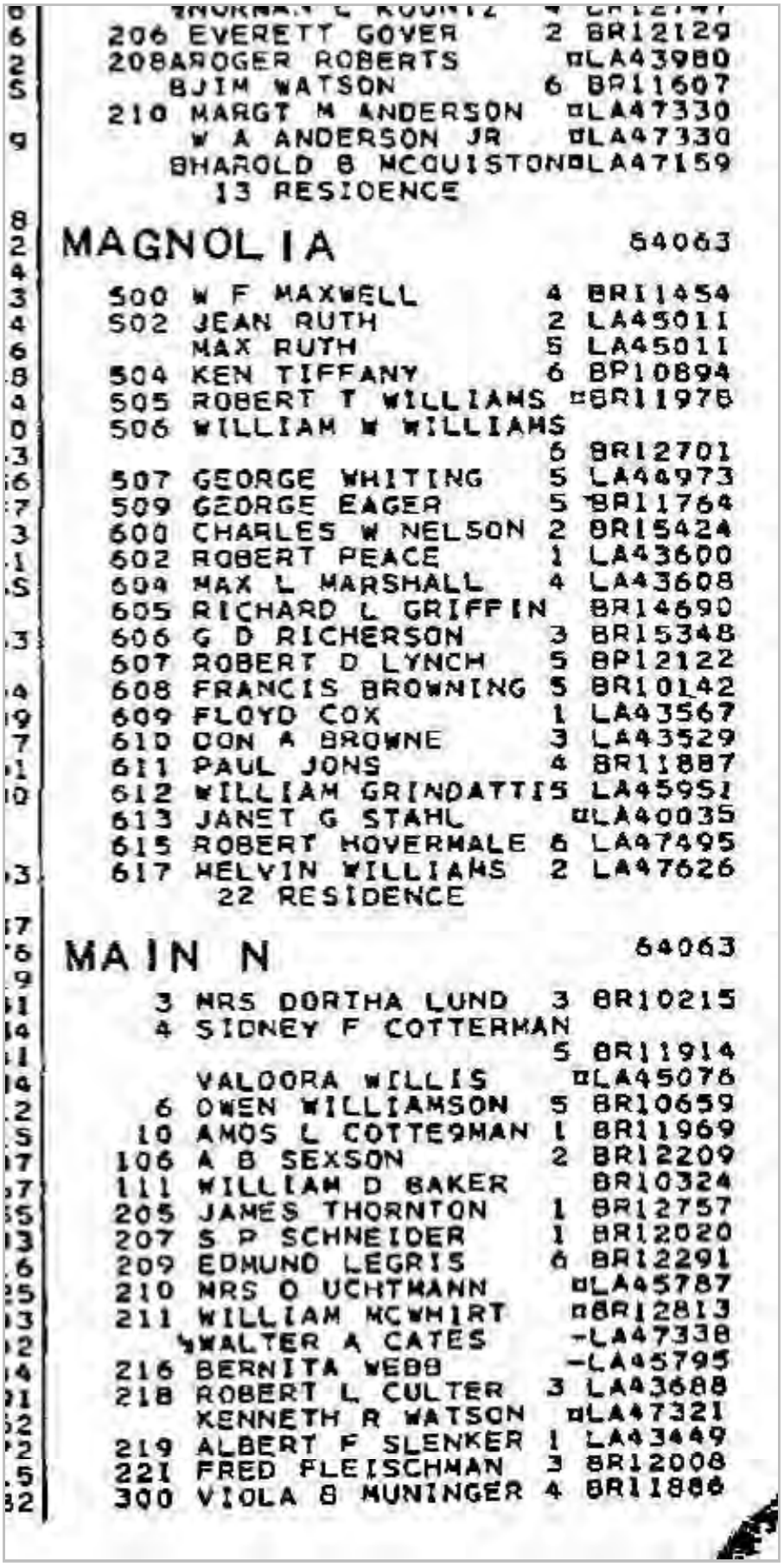
607 FRANK THOMPSON BR11001
610 DONALD H KELLEY SR LA47528
610 H G JAY LA47233
612 WILLIAM B MATHEWS BR10428
615 ROBERT D GRAY 6 LA45386
617 CLABORN GRANTS 6 LA47239
702 JACK WEST LA43749
705 7 RESIDENCE

HAGAN RD

[illegible] R W S[illegible] 64063
8712 ROBERT S PARK 4 LA44963
8718 WILLIAM H MYERS 3 LA41184
NO # EARL ADKINS 6 LA45835
NO # FRANKLIN D BAKER LA47632
NO # GEORGE A BAKER LA47004
NO # WILLIAM L DONNELLY 1 BR12932
NO # ROLAND B FRAZIER 1 BR10471
NO # JAMES E IVEY 4 LA44967
NO # W C PARKER 1 BR11677

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE MAIN ST 1967



206 EVERETT GOVER 2 BR12129
208AROGER ROBERTS ¤LA43980
BJIM WATSON 6 BR11607
210 MARGT M ANDERSON ¤LA47330
W A ANDERSON JR ¤LA47330
9HAROLD B MCQUISTON¤LA47159
13 RESIDENCE

MAGNOLIA 64063

500 W F MAXWELL 4 BR11454
502 JEAN RUTH 2 LA45011
MAX RUTH 5 LA45011
504 KEN TIFFANY 6 BP10894
505 ROBERT T WILLIAMS ¤BR11978
506 WILLIAM M WILLIAMS
6 BR12701
507 GEORGE WHITING 5 LA44973
509 GEORGE EAGER 5 BR11764
600 CHARLES W NELSON 2 BR15424
602 ROBERT PEACE 1 LA43600
604 MAX L MARSHALL 4 LA43608
605 RICHARD L GRIFFIN BR14690
606 G D RICHERSON 3 BR15348
607 ROBERT D LYNCH 5 BP12122
608 FRANCIS BROWNING 5 BR10142
609 FLOYD COX 1 LA43567
610 DON A BROWNE 3 LA43529
611 PAUL JONS 4 BR11887
612 WILLIAM GRINDATTIS LA45951
613 JANET G STAHL ¤LA40035
615 ROBERT HOVERMALE 6 LA47495
617 MELVIN WILLIAMS 2 LA47626
22 RESIDENCE

MAIN N 64063

3 MRS DORTHA LUND 3 BR10215
4 SIDNEY F COTTERMAN
5 BR11914
VALDORA WILLIS ¤LA45076
6 OWEN WILLIAMSON 5 BR10659
10 AMOS L COTTEGMAN 1 BR11969
106 A B SEXSON 2 BR12209
111 WILLIAM D BAKER BR10324
205 JAMES THORNTON 1 BR12757
207 S P SCHNEIDER 1 BR12020
209 EDMUND LEGRIS 6 BR12291
210 MRS O UCHTMANN ¤LA45787
211 WILLIAM MCWHIRT ¤BR12813
½WALTER A CATES -LA47338
216 BERNITA WEBB -LA45795
218 ROBERT L CULTER 3 LA43688
KENNETH R WATSON ¤LA47321
219 ALBERT F SLENKER 1 LA43449
221 FRED FLEISCHMAN 3 BR12008
300 VIOLA B MUNINGER 4 BR11886

Target Street	Cross Street	Source
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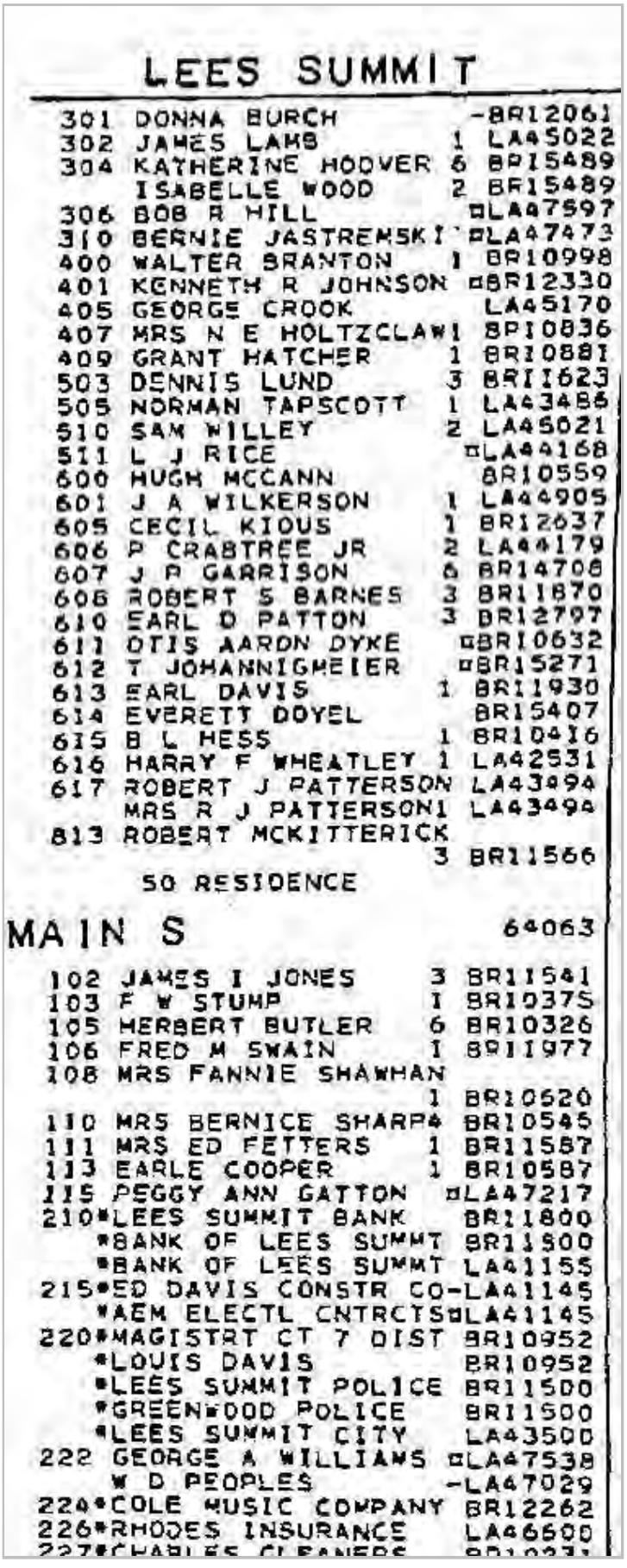
NE MAIN ST 1967



LEES SUMMIT

301	DONNA BURCH		-BR12061
302	JAMES LAMB	1	LA45022
304	KATHERINE HOOVER	6	BR15489
	ISABELLE WOOD	2	BR15489
306	BOB R HILL		¤LA47597
310	BERNIE JASTREMSKI		¤LA47473
400	WALTER BRANTON	1	BR10998
401	KENNETH R JOHNSON		¤BR12330
405	GEORGE CROOK		LA45170
407	MRS N E HOLTZCLAW	1	BR10836
409	GRANT HATCHER	1	BR10881
503	DENNIS LUND	3	BR11623
505	NORMAN TAPSCOTT	1	LA43486
510	SAM WILLEY	2	LA45021
511	L J RICE		¤LA44168
600	HUGH MCCANN		BR10559
601	J A WILKERSON	1	LA44905
605	CECIL KIOUS	1	BR12637
606	P CRABTREE JR	2	LA44179
607	J P GARRISON	6	BR14708
608	ROBERT S BARNES	3	BR11870
610	EARL D PATTON	3	BR12797
611	OTIS AARON DYKE		¤BR10632
612	T JOHANNIGMEIER		¤BR15271
613	EARL DAVIS	1	BR11930
614	EVERETT DOYEL		BR15407
615	B L HESS	1	BR10416
616	HARRY F WHEATLEY	1	LA42531
617	ROBERT J PATTERSON		LA43494
	MRS R J PATTERSON	1	LA43494
813	ROBERT MCKITTERICK	3	BR11566

50 RESIDENCE

MAIN S 64063

102	JAMES I JONES	3	BR11541
103	F W STUMP	1	BR10375
105	HERBERT BUTLER	6	BR10326
106	FRED M SWAIN	1	BR11977
108	MRS FANNIE SHAWHAN	1	BR10620
110	MRS BERNICE SHARP	4	BR10545
111	MRS ED FETTERS	1	BR11587
113	EARLE COOPER	1	BR10587
115	PEGGY ANN GATTON		¤LA47217
210	*LEES SUMMIT BANK		BR11800
	*BANK OF LEES SUMMT		BR11500
	*BANK OF LEES SUMMT		LA41155
215	*ED DAVIS CONSTR CO		-LA41145
	*AEM ELECTL CNTRCTS		¤LA41145
220	*MAGISTRT CT 7 DIST		BR10952
	*LOUIS DAVIS		BR10952
	*LEES SUMMIT POLICE		BR11500
	*GREENWOOD POLICE		BR11500
	*LEES SUMMIT CITY		LA43500
222	GEORGE A WILLIAMS		¤LA47538
	W D PEOPLES		-LA47029
224	*COLE MUSIC COMPANY		BR12262
226	*RHODES INSURANCE		LA46600
227	*CHARLES CLEANERS		BR10231

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

SE 2ND ST 1967

1ST E

2 SARAH SPENCER 2 BR10888
5 J MERLE GISH 6 BR11985
105 MRS RUBY MOORE 3 BR10930
107 JOHN F MCLAREN 6 BR12847
108 THERESA CALLAGHAN 1 BR10188
GARY L COX -BR12732
109 CHESTER GARRETT 3 BR10306
110 SARA KING ▫LA47468
ROBERT L ▪ORSTELL 6 LA43398
111 NEALE SIEVERS 1 BR10675
200 MRS E F CLEMENTS LA43915
201 LEE YOUNCE ▫BR11951
202 ROBERT P BUNYARD ▫BR11475
203 CHAS E DUNNINGTON -LA45103
204 THOMAS BROWN -BR10396
J E MCKINLEY ▫BR15510
205 MRS RAY B DAVIS 1 BR10440
206▪MAUREENS BTY SALON 6 BR12700
MRS EUGENE KELLY 1 BR12700
208 ELMER E BAILEY 1 BR12290
209½LAVENIA TERRY ▫LA44249
250 MRS G B WRIGHT 1 BR10440
300 CHARLES F ALDRICH 1 BR11258
302 W J COPELAND 1 BR10347
303 ANN BURKHART 6 BR11967
306 CHAS P CLEVELAND 1 LA41124
308 B W WILLIAMSON 1 BR10520
309 MRS P ▪ESTERFIELD 1 BR10690
310 DEAN TAYLOR 1 BR12666
311 MRS J SAUNDERS 1 BR11037
29 RESIDENCE 1 BUSINESS

1ST W 64063

100 THOMAS C JOHNSON 6 BR10689
102 LEWIS DECLERCK 1 LA44974
103 JAKE WHITTON 1 BR10627
104 ANNIE E ATKINS 1 BP11399
300 JIM MURRAY 2 BR10711
400 LLOYD JEFFREY 1 BR10317
402 WM R MCCUBBINS 5 BR12849
404 CHARLES W SORDEN 1 BP10924
406 MRS DELLA KIBBY 1 BR11812
408 ROY W ALFORD 1 BR10705
410 ERMEL HAMILTON 3 BR11263
700A RALPH K OMENSKI -LA46698
1001▪GARRISON HILL INVS LA43443
1002 MRS L L WARFORD 2 BR10908
1003 HARRY W REEVES 2 LA43531
1004 A B FIELD 1 BP10577
1005 DR WAYNE A BELSER 3 LA44182
1006 OWEN R HILL 3 BP11215
1007 TRUMAN HENRY 2 BR10227
1008 HERBERT WALKER 1 BR11012
1009 EDWARD A BUTLER 1 LA44215
1010 L LEE COCHRAN 5 BR11848
1011 JOHN UHLENHAKE -BR15541
1012 GEORGE V ▪HOLP 3 LA44070
1400 CHARLES OLEARY 3 BR14709
1401 M J HOOK -LA47576
1402 JAMES G JONES 1 BR11036
1403 HERBERT BLY LA44348
1404 KENNETH FUNSTON 6 BR10904
1500 ROBERT E MORRISSEY 1 LA44306
1501 GEORGE R RAY 6 BP11356
1502 WILLIAM L MCMULLEN 2 BR12165
1504 GORDON W CORN 6 BR10525
1505 WAYNE ZIRKLE ▫LA47064
1507 E M DEAN ▫LA43451
1509 N F ANGLIN 1 LA49937
1510 KERMIT BOSLER BR11015
1511 DONALD R LEE 2 BR15217
1512 THOS SWEARINGEN ▫BR12157
1513 EDWARD SAVAGE 1 LA43367
1514 WILLIS EPPERSON 6 LA47596
1515 OMAR R DEJARNETT 1 BP11991
1800 JAMES W CAMPBELL -BR11897
42 RESIDENCE 1 BUSINESS

1ST TERR W 64063

307 WANDA MOODY 4 BR10405
309 DONALD O CAIN 6 BR12269
312 S ELMER ERISMAN 5 LA40063
602 DONALD L ROBINSON 3 LA43356
603 A F HOOPER ▫BR10179
604 MRS A R LANDAHL 3 LA44212
605 RICHARD E LOFTIS 4 BR11713
607 DELBERT SMITH -BR15639
8 RESIDENCE

2ND E 64063

8▪EAGLE CONSTR CO ▫LA47696
10▪LOGAN TOOL&DIE ▫LA49934
14▪LIBERTY LOAN LA42580
16▪BAYS PRINTNG&ADVTG ▫LA41131
102 NOAH J ADAMS ▫BR11286
108▪LEES PUBLIC SCHLS BR12401
▪LEES PUBLIC SCHLS BR12402
▪LEES PUDLIC SCHLS LA43368
207 MRS LOUISE G RIVAS ▫LA47345
209 PAULINE PINE -BR15225
3 RESIDENCE 7 BUSINESS

2ND W 64063

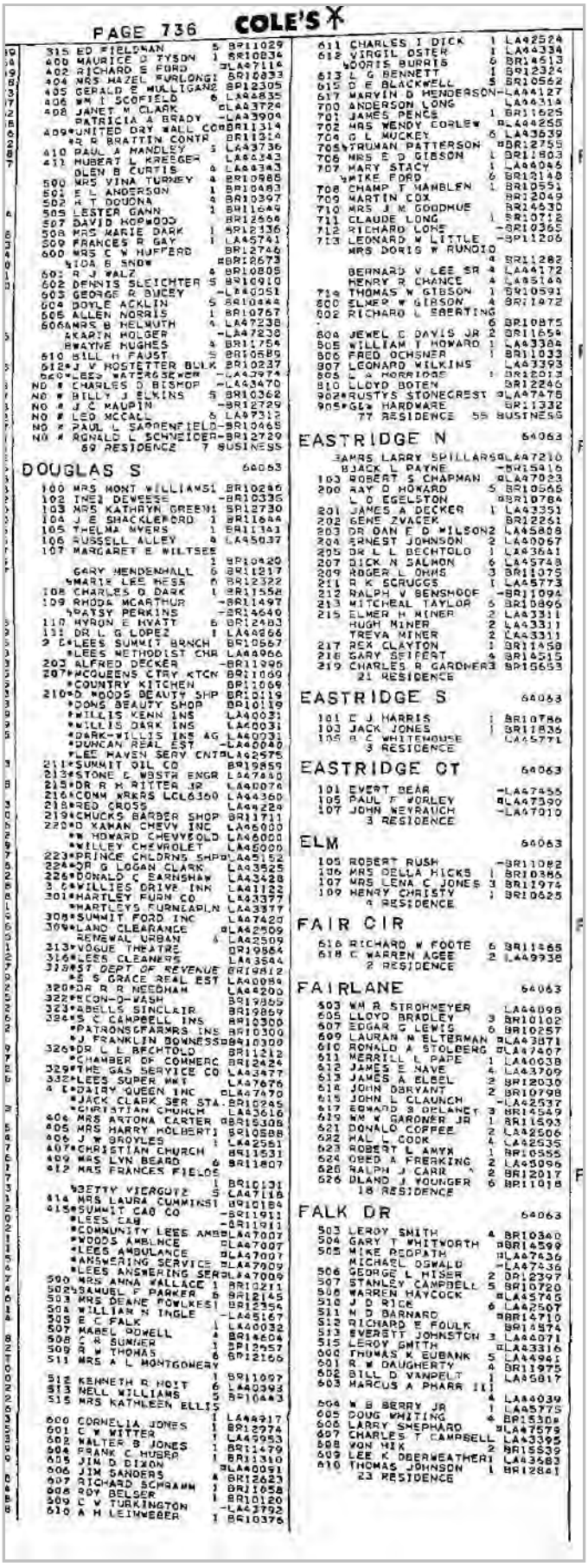
2▪WOODS MONTGMERY BR10325
3▪KELLEYS DONUT SHOP ▫BR15550
4 MRS E I GREEN▪OCD 1 LA43554
6 TROY H LAY 6 LA47399
100 MRS PAUL E PALMER 1 BR11611
104 FRED R ▪EBBER 3 BR10612
111 L W HOPKINS 1 BR11495
200 WAYNE HESSENFLOW 3 LA47565
202 HAROLD B HARTLEY 1 BR10759
203 JAMES W COTTER 2 BP14725
204 ROGER JURGENSMEYER 6 LA44142
½MRS T C HOWARD 1 BR11493
303 MRS DONNA L PEERY 5 BR11218
FRED H PEERY 5 BR11815
305 GEORGE E HALLEY 1 LA43579
309 WHEELER MARTIN 1 BR10224
404 ELWOOD LENTZ BR12419
500 MRS D R ALLEY 6 LA42560
502 BOB H EVATT 4 BR10183
503 ROBERT W JONES 1 BR11422
506 O D MERRIFIELD 2 BP14723
508 CLYDE H CURTIS 1 LA41191
509 ARTHUR BERRIER 1 BR10714
510 JAMES R FORBES 1 LA43584
511▪SYLVIAS BTY SLN ▫LA44333
MARION F SHAW 4 LA44333
512 ROBERT E MCNEILL 1 BR11780
513 CHARLES T MOORE 2 BR15410
600 ROD MOREN -LA43328
602 LYLE NEASE 3 LA44099
604 ROY W THOMPSON 2 LA45015
606 DON KELLEY JR 2 LA40026
608 MRS ALICE LENTZ 4 BR10152
1601 CHARLES A MOSS 3 BR11480
1602 THOMAS N HOPPER 3 BR15499
1603 MONTY SPRINGER 3 LA42592
1604 RICHARD A WITHERS 1 LA43715
1605 DON STRICKLAND 4 LA40039
1606 KENNETH KENDRICK 5 LA47091
1607 RUSSELL HAYNIE 3 BR15352
1608 JIM SKELTON ▫LA47199
1700 FRANK W LOWE 6 LA47193
1702 JAMES SYKES 5 LA44271
1704 P WISNIEWSKI 2 LA40027
TOM WISNIEWSKI LA40027
1706 LEN R HOWARD -BR12639
1708 WILLIAM L WOODS 3 LA45183
1710 THOMAS FARNLOF 4 LA43318
1932▪HILL REALTY CO ▫LA44100
45 RESIDENCE 4 BUSINESS

3RD E 64063

3▪DR LOUIS R PESKIN BR11844
▪EDW LAVERY LWYR LA43408
▪DR PHILIP SAPER LA44116
5▪EDS JEWELRY BR10915
7▪BILL M STEVICK LA47474
9▪DAYTON HOTEL BR10144
LAWRENCE JONES 2 BR10144
▪INDEPNDNC LNDRY CO BR10414
▪R MINER INCOM TAX BR11005
▪SUBURBAN INC TAX BR11005
▪THE CLINIC ANSW SV LA43604
11▪POOS LOCKER PLANT LA43410
12▪RANSEY BARBER SHOP BR10170
15▪WESTERN AUTO ASSOC LA49990
▪RAY DUNNING AUTO LA49990
½HOTEL APT 3 ST ▫BR10875
½KEYSTONE READRS SV LA44938
½HAROLD REDNON 4 LA47198
16▪LLOYD BOTEN RL EST LA43535
▪T M GEORGE REALTOR LA43535
½MRS J DODSON 1 BR10349
18▪GOSPEL TRACT SOC LA44050
▪LESTER L BUTTRAM LA44050
19▪JOHNSONS GROCERY BR11435
21▪TOBLERS FLOWERS ▫LA47570
23▪LEES SUMMIT BTY BR10185
25▪LAIN MCADOO DRG CO LA43690
▪LANE DRUG CO LA43690
▪MACADOOS REXAL DRG LA43690
▪J GRANT PHARMACY LA43690
26▪BAKERS DEPT STORE BR10430
32▪F M SCHICKEDSON HDW LA43666
105▪DR R E MARSHALL LA43834
107▪MILLERS INSURANCE LA43577
▪J H MILLER INS AGY LA43577
109▪JORDON TV SERV BR10319
▪LANG ELECT SERV BR10319
▪LANG ELECT SERV LA43363
▪JORDON TV SERV LA43363
½MASONIC HALL BR10112
111▪PEBBLEHORN GARDENS ▫LA45077
112▪THE BROASTD CHICKN BR10942
114▪GLAMOURETE BTY SHP BR14609

Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

SE DOUGLAS ST 1967



PAGE 736 COLE'S

315 ED FIELDMAN S BR11029
400 MAURICE O TYSON 1 BR10834
402 RICHARD S FORD LA47114
404 MRS HAZEL FURLONG1 BR10833
405 GERALD E MULLIGAN2 BR12305
406 WM I SCOFIELD 6 LA44835
408 JANET M CLARK LA43724
PATRICIA A BRADY LA43904
409 UNITED DRY WALL COBR11314
R R BRATTIN CONTR BR11314
410 PAUL A MANDLEY S LA43736
411 HUBERT L KREEGER LA44343
OLEN B CURTIS 4 LA44343
500 MRS VINA TURNEY 4 BR10988
501 E L ANDERSON 1 BR10483
502 R T DOUDNA 4 BR10397
505 LESTER GANN 1 BR11644
507 DAVID HOPWOOD BR12556
508 MRS MARIE DARK 1 BR12136
509 FRANCES R GAY 1 LA45741
600 MRS C W HUFFORD BR12746
IDA B SNOW BR12673
601 R J WALZ 4 BR10805
602 DENNIS SLEICHTER S BR10910
603 GEORGE R BUCEY LA40051
604 DOYLE ACKLIN S BR10444
605 ALLEN NORRIS 1 BR10767
606 MRS B HELMUTH 4 LA47238
AKARIN HOLGER LA47238
BWAYNE HUGHES 4 BR11754
610 BILL H FAUST S BR10589
612 J V HOSTETTER BULK BR10237
620 LEES WATCH SHOP LA43974
NO # CHARLES D BISHOP LA43470
NO # BILLY J ELKINS S BR10362
NO # J C MAUPIN BR12729
NO # LEO MCCALL 6 LA47312
NO # PAUL L SAMENFIELD BR10465
NO # RONALD L SCHNEIDER BR12729
89 RESIDENCE 7 BUSINESS

DOUGLAS S 64063

100 MRS MONT WILLIAMS1 BR10246
102 INEZ DEWEESE BR10335
103 MRS KATHRYN GREEN1 BR12730
104 J E SHACKLEFORD 1 BR11644
105 THELMA MYERS 1 BR11341
106 RUSSELL ALLEY 4 LA45037
107 MARGARET E WILTSEE 1 BR10420
GARY MENDENHALL 6 BR11217
MARIE LEE HESS 6 BR12322
108 CHARLES O DARK 1 BR11558
109 RHODA MCARTHUR BR11497
PATSY PERKINS BR14640
110 HYRON E HYATT 6 BR12483
111 DR L G LOPEZ 1 LA44866
2 6 LEES SUMMIT BRNCH BR10567
LEES METHODIST CHR LA44966
203 ALFRED DECKER BR11396
207 MCQUEENS CTRY KTCN BR11069
COUNTRY KITCHEN BR11069
210 D WOODS BEAUTY SHP BR10119
DONS BEAUTY SHOP BR10119
WILLIS KENN INS LA40031
WILLIS DARK INS LA40031
DARK-WILLIS INS AG LA40031
DUNCAN REAL EST LA40040
LEE HAVEN SERV CNT LA42575
211 SUMMIT OIL CO BR19859
213 STONE E W35TH ENGR LA47460
215 DR R M RITTER JR LA40074
216 CONN WKRS LCL6360 LA44360
218 RED CROSS LA44224
219 CHUCKS BARBER SHOP BR11711
220 D XAMAN CHEVY INC LA46000
W HOWARD CHEVYFOLD LA46000
WILLEY CHEVROLET LA46000
223 PRINCE CHLDRNS SHPP LA45152
224 DR G LOGAN CLARK LA43525
226 DONALD C BARNSHAW LA43428
3 6 WILLIES DRIVE INN LA41122
301 HARTLEY FURN CO LA43377
HARTLEYS FURNCAPLN LA43377
308 SUMMIT FORD INC LA47420
309 LAND CLEARANCE LA42509
RENEWAL URBAN LA42509
313 VOGUE THEATRE DR19864
316 LEES CLEANERS LA43544
318 ST DEPT OF REVENUE BR19812
S S GRACE REAL EST LA40089
320 DR R R NEEDHAM LA44200
322 CON-O-WASH BR19865
323 BELLS SINCLAIR BR19869
324 S C CAMPBELL INS BR10300
PATRONS FARMERS INS BR10300
J FRANKLIN BOWNESS BR10300
326 DR L L BECHTOLD BR11218
CHAMBER OF COMMERC BR12424
329 THE GAS SERVICE CO LA43477
332 LEES SUPER MKT LA47676
4 DAIRY QUEEN INC LA47470
JACK CLARK SER STA BR10246
CHRISTIAN CHURCH LA43616
406 MRS ARTONA CARTER BR15308
405 MRS HARRY HOLBERT1 BR10588
406 J W BROYLES 1 LA42561
407 CHRISTIAN CHURCH BR11531
409 MRS LYN BEARD 6 BR11807
412 MRS FRANCES FIELDS 1 BR10131
BETTY VIERGUTZ 5 LA47118
414 MRS LAURA CUMMINS1 BR10184
415 SUMMIT CAB CO BR11911
LEES CAB BR11911
COMMUNITY LEES AMB LA47007
WOODS AMBLNCE LA47007
LEES AMBULANCE LA47007
ANSWERING SERVICE LA47009
LEES ANSWERING SER LA47009
500 MRS ANNA WALLACE 1 BR10211
502 SAMUEL F PARKER 6 BR12145
503 MRS DEANE FOWLKES1 BR12356
504 WILLIAM N INGLE LA45167
505 E C FALK 1 LA40032
507 MABEL GOWELL 4 BR14604
508 C R SUMNER 1 BR12557
509 R W THOMAS 6 BR12166
511 MRS A L MONTGOMERY 1 BR11097
512 KENNETH R HOIT 6 LA40393
513 NELL WILLIAMS 5 BR10443
515 MRS KATHLEEN ELLIS 1 LA44917
600 CORNELIA JONES 1 BR12274
601 C W WITTER 1 LA45953
602 WALTER B JONES 1 BR11479
604 FRANK C HUBER 1 BR11310
605 JIM D DIXON LA40051
606 JIM SANDERS 4 BR12623
607 RICHARD SCHRAMM 1 BR11658
608 ROY BELSER 1 BR10120
609 C W TURKINGTON LA43792
610 A H LEINWEBER 1 BR10376
611 CHARLES I DICK 1 LA42524
612 VIRGIL OSTER 1 LA44334
DORIS BURRIS 1 BR14513
613 L G BENNETT 5 BR10562
615 O E BLACKWELL LA44127
617 MARVIN D HENDERSON LA44314
700 ANDERSON LONG LA44314
701 JAMES PENCE 1 BR11625
702 MRS WENDY CORLEW LA44255
704 O L MUCKEY 6 LA43639
705 TRUMAN PATTERSON BR12755
706 MRS E D GIBSON 1 BR11503
707 MARY STACY 1 LA44046
MIKE FORD 6 BR13148
708 CHAMP T MANBLEN 1 BR10551
709 MARTIN COX BR12049
710 MRS J M GOODHUE BR14530
711 CLAUDE LONG 1 BR10718
712 RICHARD LONE BR10365
713 LEONARD W LITTLE BR11206
MRS DORIS W RUNOIO 4 BR11282
BERNARD V LEE SR 4 LA44172
HENRY R CHANCE 4 LA45146
716 THOMAS L GIBSON 1 BR10591
800 ELMER W GIBSON 4 BR11472
802 RICHARD L SBERTING 6 BR10875
804 JEWEL C DAVIS JR 2 BR11654
805 WILLIAM T HOWARD 1 LA43384
806 FRED OCHSNER 1 BR11033
807 LEONARD WILKINS LA43393
808 L A MORRIDAE BR12013
810 LLOYD BOTEN BR12246
902 RUSTYS STONECREST LA47478
905 GLE HARDWARE BR11332
77 RESIDENCE 55 BUSINESS

EASTRIDGE N 64063

3 AMRS LARRY SPILLARS LA47210
BJACK L PAYNE BR15416
103 ROBERT S CHAPMAN LA47023
200 RAY D HOWARD 5 BR10565
L O EGELSTON BR10784
201 JAMES A DECKER 1 LA43251
202 GENE ZVACEK BR12261
203 DR DAN E D WILSON2 LA45808
204 ERNEST JOHNSON 2 LA40067
205 DR L L BECHTOLD 1 LA43641
207 DICK N SALMON 6 LA45748
209 ROGER L OHMS 3 BR11075
211 R K SCRUGGS 1 LA45773
212 RALPH V SENSHOOF BR11094
213 MITCHEAL TAYLOR 5 BR10896
215 ELMER H MINER 2 LA43311
HUGH MINER 2 LA43311
TREVA MINER 2 LA43311
217 REX CLAYTON 1 BR11458
218 GARY SEIFERT 4 BR14515
219 CHARLES R GARDNER3 BR15653
21 RESIDENCE

EASTRIDGE S 64063

101 E J HARRIS 1 BR10786
103 JACK JONES 1 BR11836
105 B C WHITEHOUSE LA45771
3 RESIDENCE

EASTRIDGE CT 64063

101 EVERT BEAR LA47455
105 PAUL F WORLEY LA47390
107 JOHN NEYRAUCH LA47010
3 RESIDENCE

ELM 64063

105 ROBERT RUSH BR11082
106 MRS DELLA HICKS 1 BR10386
107 MRS LENA C JONES 3 BR11974
109 HENRY CHRISTY 1 BR10625
4 RESIDENCE

FAIR CIR

616 RICHARD W FOOTE 6 BR11485
618 C WARREN AGEE 2 LA49938
2 RESIDENCE

FAIRLANE 64063

603 WM R SIROHMEYER LA44098
605 LLOYD BRADLEY 3 BR10102
607 EDGAR G LEWIS 6 BR10257
609 LAURAN M ELTERMAN LA43871
610 RONALD A STOLBERG LA47407
611 MERRILL L PAPE 1 LA40038
612 JAMES E NAVE 4 LA43709
613 JAMES A BLEEL 2 BR12030
614 JOHN OBRYANT 2 BR10798
615 JOHN L CLAUNCH LA42537
617 EDWARD S DELANEY 3 BR14549
619 WM W GARDNER JR 1 BR11593
621 DONALD COFFEE 2 LA42606
622 HAL L COOK 4 LA42535
623 ROBERT L ANNIX 1 BR10555
624 OBED A FREBKING 2 LA45096
625 RALPH J CARR 2 BR12017
626 DLAND J YOUNGER 6 BR11018
18 RESIDENCE

FALK DR 64063

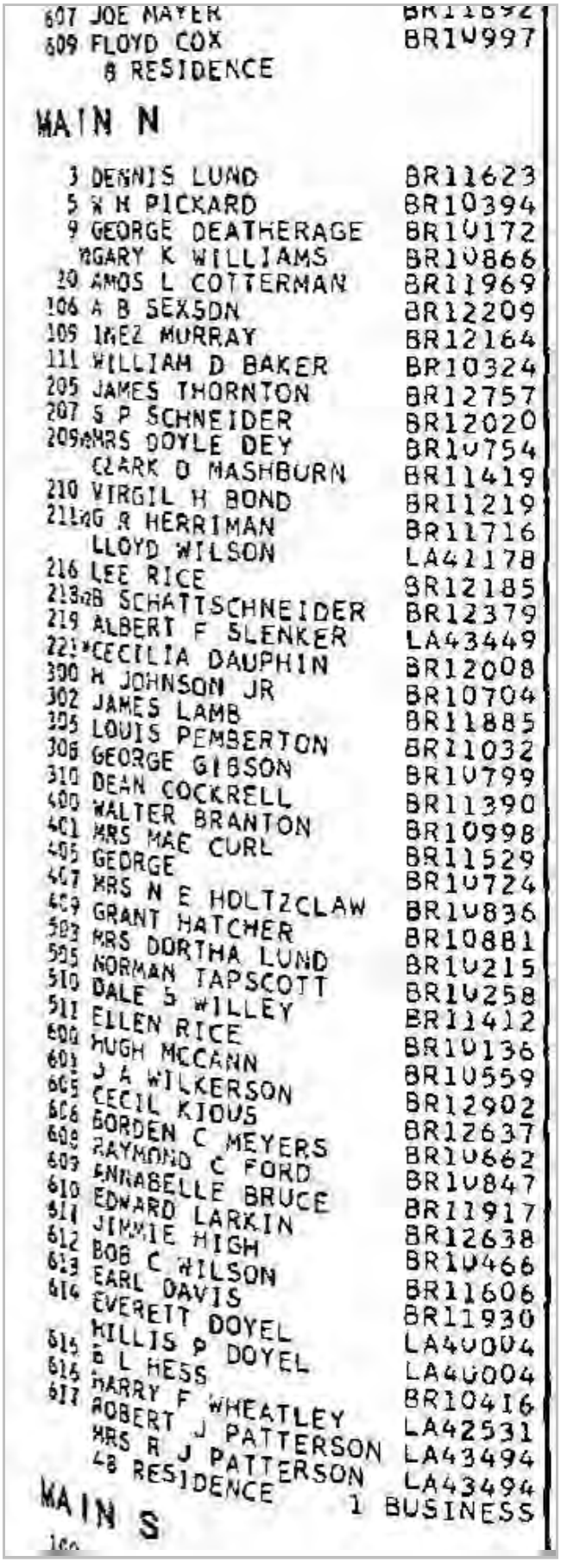
503 LEROY SMITH 4 BR10340
504 GARY T WHITWORTH BR14599
505 MIKE REDPATH LA47436
MICHAEL OSWALD LA47436
506 GEORGE L MISER 2 DR12397
507 STANLEY CAMPBELL 5 BR10720
508 WARREN HAYCOCK LA45745
510 J D RICE 6 LA42507
511 N D BARNARD BR14710
512 RICHARD E FOULK BR14574
513 EVERETT JOHNSTON 3 LA44071
515 LEROY SMITH LA43316
600 THOMAS K EUBANK 5 LA44941
601 R W DAUGHERTY 4 BR11975
602 BILL D VANPELT 1 LA45817
603 MARCUS A PHARR III 4 LA44039
604 W B BERRY JR 1 LA45775
605 DOUG WHITING 4 BR15308
606 LARRY SMEPHARD LA47578
607 CHARLES T CAMPBELL LA43395
608 WON HIK 2 BR15539
609 LEE K DEERWEATHERI LA43683
610 THOMAS JOHNSON 1 BR12841
23 RESIDENCE

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE GREEN ST 1962

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

NE MAIN ST 1962



607 JOE MAYER BR11892
609 FLOYD COX BR10997
8 RESIDENCE

MAIN N

3 DENNIS LUND BR11623
5 W H PICKARD BR10394
9 GEORGE DEATHERAGE BR10172
GARY K WILLIAMS BR10866
20 AMOS L COTTERMAN BR11969
106 A B SEXSON BR12209
109 INEZ MURRAY BR12164
111 WILLIAM D BAKER BR10324
205 JAMES THORNTON BR12757
207 S P SCHNEIDER BR12020
209 MRS DOYLE DEY BR10754
CLARK O MASHBURN BR11419
210 VIRGIL H BOND BR11219
211 G R HERRIMAN BR11716
LLOYD WILSON LA42178
216 LEE RICE BR12185
213 B SCHATTSCHNEIDER BR12379
219 ALBERT F SLENKER LA43449
221 CECILIA DAUPHIN BR12008
300 H JOHNSON JR BR10704
302 JAMES LAMB BR11885
305 LOUIS PEMBERTON BR11032
308 GEORGE GIBSON BR10799
310 DEAN COCKRELL BR11390
400 WALTER BRANTON BR10998
401 MRS MAE CURL BR11529
405 GEORGE BR10724
407 MRS N E HOLTZCLAW BR10836
409 GRANT HATCHER BR10881
503 MRS DORTHA LUND BR10215
505 NORMAN TAPSCOTT BR10258
510 DALE S WILLEY BR11412
511 ELLEN RICE BR10136
600 HUGH MCCANN BR10559
601 J A WILKERSON BR12902
605 CECIL KIOUS BR12637
606 GORDEN C MEYERS BR10662
608 RAYMOND C FORD BR10847
609 ANNABELLE BRUCE BR11917
610 EDWARD LARKIN BR12638
611 JIMMIE HIGH BR10466
612 BOB C WILSON BR11606
613 EARL DAVIS BR11930
614 EVERETT DOYEL LA40004
MILLIS P DOYEL LA40004
615 B L HESS BR10416
616 HARRY F WHEATLEY LA42531
617 ROBERT J PATTERSON LA43494
MRS R J PATTERSON LA43494
48 RESIDENCE 1 BUSINESS

MAIN S

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

SE 2ND ST 1962

1509 JANIS ANGLIN LA49957
N F ANGLIN LA49957
1510 KERMIT BOSLER BR10105
1511 DONALD R LEE LA43658
1512 THOMAS SWEARINGEN BR12157
1513 EDWARD SAVAGE LA43367
1514 BOB LAUGHLIN LA42593
1515 OMAR R DEJARNETT BR11991
1516 J W VAN DER ENT LA40011
43 RESIDENCE

1ST TERR W

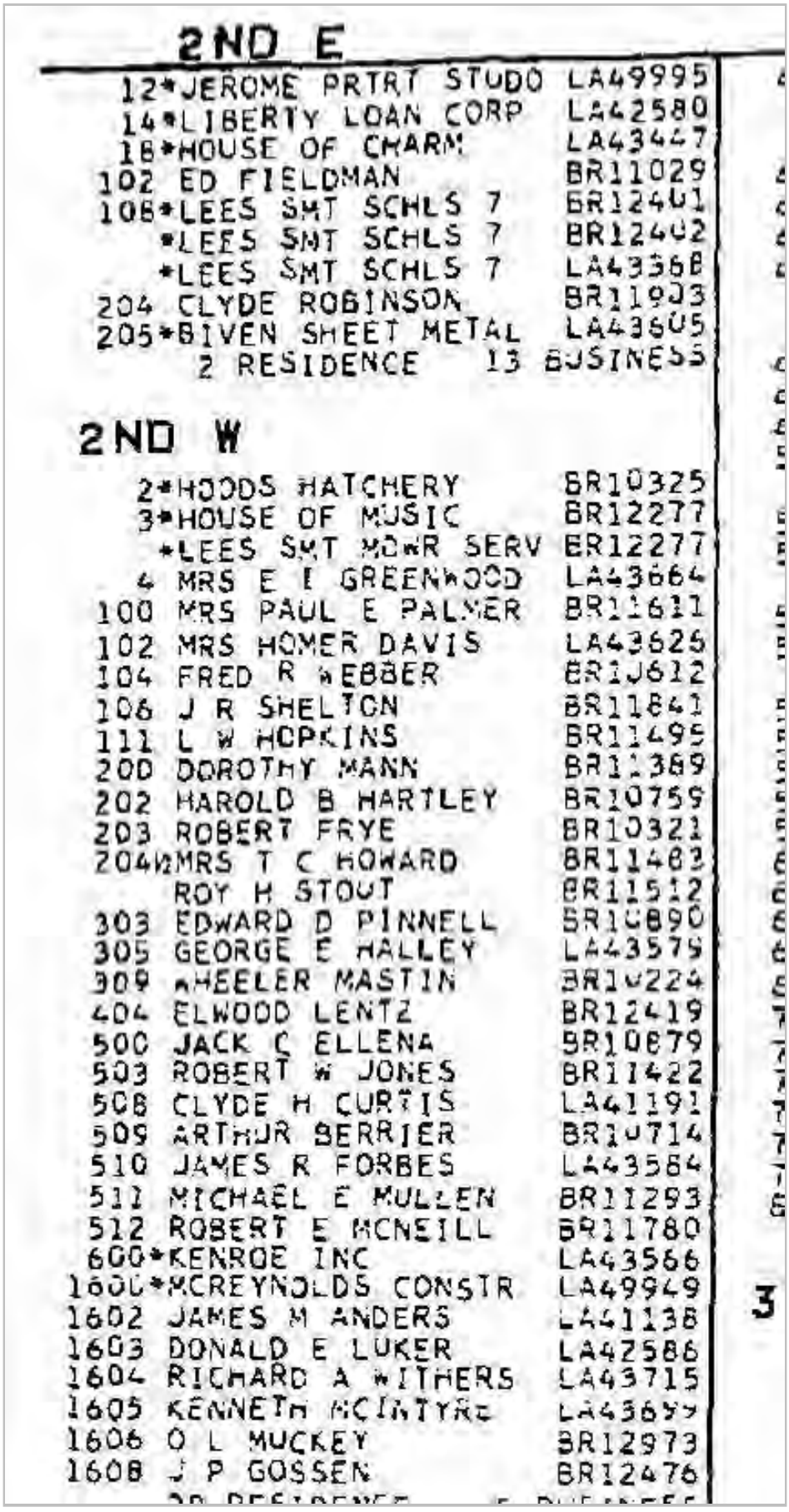
510 GROVER BELL BR11850
512 SHERMAN E ERISMAN LA40063
601 RICHARD STOUFER BR11832
604 JOHN M EPPENAUER BR10970
4 RESIDENCE

2ND E

2*DR DAN E WILSON BR11337
4*JOHN KRAMER ACCT BR11415
*RAY WEEDA INS LA43756
6*RAYMOND B HARRIS LA43345
8*BLUE RVR BAPT ASSN BR11449
10*LEES SMT HI FI CNT LA41100

Target Street	Cross Street	Source
-	✓	Cole Criss-Cross Directory

SE 2ND ST 1962



2ND E

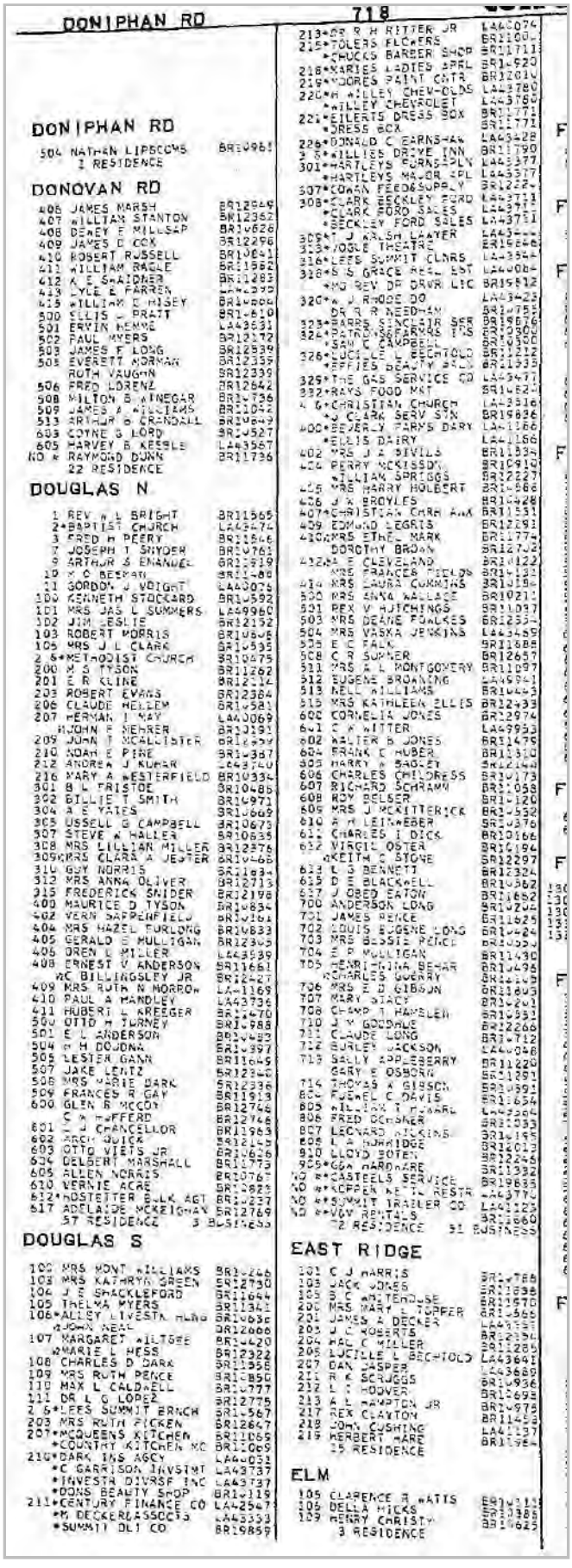
12*	JEROME PRTRT STUDO	LA49995
14*	LIBERTY LOAN CORP	LA42580
18*	HOUSE OF CHARM	LA43447
102	ED FIELDMAN	BR11029
106*	LEES SMT SCHLS 7	BR12401
	*LEES SMT SCHLS 7	BR12402
	*LEES SMT SCHLS 7	LA43368
204	CLYDE ROBINSON	BR11903
205*	BIVEN SHEET METAL	LA43605
	2 RESIDENCE 13 BUSINESS	

2ND W

2*	HOODS HATCHERY	BR10325
3*	HOUSE OF MUSIC	BR12277
	*LEES SMT MOWR SERV	BR12277
4	MRS E I GREENWOOD	LA43664
100	MRS PAUL E PALMER	BR11611
102	MRS HOMER DAVIS	LA43625
104	FRED R WEBBER	BR10612
106	J R SHELTON	BR11841
111	L W HOPKINS	BR11495
200	DOROTHY MANN	BR11389
202	HAROLD B HARTLEY	BR10759
203	ROBERT FRYE	BR10321
204½	MRS T C HOWARD	BR11483
	ROY H STOUT	BR11512
303	EDWARD D PINNELL	BR10890
305	GEORGE E HALLEY	LA43579
309	WHEELER MASTIN	BR10224
404	ELWOOD LENTZ	BR12419
500	JACK C ELLENA	BR10879
503	ROBERT W JONES	BR11422
508	CLYDE H CURTIS	LA41191
509	ARTHUR BERRIER	BR10714
510	JAMES R FORBES	LA43584
511	MICHAEL E MULLEN	BR11293
512	ROBERT E MCNEILL	BR11780
600*	KENROE INC	LA43566
1600*	MCREYNOLDS CONSTR	LA49949
1602	JAMES M ANDERS	LA41138
1603	DONALD E LUKER	LA42586
1604	RICHARD A WITHERS	LA43715
1605	KENNETH MCINTYRE	LA43699
1606	O L MUCKEY	BR12973
1608	J P GOSSEN	BR12476

Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

SE DOUGLAS ST 1962



DONIPHAN RD

DONIPHAN RD

504 NATHAN LIPSCOMB BR10981
1 RESIDENCE

DONOVAN RD

406 JAMES MARSH BR12644
407 WILLIAM STANTON BR12362
408 DENEY E MILLSAP BR10628
409 JAMES D COX BR12296
410 ROBERT RUSSELL BR10611
411 WILLIAM RAGLE BR11562
412 A E SNAIDER BR10283
413 LYLE E FARREN LA43295
415 WILLIAM E MISEY BR10804
500 ELLIS L PRATT BR10610
501 ERVIN HEMME LA43631
502 PAUL MYERS BR10172
503 JAMES F LONG BR12539
505 EVERETT NORMAN BR12359
RUTH VAUGHN BR12339
506 FRED LORENZ BR12642
508 MILTON B WINEGAR BR10736
509 JAMES A WILLIAMS BR11042
513 ARTHUR B CRANDALL BR10649
603 COYNE S LORD BR10527
605 HARVEY B KEESLE LA43567
NO # RAYMOND DUNN BR11736
22 RESIDENCE

DOUGLAS N

1 REV A L BRIGHT BR11565
2*BAPTIST CHURCH LA43474
3 FRED H PEERY BR11646
7 JOSEPH T SNYDER BR10761
9 ARTHUR S EMANUEL BR11919
10 W O BESMAN BR11488
11 GORDON J VOIGHT LA43026
100 KENNETH STOCKARD BR10592
101 MRS JAS L SUMMERS LA43960
102 JIM LESLIE BR12152
103 ROBERT MORRIS BR10846
105 MRS J L CLARK BR10595
2 &*METHODIST CHURCH BR10475
200 M S TYSON BR11262
201 E R KLINE BR12112
203 ROBERT EVANS BR12384
206 CLAUDE HELLEM BR10581
207 HERMAN I MAY LA43069
HJOHN F NEHRER BR11191
209 JOHN T MCALLISTER BR10994
210 NOAH E PINE BR10387
212 ANDREW J KUHAR LA43740
216 MARY A WESTERFIELD BR10334
301 B L TRISTOE BR10485
302 BILLIE T SMITH BR10971
304 A E YATES BR10669
305 RUSSELL G CAMPBELL BR10673
307 STEVE A HALLEY BR10635
308 MRS LILLIAN MILLER BR12376
309&MRS CLARA A JESTER BR10466
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C W HEFFERD BR12746
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37 RESIDENCE 3 BUSINESS

DOUGLAS S

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#JOHN NEAL BR12006
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718

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*WILLEY CHEVROLET LA43780
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*DRESS BOX BR11771
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3 &*WILLIES DRIVE INN BR11790
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*HARTLEYS MAJOR APL LA43377
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*MO REV DR DRVR LIC BR15812
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& G*CHRISTIAN CHURCH LA43516
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NO #*SUMMIT TRAILER CO LA41125
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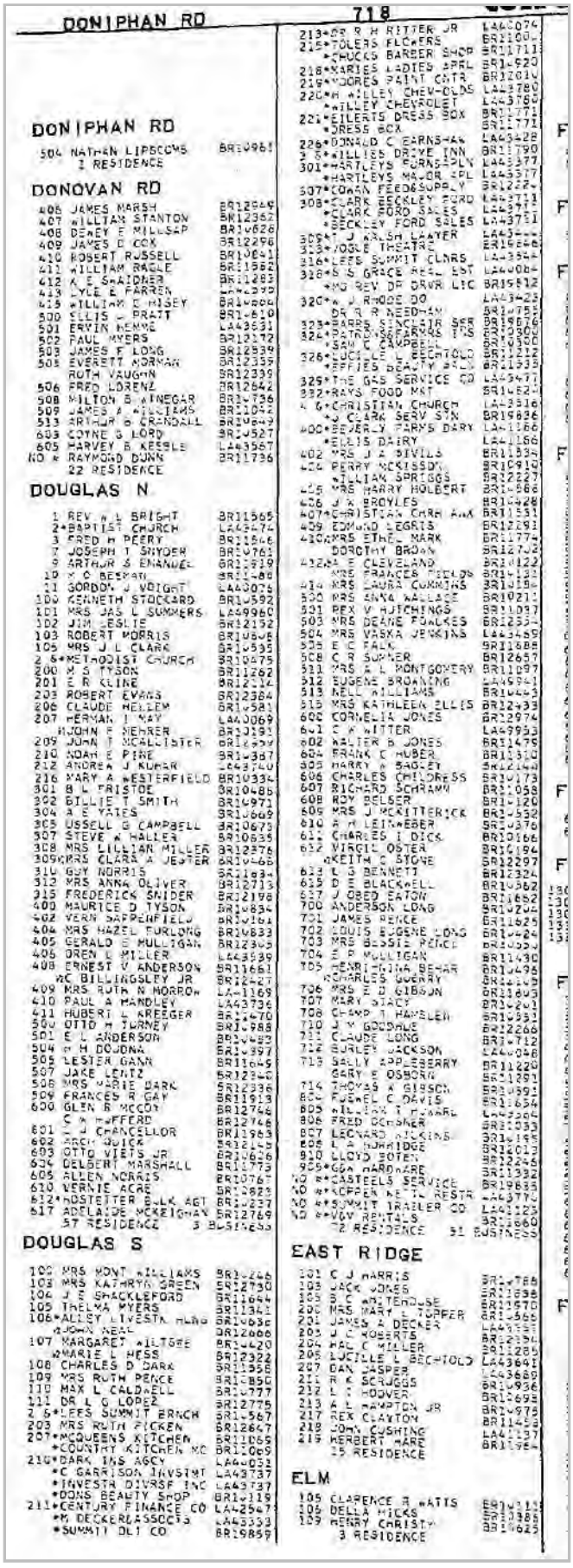
25 RESIDENCE

ELM

105 CLARENCE R WATTS BR10119
106 DELLA HICKS BR13385
109 HENRY CHRISTY BR10625
3 RESIDENCE

Target Street	Cross Street	Source
✓	-	Cole Criss-Cross Directory

SE DOUGLAS ST 1962



DONIPHAN RD

DONIPHAN RD

504 NATHAN LIPSCOMB BR10981
2 RESIDENCE

DONOVAN RD

406 JAMES MARSH BR12644
407 WILLIAM STANTON BR12362
408 DENEY E MILLSAP BR10628
409 JAMES D COX BR12296
410 ROBERT RUSSELL BR10611
411 WILLIAM RAGLE BR11562
412 A E SNAIDER BR10283
413 LYLE E FARREN LA43295
415 WILLIAM E MISEY BR10804
500 ELLIS L PRATT BR10610
501 ERVIN HEMME LA43631
502 PAUL MYERS BR10172
503 JAMES F LONG BR12539
505 EVERETT NORMAN BR12335
RUTH VAUGHN BR12339
506 FRED LORENZ BR12642
508 MILTON B VINEGAR BR10736
509 JAMES A WILLIAMS BR11042
513 ARTHUR B CRANDALL BR10649
603 COYNE S LORD BR10527
605 HARVEY B KEESLE LA43567
NO # RAYMOND DUNN BR11736
22 RESIDENCE

DOUGLAS N

1 REV A L BRIGHT BR11565
2*BAPTIST CHURCH LA43474
3 FRED H PEERY BR11646
7 JOSEPH T SNYDER BR10761
9 ARTHUR S EMANUEL BR11919
10 W O BESMAN BR11488
11 GORDON J VOIGHT LA43026
100 KENNETH STOCKARD BR10592
101 MRS JAS L SUMMERS LA43960
102 JIM LESLIE BR12152
103 ROBERT MORRIS BR10806
105 MRS J L CLARK BR10595
2 &*METHODIST CHURCH BR10475
200 M S TYSON BR11262
201 E R KLINE BR12112
203 ROBERT EVANS BR12384
206 CLAUDE HELLEM BR10581
207 HERMAN I MAY LA43069
HJOHN F NEHRER BR11191
209 JOHN T MCALLISTER BR10994
210 NOAH E PINE BR10387
212 ANDREW J KUMER LA43740
216 MARY A WESTERFIELD BR10334
301 B L TRISTOE BR10485
302 BILLIE T SMITH BR10971
304 A E YATES BR10669
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3 RESIDENCE

STATE OF MISSOURI
Mel Carnahan, Governor • Stephen M. Mahfood, Director
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
P.O. Box 176 Jefferson City, MO 65102-0176

June 13, 2000

Mr. Eric J. Meidenbauer
City of Lee's Summit
Public Works Department/Engineering Division
3 SE Third Street
Lee's Summit, MO 64063

RE: City of Lee's Summit Fire Department, 207 SE Douglas, Lee's Summit, MO
ST0004174, R0006374

Dear Mr. Meidenbauer:

The Tanks Section of the Hazardous Waste Program has received and reviewed the February 22, 2000, Site Check and Preliminary Site Investigation report submitted by Burns & McDonnell for the above referenced site.

Based upon a review of the analytical data and other information submitted, the department finds that no additional investigation or remedial action is currently required with regard to these petroleum substances. However, the department's finding is based solely on the information contained in these reports, and this finding does not constitute a certification or guarantee of the quality of the remedial action conducted or with regard to the lack of contamination on the property.

In the event a future petroleum-related environmental problem arises near this property, the department reserves the right to require responsible parties to conduct additional investigation and/or remedial actions.

If you have any questions regarding this letter, you may contact Mr. Hugh Murrell of my staff at (573) 751-6822.

Sincerely,

HAZARDOUS WASTE PROGRAM

Jim Growney, Chief
Remediation Unit

JG:hme

c: Mr. John Crawshaw, Kansas City Regional Office
Mr. Bill Halliburton, Burns & McDonnell
Mr. David Pate, Williams and Company

Missouri Department of NATURAL RESOURCES
dnr.mo.gov
Michael L. Parson, Governor
Carol S. Comer, Director

JUL 10 2020

Mark Stinson
Fleet Manager
City of Lee's Summit
1971 Southeast Hamblen Road
Lee's Summit, MO 64082-2406

No Further Action Letter

RE: Fire Station #1, 207 Southeast Douglas, Lee's Summit, Jackson County, MO – **ST0004174, R009516**

Dear Mark Stinson:

Congratulations on the completion of this underground storage tank (UST) closure project! The Missouri Department of Natural Resources' Environmental Remediation Program, Tanks Section, thanks you for your efforts to responsibly address the permanent closure of:

- UST ID#1, a 4,000-gallon, fiberglass, diesel fuel UST
- UST ID#2, a 4,000-gallon, fiberglass, gasoline UST.

The Department has reviewed the Missouri Risk-Based Corrective Action (MRBCA) Closure Report dated May 20, 2020, submitted by SCS Engineers for the above referenced facility. The closure report evaluates risks to human health and the environment resulting from a possible petroleum release from the tank system during its operation and summarizes corrective actions taken to address those risks.

The closure report indicates SCS Engineers adequately evaluated these risks and the closure requirements for the tank listed above, using MRBCA non-residential target levels.

Based upon a review of the site information and the closure report, the Department has determined that 'No Further Action' is required regarding the chemicals of concern evaluated in the environmental site assessment conducted during the permanent closure of the tanks at this site.

Please be aware that 10 CSR 26-2.080(3)(B) provides: "if subsequent information becomes available to indicate that contamination may be present at the site at levels which may threaten human health or the environment, the Department may require additional investigation or site characterization and/or corrective action."

The file for this site is maintained by the Department's Environmental Remediation Program, located at 1730 East Elm Street, Jefferson City, Missouri 65101. To view this file or obtain copies, please visit our website for additional information at: http://www.dnr.mo.gov/sunshinerequests.htm.

Please direct questions regarding the Petroleum Storage Tank Insurance Fund to the Fund Administrator at 573-761-4060 or 800-765-2765.

Again, we appreciate your efforts to address contamination at this site and for helping to protect our valuable natural resources. If you have any questions, please contact the project manager for this site, Jeff Kuttenkuler, at the Environmental Remediation Program, P.O. Box 176, Jefferson City, Missouri 65102-0176, or at 573-751-6722.

Sincerely,

ENVIRONMENTAL REMEDIATION PROGRAM

Ken Koon, Chief
Tanks Section

KK:jkle

c: Susan McCart, SCS Engineers
Petroleum Storage Tank Insurance Fund

APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION

Fire Station #1
207 SE Douglas
Lees Summit, MO 64063

Inquiry Number: 7554931.2s
January 30, 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 Source Map	A-10
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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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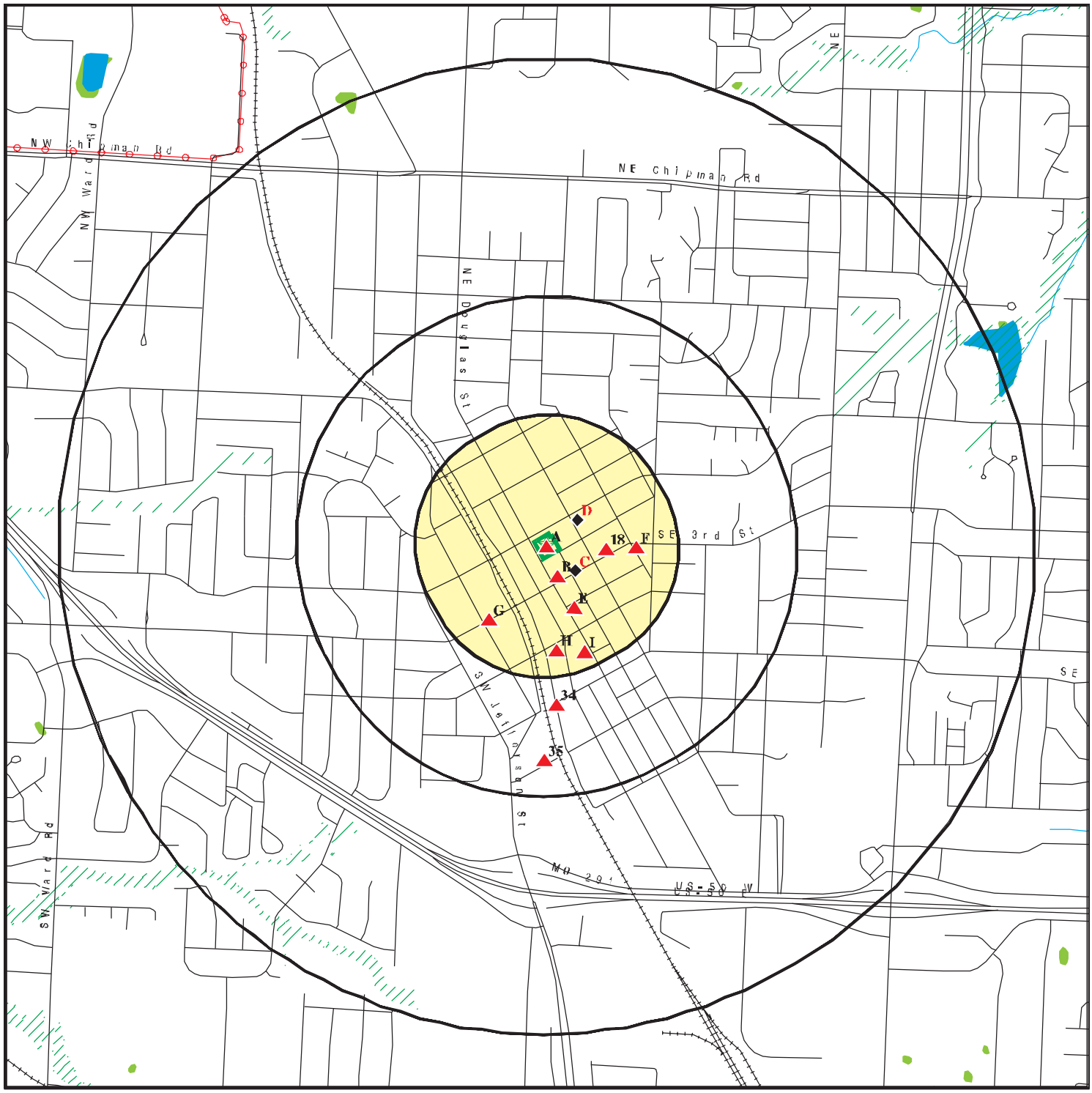
MAPPED SITES SUMMARY

Target Property Address:
207 SE DOUGLAS
LEES SUMMIT, MO 64063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CITY OF LEES SUMMIT	207 SE DOUGLAS	MO LUST, MO UST		TP
A2		FIRE STATION 1, 207	MO SPILLS		TP
A3		207 SOUTHEAST DOUGLA	MO SPILLS		TP
A4	LEE S SUMMIT FIRE DE	207 SE DOUGLAS	FINDS		TP
A5	CITY OF LEES SUMMIT	207 SE DOUGLAS	UST FINDER, UST FINDER RELEASE		TP
A6	CITY OF LEE'S SUMMIT	207 SE DOUGLAS	MO RGA LUST		TP
A7		207 SE DOUGLAS	ERNS		TP
A8	CITY OF LEE'S SUMMIT	207 SE DOUGLAS	MO RGA LUST		TP
A9	CITY OF LEE'S SUMMIT	207 SE DOUGLAS	MO RGA LUST		TP
B10	ESSEX WASTE MGMT SVC	226 SE DOUGLAS	RCRA NonGen / NLR, FINDS, ECHO	Higher	222, 0.042, South
B11	FPC CO	100 SE 3RD ST	RCRA NonGen / NLR	Higher	245, 0.046, SSE
C12	CENTRAL VEHICLE MAIN	126 SE 3RD ST	UST FINDER, UST FINDER RELEASE	Lower	291, 0.055, SE
C13	CENTRAL VEHICLE DEPT	126 SE 3RD ST	MO LUST, MO UST, RCRA NonGen / NLR, FINDS, ECHO,...	Lower	291, 0.055, SE
D14	GREEN STREET VILLAS	201-203 SE GREEN STR	US BROWNFIELDS	Lower	334, 0.063, NE
D15	HERRINGTON AUTOMOTIV	201 SE GREEN ST	EDR Hist Auto	Lower	334, 0.063, NE
B16	ESSEX WASTE MANAGEME	300 SE DOUGLAS	RCRA NonGen / NLR, FINDS, ECHO	Higher	374, 0.071, South
B17	PICKENS PRINTING CO	21 SE 3RD ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	391, 0.074, South
18	SOUTHWESTERN BELL	202 SE 3RD ST	RCRA NonGen / NLR	Higher	517, 0.098, East
E19	LEE'S SUMMIT CLEANER	316 SE DOUGLAS	MO DRYCLEANERS	Higher	571, 0.108, South
E20	LEES SUMMIT CLEANERS	316 SE DOUGLAS ST	EDR Hist Cleaner	Higher	571, 0.108, South
E21	LEES SUMMIT CLEANERS	316 SE DOUGLAS ST	RCRA-VSQG	Higher	571, 0.108, South
E22	COOPERS AUTO SERVICE	323 SE DOUGLAS ST	EDR Hist Auto	Higher	638, 0.121, SSE
F23	LEE'S SUMMIT CLEANER	311 SE THIRD ST #B	MO DRYCLEANERS	Higher	852, 0.161, East
G24	PICKENS PRINTING CO		PFAS ECHO	Higher	905, 0.171, SW
F25	CONOCO CONVENIENCE P	351 SE 3RD STREET	UST FINDER, UST FINDER RELEASE	Higher	932, 0.177, East
F26	QUIKTRIP STORE #162	351 E 3RD ST	MO LUST, MO UST, RCRA NonGen / NLR, FINDS, ECHO	Higher	932, 0.177, East
G27	SERVICE STATION	101 W 3RD ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	985, 0.187, SW
H28	HUBLOU'S BODY SHOP	1 SE 4TH ST	MO LUST, MO UST, MO RRC	Higher	1022, 0.194, South
H29	HUBLOU'S BODY SHOP	1 SE 4TH ST	UST FINDER, UST FINDER RELEASE	Higher	1022, 0.194, South
G30	STAN CAMPBELL	101 SW 3RD ST	MO LUST, MO UST	Higher	1098, 0.208, SW
G31	STAN CAMPBELL	101 SW 3RD ST	UST FINDER, UST FINDER RELEASE	Higher	1098, 0.208, SW
I32	HAWG WYLD INC	406 SE DOUGLAS	RCRA NonGen / NLR	Higher	1128, 0.214, SSE
I33	CALIBER COLLISION CE	410 S DOUGLAS	RCRA-SQG, FINDS, ECHO	Higher	1298, 0.246, SSE
34	BOWEN OIL CO	501 SOUTH MAIN PO BO	MO LUST, MO UST	Higher	1622, 0.307, South
35	FORMER MFA OIL	4 SW 6TH ST	MO LAST, MO TANKS	Higher	2234, 0.423, South

OVERVIEW MAP - 7554931.2S



0 1/4 1/2 1 Miles

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

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

SITE NAME:	Fire Station #1	CLIENT:	Terracon
ADDRESS:	207 SE Douglas Lees Summit MO 64063	CONTACT:	Marci Brockett
		INQUIRY #:	7554931.2s
LAT/LONG:	38.913711 / 94.376508	DATE:	January 30, 2024 2:41 pm

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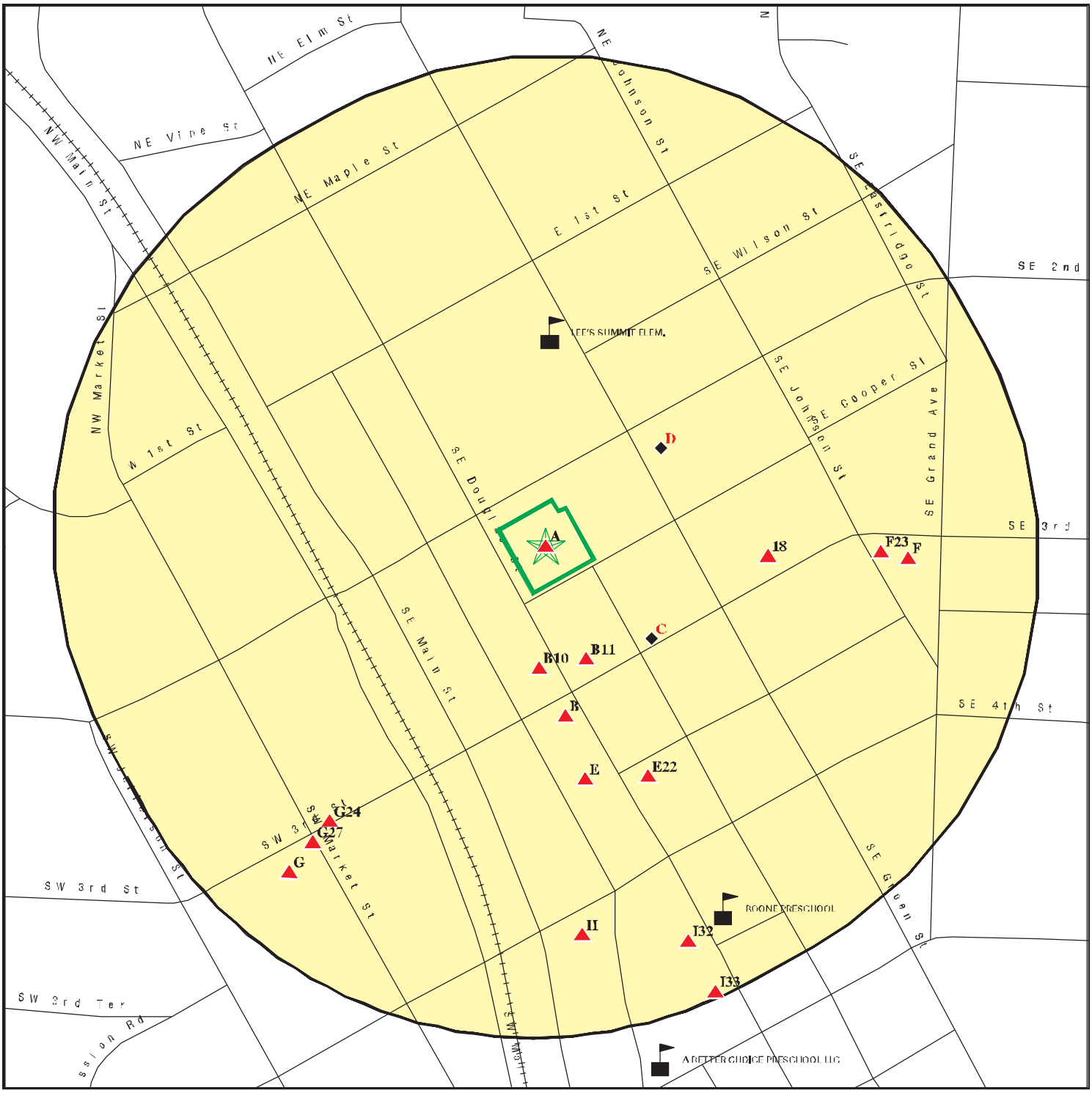
DETAIL MAP - 7554931.2S



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: Fire Station #1	CLIENT: Terracon
ADDRESS: 207 SE Douglas Lees Summit MO 64063	CONTACT: Marci Brockett
LAT/LONG: 38.913711 / 94.376508	INQUIRY #: 7554931.2s DATE: January 30, 2024 2:42 pm

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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		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
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		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
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	1	NR	NR	NR	1
RCRA-VSQG	0.250		1	0	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
Lists of state- and tribal hazardous waste facilities								
MO SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
MO SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
MO LAST	0.500		0	0	1	NR	NR	1

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
MO LUST	0.500	1	1	3	1	NR	NR	6
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
MO UST	0.250	1	1	3	NR	NR	NR	5
MO AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
MO TANKS	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
MO AUL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
MO VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
MO BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		1	0	0	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
MO SWRCY	0.500		0	0	0	NR	NR	0
MO HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	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
MO CDL	TP		NR	NR	NR	NR	NR	0
MO 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
MO SPILLS	TP	2	NR	NR	NR	NR	NR	2
MO SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		6	3	NR	NR	NR	9

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		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	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 TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	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 NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	1	NR	NR	NR	1
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 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
MO PFAS	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
MO AIRS	TP		NR	NR	NR	NR	NR	0
MO ASBESTOS	TP		NR	NR	NR	NR	NR	0
MO COAL ASH	0.500		0	0	0	NR	NR	0
MO DRYCLEANERS	0.250		1	1	NR	NR	NR	2
MO Financial Assurance	TP		NR	NR	NR	NR	NR	0
WI MANIFEST	0.250		1	0	NR	NR	NR	1
MO MINES	0.250		0	0	NR	NR	NR	0
MO NPDES	TP		NR	NR	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
MO SMARS	0.500		0	0	0	NR	NR	0
MO UIC	TP		NR	NR	NR	NR	NR	0
UST FINDER	0.250	1	1	3	NR	NR	NR	5
UST FINDER RELEASE	0.500	1	1	3	0	NR	NR	5
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
MO RGA HWS	TP		NR	NR	NR	NR	NR	0
MO RGA LF	TP		NR	NR	NR	NR	NR	0
MO RGA LUST	TP	3	NR	NR	NR	NR	NR	3
- Totals --		11	17	18	2	0	0	48

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CITY OF LEES SUMMIT FIRE DEPT** **MO LUST U001160040**
Target **207 SE DOUGLAS** **MO UST N/A**
Property **LEES SUMMIT, MO 64063**

Site 1 of 9 in cluster A

Actual: 1022 ft.

LUST:

Name:	CITY OF LEES SUMMIT FIRE DEPT
Address:	207 SE DOUGLAS
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST0004174
Region:	KC - Kansas City Regional Office
Release Date:	08/25/1998
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	08/25/1998
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Remediation ID:	R006374
Referred To DGLS for Investigation:	3
RBCA NFA:	No
Project Manager:	L
Next Correspondence/Update With Fac:	04/30/2000
Date Added:	04/23/1999
Date Record Edited:	06/07/2000
Person Adding Or Editing Record:	MURRELL, H
Facility Sent To State Archive:	Yes
Site Affectd By Funding Level From PSTIF:	No
General Comments:	4/23/99. HM. Rev. response dated February 12, 1999. A diesel tank and piping failed tightness testing in 1997. Also contaminated soil found during piping replacement. Requsted a WP for site assessment, GW monitoring, and vacuum testing of tanks and piping. 7/28/99 HRM Reviewed response. Additional documentation asked for on 4/29/99 asked for again. 03/06/00 HRM Reviewed and approved work plan for site check. 06/07/00 HRM Reviewed site check rpt. Only one hot spot in one temporary well. NOFA issued.

Name:	CITY OF LEES SUMMIT FIRE DEPT
Address:	207 SE DOUGLAS
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST0004174
Region:	KC - Kansas City Regional Office
Release Date:	01/15/2020
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	01/15/2020
Date Cleanup Finished:	07/10/2020
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:	**2020-07-10 00:00:00**
Remediation ID:	R009516
Rank:	7
RBCA NFA:	Yes
Project Manager:	W
Date Added:	05/05/2020
Date Record Edited:	06/30/2021

CITY OF LEES SUMMIT FIRE DEPT (Continued) **U001160040**

Person Adding Or Editing Record:	VEIT, CHRIS
Facility Sent To State Archive:	Yes
General Comments:	There is no physical R file associated with this release. This release was opened to document contamination above the DTL s during closure. 07/10/2020 Issued NFA

UST:

Facility ID:	ST0004174
Region:	KC
Easting:	380681.806
Northing:	4308088.87
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	INTERNS
Date GIS Data Collected:	01/08/2002
Lat/Long:	38.913599 / -94.376239

Tanks:

Owner:

Owner ID:	OW02241
Owner Name:	CITY OF LEE'S SUMMIT FIRE DEPT
Owner Address:	207 SE DOUGLAS
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	2512346
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	1996-01-09 00:00:00

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Permanently Closed in place**
Date Tank Installed:	01/01/1974
Tank Material:	Fiberglass
Date Tank Last Used:	01/07/2020
Date Tank Permanently Closed/ Removed:	03/24/2020
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	JK
Date Record Added:	06/30/1995
Date Record Edited:	07/10/2020
Person Adding/Editing Record:	KOON, K
Date Of NFA Letter:	07/10/2020
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	01/17/2020
Date Of Aprroval Letter:	01/23/2020
Firm Closing Tank:	Genesis Environmental Solutions, Inc.
Date Closure Report Received:	05/26/2020
Registration End Date:	09/30/2024
LockOut Flag:	No
Comments:	1/13/2020 TB Spoke with Susie McCart, SCS. I confirmed pre-closure sampling can be used as in-place closure sampling as long as the necessary amount and location of samples are collected in accordance with in-place closure guidance in 2013 MRBCA. She will also be submitting pump out ticket for this tank very soon as well as closure

CITY OF LEES SUMMIT FIRE DEPT (Continued) **U001160040**

notice. 6/9/20 JK-- rev CR and drafted NFA, emailed SCS to req RG or PE seal,

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	10158
Tank PK:	10158
Compartment Status:	Permanently Closed in place
Capacity:	4000
Substance:	Diesel
Mixture:	False
Pipe Installation Date:	1974-01-01 00:00:00
Pipe System:	2
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW02241
Owner Name:	CITY OF LEE'S SUMMIT FIRE DEPT
Owner Address:	207 SE DOUGLAS
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	2512346
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	1996-01-09 00:00:00

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Permanently Closed in place**
Date Tank Installed:	01/01/1974
Tank Material:	Fiberglass
Date Tank Last Used:	11/30/2018
Date Tank Permanently Closed/ Removed:	03/24/2020
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	JK
Date Record Added:	06/30/1995
Date Record Edited:	07/10/2020
Person Adding/Editing Record:	KOON, K
Date Of NFA Letter:	07/10/2020
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	01/17/2020
Date Of Aprroval Letter:	01/23/2020
Firm Closing Tank:	Genesis Environmental Solutions, Inc.
Date Closure Report Received:	05/26/2020
Registration End Date:	09/30/2024
LockOut Flag:	No
Comments:	1/13/2020 TB Spoke with Susie McCart, SCS. I confirmed pre-closure sampling can be used as in-place closure sampling as long as the necessary amount and location of samples are collected in accordance

CITY OF LEES SUMMIT FIRE DEPT (Continued) **U001160040**

with in-place closure guidance in 2013 MRBCA. Closure notice to be submitted very soon.

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	10159
Tank PK:	10159
Compartment Status:	Permanently Closed in place
Capacity:	4000
Substance:	R
Mixture:	False
Pipe Installation Date:	1974-01-01 00:00:00
Pipe System:	2
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Tank Aug 2011:

Facility Id:	ST0004174
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:	ST0004174
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

A2 **MO SPILLS** **S110606858**
Target Property **FIRE STATION 1, 207 DOUGLAS** **N/A**
LEE'S SUMMIT, MO

Site 2 of 9 in cluster A

Actual: 1022 ft.

SPILLS:

Address:	FIRE STATION 1, 207 DOUGLAS
City,State,Zip:	LEE'S SUMMIT, MO
Facility ID:	9808271410EEG
Spill Number:	9808271410EEG
Reported Date:	08/27/1998
Reported Time:	14:10:00
Regional Office:	KCRO
Property Code:	18
Cause Sub Category:	4
Email:	False
Ongoing:	False

(Continued) **S110606858**

Is A Chemical Pickup Needed?:	False
Cause:	10
Contact Name:	Chris Landoll
Contact Phone #:	8169697307
Contact Id:	8311
Organization Name:	City of Lee's Summit
Organization Address1:	616 Northeast Douglas
Discovery Date:	08/27/1998
Organization Address2:	PO Box 1600
Organization City:	Lee's Summit
Incident Date:	08/27/1998
Organization State:	MO
Organization Zip:	64063
Date Of Incident Search:	08/27/1998
Cause Description:	Leaking Tank System
Report Origin:	68
Lead Agency:	Private - Responsible Party
Additional Information:	Spill Summary: CALLER REPORTS DISCOVERING CONTAMINATION DURING A TANK SYSTEM UPGRADE. Response Summary: RP WILL COORDINATE AN INVESTIGATION AND CLEANUP WITH HWP/TANKS SECTION.
Entity Telephone:	8169697604
Property Code Description:	Public Property

Cleanup Actions:

Spill Number:	9808271410EEG
Incident ID:	8311
Cleanup Action Code:	14
Cleanup Action Description:	Pending

A3 **MO SPILLS** **S126465556**
Target Property **207 SOUTHEAST DOUGLAS** **N/A**
LEE'S SUMMIT, MO

Site 3 of 9 in cluster A

Actual: 1022 ft.

SPILLS:

Address:	207 SOUTHEAST DOUGLAS
City,State,Zip:	LEE'S SUMMIT, MO
Facility ID:	2003251200ESM
Spill Number:	2003251200ESM
Reported Date:	03/25/2020
Reported Time:	12:00:00
Regional Office:	KCRO
Latitude:	38.9136000
Property Code:	14
Longitude:	-94.376099
UTM Zone For GPS:	15
Email:	False
Ongoing:	False
Is A Chemical Pickup Needed?:	False
Cause:	12
Contact Name:	Unknown
Contact Id:	65213
Organization Name:	Unknown
Discovery Date:	03/25/2020
Discovery Time:	12:00:00

(Continued) **S126465556**

Incident Date: 03/25/2020
Incident Time: 12:00:00
GPS Code: AO
Date Of Incident Search: 03/25/2020
UTM North: 4308088.8073349996
UTM East: 380693.86005399999
Cause Description: Mercury Pickup
Report Origin: 58
Lead Agency: Local - Fire
Additional Information: Caller reported that a private citizen dropped off three small vials of mercury at the fire station. The fire chief is able to safely store it until EER can pick them up. Update April 01, 2020: The Department's State On-Scene Coordinator (SOSC) Hilke picked up the vials of mercury at the fire station Update April 03, 2020: SOSC Hilke transported the vials of mercury to the Department's Environmental Services Program for proper disposal.

Property Code Description: Other - Fixed Facility
Description: Address Matching - Other Address Matching
Job Code: NJ20ERFV

Cleanup Actions:
Spill Number: 2003251200ESM
Incident ID: 65213
Cleanup Action Code: 9
Cleanup Action Description: No Release

Report Distribution:
Spill Number: 2003251200ESM
Incident ID: 65213
Agent Code: 19
Agency: DNR - Kansas City Regional Office

A4 **LEE S SUMMIT FIRE DEPARTMENT** **FINDS** **1014778159**
Target **207 SE DOUGLAS** **N/A**
Property **LEE S SUMMIT, MO 64063**

Site 4 of 9 in cluster A

Actual: **1022 ft.**

FINDS:
Registry ID: 110042704507

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.

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

A5 **CITY OF LEES SUMMIT FIRE DEPT** **UST FINDER** **1028466604**
Target **207 SE DOUGLAS** **UST FINDER RELEASE** **N/A**
Property **LEES SUMMIT, MO 64063**

Site 5 of 9 in cluster A

Actual:
1022 ft.

UST FINDER:

Object ID:	267878
Facility ID:	MOST0004174
Name:	CITY OF LEES SUMMIT FIRE DEPT
Address:	207 SE DOUGLAS
City,State,Zip:	LEES SUMMIT, MO 64063
Open USTs:	2
Closed USTs:	0
TOS USTs:	0
Population 1500ft:	449
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	No
Within WHPA:	No
Facility Status:	Open UST(s)
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.3762389999999
Y Coord:	38.913599
Latitude:	38.913599
Longitude:	-94.376239

UST FINDER:

Object ID:	932228
Facility ID:	MOST0004174
Tank ID:	MO10159
Tank Status:	Open
Installation Date:	1974/01/01 16:00:00+00
Tank Capacity:	4000
Substances:	Regular Gas
Tank Wall Type:	Single

Object ID:	932229
Facility ID:	MOST0004174
Tank ID:	MO10158
Tank Status:	Open
Installation Date:	1974/01/01 16:00:00+00
Tank Capacity:	4000
Substances:	Diesel
Tank Wall Type:	Single

UST FINDER RELEASE:

Object ID:	11488
Facility ID:	MOST0004174
Lust ID:	MOR006374
Name:	CITY OF LEES SUMMIT FIRE DEPT
Address:	207 SE DOUGLAS
City,State,Zip:	LEES SUMMIT, MO 64063
Reported Date:	1998/08/25 15:59:59+00
Status:	No Further Action
Population within 1500ft:	451

CITY OF LEES SUMMIT FIRE DEPT (Continued) **1028466604**

Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	No
Within WHPA:	No
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.37625
Y Coord:	38.9136100000001
Latitude:	38.9136099999999
Longitude:	-94.3762499999999

A6 **CITY OF LEE'S SUMMIT FIRE DEPT** **MO RGA LUST** **S116099940**
Target **207 SE DOUGLAS** **N/A**
Property **LEE S SUMMIT, MO**

Site 6 of 9 in cluster A

Actual: **1022 ft.**

RGA LUST:

2006	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2005	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2004	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2003	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2002	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS

A7 **ERNS** **94266337**
Target **207 SE DOUGLAS** **N/A**
Property **LEE'S SUMMIT, MO 64063**

Site 7 of 9 in cluster A

Actual: **1022 ft.**

Incident Commons:

NRC Report #:	266337
Description of Incident:	UNKNOWN / UNKNOWN SHEEN SIGHTING, SHEEN SIZE:5FT X 5FTSHEEN WAS RAINBOW IN COLOR
Type of Incident:	UNKNOWN SHEEN
Incident Cause:	UNKNOWN
Incident Date Time:	1994-10-20 16:00:00
Incident DTG:	DISCOVERED
Loaction Address:	207 SE DOUGLAS
Location Nearest City:	LEE'S SUMMIT
Location State:	MO
Location County:	JACKSON
Location Zip:	64063

Incidents:

Year:	1994
NRC Report #:	266337
Aircraft Type:	UNKNOWN
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N

(Continued) **94266337**

Grade Crossing:	N
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Device Operational:	Y
Brake Failure:	N
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Allision:	N
Structure Operational:	Y
Sub Part C Testing Req:	XXX
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

Year:	1994
NRC Report #:	266337
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Any Injuries:	U
Any Fatalities:	U
Any Damages:	N
Air Corridor Closed:	N
Waterway Closed:	N
Road Closed:	N
Major Artery:	N
Track Closed:	N
Medium Desc:	WATER
Additional Medium Info:	CREEK LEADS TO LITTLE BLUE RIVER
Release Secured:	U
Desc Remedial Action:	FIRE DEPT. PLACED BOOM IN THE CREEK
Water Supply Contaminated:	U
Community Impact:	N
Additional Info:	AT&T BELIEVES THE SHEEN TO BE A RESULT OF A PREVIOUS SPILL
Offshore:	Y
Passengers Transferred:	UNK

Calls:

Year:	1994
NRC Report #:	266337
Site ID:	94266337
Date Time Received:	1994-10-21 09:11:22
Date Time Complete:	1994-10-21 09:20:37
Call Type:	INC
Responsible Company:	AT&T
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	LEE'S SUMMIT
Responsible State:	MO
Responsible Zip:	64063
Source:	UNAVAILABLE

Material Involved:

Year:	1994
NRC Report #:	266337
Chris Code:	OUN

(Continued) **94266337**

Amount of Material:	0
Unit of Measure:	UNKNOWN AMOUNT
Name of Material:	UNKNOWN OIL
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	UNKNOWN AMOUNT

A8 **CITY OF LEE'S SUMMIT FIRE DEPT** **MO RGA LUST** **S116099941**
Target Property **207 SE DOUGLAS** **N/A**
LEE'S SUMMIT, MO

Site 8 of 9 in cluster A

Actual: 1022 ft.

RGA LUST:

2000	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
1999	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS

A9 **CITY OF LEE'S SUMMIT FIRE DEPT** **MO RGA LUST** **S116099942**
Target Property **207 SE DOUGLAS** **N/A**
LEES SUMMIT, MO

Site 9 of 9 in cluster A

Actual: 1022 ft.

RGA LUST:

2012	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2011	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2010	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2008	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS
2007	CITY OF LEE'S SUMMIT FIRE DEPT	207 SE DOUGLAS

B10 **ESSEX WASTE MGMT SVCS INC** **RCRA NonGen / NLR** **1000704886**
South **226 SE DOUGLAS** **FINDS** **MOD985796010**
< 1/8 **LEES SUMMIT, MO 64063** **ECHO**
0.042 mi.
222 ft. **Site 1 of 4 in cluster B**

Relative: Higher
Actual: 1027 ft.

RCRA Listings:

Date Form Received by Agency:	20130314
Handler Name:	Essex Waste Management Services Inc
Handler Address:	226 SE DOUGLAS ST
Handler City,State,Zip:	LEES SUMMIT, MO 64063-2329
EPA ID:	MOD985796010
Contact Name:	EDWARD SECHREST
Contact Address:	PO BOX 1029
Contact City,State,Zip:	LEES SUMMIT, MO 64061
Contact Telephone:	816-525-1119
Contact Title:	MANAGER
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Active Site Indicator:	Handler Activities
Mailing Address:	PO BOX 1029
Mailing City,State,Zip:	LEES SUMMIT, MO 64061
Owner Name:	Edward Sechrest
Owner Type:	Private
Operator Name:	Edward Sechrest

ESSEX WASTE MGMT SVCS INC (Continued) **1000704886**

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:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
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:	20130315
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D003
Waste Description:	Reactive Waste
Waste Code:	D004
Waste Description:	Arsenic
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D008
Waste Description:	Lead

ESSEX WASTE MGMT SVCS INC (Continued) **1000704886**

Waste Code: F001
Waste Description: The Following Spent Halogenated Solvents Used In Degreasing: Tetrachloroethylene, Trichlorethylene, Methylene Chloride, 1,1,1-Trichloroethane, Carbon Tetrachloride And Chlorinated Fluorocarbons; All Spent Solvent Mixtures/Blends Used In Degreasing Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F002
Waste Description: The Following Spent Halogenated Solvents: Tetrachloroethylene, Methylene Chloride, Trichloroethylene, 1,1,1-Trichloroethane, Chlorobenzene, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Ortho-Dichlorobenzene, Trichlorofluoromethane, And 1,1,2, Trichloroethane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F001, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F003
Waste Description: The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: K085
Waste Description: Distillation Or Fractionation Column Bottoms From The Production Of Chlorobenzenes.

Waste Code: P051
Waste Description: 2,7:3,6-Dimethanonaphth[2,3-B]Oxirene, 3,4,5,6,9,9-Hexachloro-1a,2,2a,3,6,6a,7,7a-Octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)- & Metabolites (Or) Endrin (Or) Endrin, & Metabolites

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: EDWARD SECHREST
Legal Status: Private
Date Became Current: 19910221

Owner/Operator Indicator: Owner
Owner/Operator Name: EDWARD SECHREST
Legal Status: Private

Owner/Operator Indicator: Owner
Owner/Operator Name: EDWARD SECHREST
Legal Status: Private
Date Became Current: 19910221

ESSEX WASTE MGMT SVCS INC (Continued) **1000704886**

Historic Generators:

Receive Date:		20130314
Handler Name:	ESSEX WASTE MANAGEMENT SERVICES INC	
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

Receive Date:		19910221
Handler Name:	ESSEX WASTE MGMT SVCS INC	
Federal Waste Generator Description:		Not a generator, verified
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No

List of NAICS Codes and Descriptions:

NAICS Code:	56291
NAICS Description:	REMEDIATION SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110006422950

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

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

ESSEX WASTE MGMT SVCS INC (Continued) **1000704886**

ECHO:
Envid: 1000704886
Registry ID: 110006422950
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110006422950
Name: ESSEX WASTE MGMT SVCS INC
Address: 226 SE DOUGLAS
City,State,Zip: LEES SUMMIT, MO 64063

B11 **FPC CO** **RCRA NonGen / NLR** **1010565114**
SSE **100 SE 3RD ST** **MOR000522227**
< 1/8 **LEES SUMMIT, MO 64063**
0.046 mi.
245 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
1023 ft.

RCRA Listings:
Date Form Received by Agency: 20100326
Handler Name: Fpc Co
Handler Address: SE 3RD ST
Handler City,State,Zip: LEES SUMMIT, MO 64063-2720
EPA ID: MOR000522227
Contact Name: DONNIE FUNK
Contact Address: NW DUNLAP DR
Contact City,State,Zip: LEES SUMMIT, MO 64063
Contact Telephone: 816-524-3233
Contact Email: DONNIE.FUNK@CASKC.COM
EPA Region: 07
Land Type: Private
Federal Waste Generator Description: Not a generator, verified
Mailing Address: NW DUNLAP DR
Mailing City,State,Zip: LEES SUMMIT, MO 64063
Owner Name: Fpc Companies
Owner Type: Private
Operator Name: Fpc Companies
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: NN
2018 GPRA Permit Baseline: Not on the Baseline
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

FPC CO (Continued) **1010565114**

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:	20100729
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D018
Waste Description:	Benzene

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: FPC COMPANIES	
Legal Status:	Private
Date Became Current:	20071205
Owner/Operator Address:	306 SE 3RD ST
Owner/Operator City,State,Zip:	LEES SUMMIT, MO 64063
Owner/Operator Telephone:	816-554-7117
Owner/Operator Indicator:	Operator
Owner/Operator Name: FPC COMPANIES	
Legal Status:	Private
Date Became Current:	20071205
Owner/Operator Address:	306 SE 3RD ST
Owner/Operator City,State,Zip:	LEES SUMMIT, MO 64063
Owner/Operator Telephone:	816-554-7117
Owner/Operator Indicator:	Operator
Owner/Operator Name: FPC COMPANIES	
Legal Status:	Private
Date Became Current:	20071205
Owner/Operator Address:	306 SE 3RD ST
Owner/Operator City,State,Zip:	LEES SUMMIT, MO 64063
Owner/Operator Telephone:	816-554-7117
Owner/Operator Indicator:	Owner
Owner/Operator Name: FPC COMPANIES	
Legal Status:	Private
Date Became Current:	20071205
Owner/Operator Address:	306 SE 3RD ST
Owner/Operator City,State,Zip:	LEES SUMMIT, MO 64063
Owner/Operator Telephone:	816-554-7117

Historic Generators:

Receive Date:	20100326

FPC CO (Continued) **1010565114**

Handler Name: FPC CO
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

Receive Date: 20071205
Handler Name: FPC CO
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

List of NAICS Codes and Descriptions:
NAICS Code: 53119
NAICS Description: LESSORS OF OTHER REAL ESTATE PROPERTY

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C12 **CENTRAL VEHICLE MAINT** **UST FINDER** **1028466158**
SE **126 SE 3RD ST** **UST FINDER RELEASE** **N/A**
< 1/8 **LEES SUMMIT, MO 64063**
0.055 mi.
291 ft. **Site 1 of 2 in cluster C**

Relative: **Lower**
Actual: **1020 ft.**

UST FINDER:
Object ID: 267869
Facility ID: MOST0003624
Name: CENTRAL VEHICLE MAINT
Address: 126 SE 3RD ST
City,State,Zip: LEES SUMMIT, MO 64063
Open USTs: 0
Closed USTs: 1
TOS USTs: 0
Population 1500ft: 440
Private Wells 1500ft: 0
Within 100yr Floodplain: No
Land Use: Developed, High Intensity
Within SPA: No
Within WHPA: No
Facility Status: Closed UST(s)
EPA Region: 7
Coordinate Source: State
X Coord: -94.3758309999999
Y Coord: 38.9127970000001

CENTRAL VEHICLE MAINT (Continued) **1028466158**

Latitude: 38.912797
Longitude: -94.375831

UST FINDER:
Object ID: 956189
Facility ID: MOST0003624
Tank ID: MO8839
Tank Status: Closed
Tank Capacity: 500
Substances: Used Oil
Tank Wall Type: Single

UST FINDER RELEASE:
Object ID: 11490
Facility ID: MOST0003624
Lust ID: MOR003551
Name: CENTRAL VEHICLE MAINT
Address: 126 SE 3RD ST
City,State,Zip: LEES SUMMIT, MO 64063
Reported Date: 1992/06/11 15:59:59+00
Status: No Further Action
Population within 1500ft: 439
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
Within WHPA: No
Within 100yr Floodplain: No
EPA Region: 7
Coordinate Source: State
X Coord: -94.37584
Y Coord: 38.9128000000001
Latitude: 38.9127999999999
Longitude: -94.3758399999999

C13 **CENTRAL VEHICLE DEPT** **MO LUST** **1000418962**
SE **126 SE 3RD ST** **MO UST** **MOD985770783**
< 1/8 **LEES SUMMIT, MO 64063** **RCRA NonGen / NLR**
0.055 mi. **FINDS**
291 ft. **Site 2 of 2 in cluster C** **ECHO**
WI MANIFEST

Relative:
Lower

Actual:
1020 ft.

LUST:
Name: CENTRAL VEHICLE MAINT
Address: 126 SE 3RD ST
City,State,Zip: LEES SUMMIT, MO 64063
Facility ID: ST0003624
Region: KC - Kansas City Regional Office
Release Date: 06/11/1992
Release Type: UNDERGROUND STORAGE TANK
Date Cleanup Started: 06/11/1992
Date Cleanup Finished: 11/19/1992
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: 1992-11-23 00:00:00
Remediation ID: R003551

CENTRAL VEHICLE DEPT (Continued) **1000418962**

RBCA NFA:	No
Project Manager:	L
Date Added:	06/30/1995
Date Record Edited:	08/25/2023
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:	ST0003624
Region:	KC
Easting:	380731.088
Northing:	4308023.43
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	RANGEN, K
Date GIS Data Collected:	09/14/2020
Lat/Long:	38.9126890 / -94.375856

Tanks:

Owner:

Owner ID:	OW02237
Owner Name:	CITY OF LEE'S SUMMIT
Owner Address:	220 SE GREEN ST
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	9691940
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2010-08-06 00:00:00
Name of Person Editing Record:	CORBIN, M

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Tank Material:	Steel
Date Tank Last Used:	11/23/1992
Date Tank Permanently Closed/ Removed:	11/23/1992
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Of NFA Letter:	11/23/1992
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	05/26/1992
Date Of Aprroval Letter:	11/23/1992
Firm Closing Tank:	DOUBLE CHECK COMPANY
LockOut Flag:	No
Comments:	1-500 USED OIL

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	8839
Tank PK:	8839

CENTRAL VEHICLE DEPT (Continued) **1000418962**

Compartment Status:	Removed
Capacity:	500
Substance:	Used Oil
Mixture:	False
Date of Last Use:	1992-11-23 00:00:00
Pipe System:	4
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0003624
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

RCRA Listings:

Date Form Received by Agency:	20060217
Handler Name:	Lees Summit City Of Central Vehicle Dept
Handler Address:	SE 3RD ST
Handler City,State,Zip:	LEES SUMMIT, MO 64063
EPA ID:	MOD985770783
Contact Name:	RANDY DICKEY
Contact Address:	220 SW MAIN ST
Contact City,State,Zip:	LEES SUMMIT, MO 64063
Contact Telephone:	816-803-5495
EPA Region:	07
Land Type:	Municipal
Federal Waste Generator Description:	Not a generator, verified
Mailing Address:	SW MAIN ST
Mailing City,State,Zip:	LEES SUMMIT, MO 64063
Owner Name:	City Of Lees Summit
Owner Type:	Municipal
Operator Name:	City Of Lees Summit
Operator Type:	Municipal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	NN

CENTRAL VEHICLE DEPT (Continued) **1000418962**

2018 GPRA Permit Baseline:	Not on the Baseline
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:	20060330
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	F002
Waste Description:	The Following Spent Halogenated Solvents: Tetrachloroethylene, Methylene Chloride, Trichloroethylene, 1,1,1-Trichloroethane, Chlorobenzene, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Ortho-Dichlorobenzene, Trichlorofluoromethane, And 1,1,2, Trichloroethane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F001, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.
Waste Code:	F004
Waste Description:	The Following Spent Nonhalogenated Solvents: Cresols, Cresylic Acid, And Nitrobenzene; And The Still Bottoms From The Recovery Of These Solvents; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CITY OF LEES SUMMIT
Legal Status:	Municipal
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CITY OF LEES SUMMIT

CENTRAL VEHICLE DEPT (Continued) **1000418962**

Legal Status: Municipal
Owner/Operator Address: 220 SW MAIN ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-969-7334

Owner/Operator Indicator: Owner
Owner/Operator Name: CITY OF LEES SUMMIT
Legal Status: Municipal
Owner/Operator Address: 220 SW MAIN ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-969-7334

Owner/Operator Indicator: Operator
Owner/Operator Name: CITY OF LEES SUMMIT
Legal Status: Municipal
Date Became Current: 20040719
Owner/Operator Address: 220 SW MAIN ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-969-7334

Owner/Operator Indicator: Operator
Owner/Operator Name: CITY OF LEES SUMMIT
Legal Status: Municipal
Date Became Current: 20040719
Owner/Operator Address: 220 SW MAIN ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-969-7334

Historic Generators:
Receive Date: 19940901
Handler Name: CENTRAL VEHICLE DEPT
Federal Waste Generator Description: Not a generator, verified
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20040719
Handler Name: LEES SUMMIT CITY OF CENTRAL VEHICLE DEPT
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20060217
Handler Name: LEES SUMMIT CITY OF CENTRAL VEHICLE DEPT
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

CENTRAL VEHICLE DEPT (Continued) **1000418962**

Current Record: Yes

List of NAICS Codes and Descriptions:
NAICS Code: 92119
NAICS Description: OTHER GENERAL GOVERNMENT SUPPORT

Has the Facility Received Notices of Violations:
Found Violation: No

Evaluation Action Summary:
Evaluation Date: 20061228
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier: MO GR
Evaluation Responsible Sub-Organization: ENF

FINDS:
Registry ID: 110003960615

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

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

ECHO:
Envid: 1000418962
Registry ID: 110003960615
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003960615
Name: CENTRAL VEHICLE DEPT
Address: 126 SE 3RD ST
City,State,Zip: LEES SUMMIT, MO 64063

WI MANIFEST:
Name: CENTRAL VEHICLE DEPARTMENT
Address: 126 SE 3RD STREET
City,State,Zip: LEES SUMMIT, MO 64063
Year: 2004
EPA ID: MOD985770783
FID: 0
ACT Code: 202

CENTRAL VEHICLE DEPT (Continued) **1000418962**

ACT Status: A
ACT Code 1: 202
ACT Name: HW Generator - Small

D14 **GREEN STREET VILLAS** **US BROWNFIELDS** **1017782406**
NE **201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOH** **N/A**
< 1/8 **LEE'S SUMMIT, MO 64063**
0.063 mi.
334 ft. **Site 1 of 2 in cluster D**

Relative: **Lower**
Actual: **1018 ft.**

US BROWNFIELDS:
Name: GREEN STREET VILLAS
Address: 201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name: Kansas City Missouri, City of
Grant type: Assessment
Property Number: 61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size: 2.2999999999999998
Latitude: 38.911646300000001
Longitude: -94.361651600000002
Highlights: The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field.

GREEN STREET VILLAS (Continued) **1017782406**

The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	5988
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Supplemental Assessment
Cooperative Agreement Number:	97722301
Start Date:	1/31/2012
Ownership Entity:	Private
Completion Date:	2/29/2012
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-

GREEN STREET VILLAS (Continued) **1017782406**

Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.
Below Poverty Number:	283
Below Poverty Percent:	8.7699999999999
Meidan Income:	2751
Meidan Income Number:	770
Meidan Income Percent:	23.850000000000
Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999
Name:	GREEN STREET VILLAS
Address:	201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name:	Kansas City Missouri, City of
Grant type:	Assessment
Property Number:	61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size:	2.2999999999999998
Latitude:	38.911646300000001
Longitude:	-94.361651600000002
Highlights:	The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs

GREEN STREET VILLAS (Continued) **1017782406**

indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	5988
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Supplemental Assessment
Cooperative Agreement Number:	97722301

GREEN STREET VILLAS (Continued) **1017782406**

Start Date:	1/31/2012
Ownership Entity:	Private
Completion Date:	2/29/2012
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.
Below Poverty Number:	283
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Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999

GREEN STREET VILLAS (Continued) **1017782406**

Name: GREEN STREET VILLAS
Address: 201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name: Kansas City Missouri, City of
Grant type: Assessment
Property Number: 61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size: 2.2999999999999998
Latitude: 38.911646300000001
Longitude: -94.361651600000002
Highlights: The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject

GREEN STREET VILLAS (Continued) **1017782406**

properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	2330
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Cooperative Agreement Number:	97722301
Start Date:	11/10/2011
Ownership Entity:	Private
Completion Date:	12/20/2011
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
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GREEN STREET VILLAS (Continued) **1017782406**

of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

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Unemployed Percent:	5.6699999999999
Name:	GREEN STREET VILLAS
Address:	201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name:	Kansas City Missouri, City of
Grant type:	Assessment
Property Number:	61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size:	2.2999999999999998
Latitude:	38.911646300000001
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Highlights:	The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the

GREEN STREET VILLAS (Continued) **1017782406**

MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	12764
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Cooperative Agreement Number:	97722201
Start Date:	1/31/2012
Ownership Entity:	Private
Completion Date:	2/24/2012
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-

GREEN STREET VILLAS (Continued) **1017782406**

IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.
Below Poverty Number:	283
Below Poverty Percent:	8.7699999999999
Meidan Income:	2751
Meidan Income Number:	770
Meidan Income Percent:	23.850000000000
Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999
Name:	GREEN STREET VILLAS
Address:	201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name:	Kansas City Missouri, City of
Grant type:	Assessment
Property Number:	61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size:	2.2999999999999998
Latitude:	38.911646300000001
Longitude:	-94.361651600000002
Highlights:	The project occupies one city block southeast of 2nd Street and Green

GREEN STREET VILLAS (Continued) **1017782406**

Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date: -
Redev Completition Date: -
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: -

GREEN STREET VILLAS (Continued) **1017782406**

Cleanup Funding Source:	-
Assessment Funding:	4250
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Cooperative Agreement Number:	97722301
Start Date:	9/21/2011
Ownership Entity:	Private
Completion Date:	10/31/2011
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street

GREEN STREET VILLAS (Continued) **1017782406**

Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Below Poverty Number: 283
Below Poverty Percent: 8.7699999999999
Meidan Income: 2751
Meidan Income Number: 770
Meidan Income Percent: 23.850000000000
Vacant Housing Number: 43
Vacant Housing Percent: 3.1699999999999
Unemployed Number: 183
Unemployed Percent: 5.6699999999999

Name: GREEN STREET VILLAS
Address: 201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name: Kansas City Missouri, City of
Grant type: Assessment
Property Number: 61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000

Parcel size: 2.2999999999999998
Latitude: 38.911646300000001
Longitude: -94.361651600000002
Highlights: The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four

GREEN STREET VILLAS (Continued) **1017782406**

parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	764
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Cooperative Agreement Number:	97722301
Start Date:	1/31/2012
Ownership Entity:	Private
Completion Date:	2/24/2012
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-

GREEN STREET VILLAS (Continued) **1017782406**

Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.
Below Poverty Number:	283
Below Poverty Percent:	8.7699999999999
Meidan Income:	2751
Meidan Income Number:	770
Meidan Income Percent:	23.850000000000
Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999
Name:	GREEN STREET VILLAS
Address:	201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name:	Kansas City Missouri, City of
Grant type:	Assessment
Property Number:	61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size:	2.2999999999999998
Latitude:	38.911646300000001
Longitude:	-94.361651600000002
Highlights:	The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The

GREEN STREET VILLAS (Continued) **1017782406**

Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	2330
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment

GREEN STREET VILLAS (Continued) **1017782406**

Cooperative Agreement Number:	97722301
Start Date:	11/10/2011
Ownership Entity:	Private
Completion Date:	12/20/2011
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.
Below Poverty Number:	283
Below Poverty Percent:	8.7699999999999
Meidan Income:	2751
Meidan Income Number:	770
Meidan Income Percent:	23.850000000000
Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999

GREEN STREET VILLAS (Continued) **1017782406**

Name: GREEN STREET VILLAS
Address: 201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name: Kansas City Missouri, City of
Grant type: Assessment
Property Number: 61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size: 2.2999999999999998
Latitude: 38.911646300000001
Longitude: -94.361651600000002
Highlights: The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject

GREEN STREET VILLAS (Continued) **1017782406**

properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	4250
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Cooperative Agreement Number:	97722301
Start Date:	9/21/2011
Ownership Entity:	Private
Completion Date:	10/31/2011
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east

GREEN STREET VILLAS (Continued) **1017782406**

of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Below Poverty Number:	283
Below Poverty Percent:	8.7699999999999
Meidan Income:	2751
Meidan Income Number:	770
Meidan Income Percent:	23.850000000000
Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999
Name:	GREEN STREET VILLAS
Address:	201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name:	Kansas City Missouri, City of
Grant type:	Assessment
Property Number:	61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size:	2.2999999999999998
Latitude:	38.911646300000001
Longitude:	-94.361651600000002
Highlights:	The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the

GREEN STREET VILLAS (Continued) **1017782406**

MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	-
Cooperative Agreement Number:	97722301
Start Date:	-
Ownership Entity:	Private
Completion Date:	-
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-

GREEN STREET VILLAS (Continued) **1017782406**

IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.
Below Poverty Number:	283
Below Poverty Percent:	8.7699999999999
Meidan Income:	2751
Meidan Income Number:	770
Meidan Income Percent:	23.850000000000
Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999
Name:	GREEN STREET VILLAS
Address:	201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name:	Kansas City Missouri, City of
Grant type:	Assessment
Property Number:	61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size:	2.2999999999999998
Latitude:	38.911646300000001
Longitude:	-94.361651600000002
Highlights:	The project occupies one city block southeast of 2nd Street and Green

GREEN STREET VILLAS (Continued) **1017782406**

Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th quarter of 2012, the City contacted the developer to see if any additional work was needed; the developer indicated that the project was on standby. Former Use: The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

Start Date: -
Redev Completition Date: -
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: -

GREEN STREET VILLAS (Continued) **1017782406**

Cleanup Funding Source:	-
Assessment Funding:	4250
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Cooperative Agreement Number:	97722301
Start Date:	9/21/2011
Ownership Entity:	Private
Completion Date:	10/31/2011
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street

GREEN STREET VILLAS (Continued) **1017782406**

Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.

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Meidan Income:	2751
Meidan Income Number:	770
Meidan Income Percent:	23.850000000000
Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999

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

Name:	GREEN STREET VILLAS
Address:	201-203 SE GREEN STREET; 205-209 SE GREEN STREET; 200 SE JOHNSON; 208 SE JOHNSON
Recipient name:	Kansas City Missouri, City of
Grant type:	Assessment
Property Number:	61-230-15-13-00-0-00-000; 61-230-15-14-00-0-00-000; 61-230-15-15-00-0-00-000
Parcel size:	2.2999999999999998
Latitude:	38.911646300000001
Longitude:	-94.361651600000002
Highlights:	The project occupies one city block southeast of 2nd Street and Green Street. The site is proposed for mixed income apartments, with a retail and commercial space/community center component. The Area-Wide Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs) concerning mostly petroleum contaminants associated with automotive repair and above-ground storage tanks located on the two NE parcels. Additional RECs included a past spill and cleanup of used oil circa 2005; the site was enrolled in the Voluntary Cleanup Program and a Phase II ESA was completed (note: site not listed in the VCP database and previous Phase II documentation not available). The presence of unlabeled containers storing unknown substances was also considered a REC. The Phase II ESA completed as a result of the current Phase I RECs indicated that several volatile organic compounds (VOCs), petroleum hydrocarbon compounds, and polynuclear aromatic hydrocarbons (PAHs) were detected in soils at concentrations above laboratory reporting limits but below Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTLs). With the exception of one soil lead result, which was reported as an anomaly, lead and arsenic were detected above laboratory reporting limits but below their respective recommended background levels. Limited groundwater was present at the site. No contaminants associated with petroleum products were detected in groundwater in excess of the MRBCA LDTLs. Total arsenic, total cadmium, total chromium, and total lead were detected above the MRBCA LDTLs but none in the dissolved state. No further investigation was recommended. The Hazardous Waste Survey indicated that lead-based paint (LBP) and asbestos was present within the property's buildings. The recommendation was made to abate the LBP and asbestos prior to building renovation or demolition. Additionally, typical hazardous substances associated with the automotive repair business were observed during the assessment; it was recommended to resurvey the buildings after the business has vacated the premises. In the 4th

GREEN STREET VILLAS (Continued) **1017782406**

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Start Date:	-
Redev Completition Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	2330
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	EPA
Cleanup Funding Entity:	-
Grant Type:	Hazardous & Petroleum
Accomplishment Type:	Phase II Environmental Assessment
Cooperative Agreement Number:	97722301
Start Date:	11/10/2011
Ownership Entity:	Private
Completion Date:	12/20/2011
Current Owner:	201 & 203 SE Green Street and 208 SE Johnson Street - Patrick Herrington; 205 & 209 SE Green Street
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-

GREEN STREET VILLAS (Continued) **1017782406**

Past use residential acreage:	-
Past use commercial acreage:	2.3
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Future Use: Multistory	-
Past Use: Multistory	-
Property Description:	The subject properties consist of four parcels with five buildings, one parking lot, and one grass field. The property at 201 SE Green Street, built between 1957 and 1969, is a one story building with offices and an automotive workshop area. The property at 203 SE Green, built prior to 1989, is a one story building with a partial attic and full basement. A detached building with service bays is located east of 203 SE Green, and was built between 1996 and 2005. The property at 205 SE Green, built between 1945 and 1957, is a single story building with a tattoo parlor and a storage area. The property at 209 SE Green Street is a single story building that was previously a tavern, and is currently vacant. The property at 200 SE Johnson Street and the property at 208 SE Johnson Street is a grass field and a parking lot, respectively. The subject properties were developed as early as 1889 as a packing company and residential dwellings. By 1927, the building previously noted as the packing company was used as an ice plant until 1945. Site uses are unknown between 1945 until 1983. The subject properties have been utilized as Herrington Automotive, Green Street Furniture, Giant Step Special Needs, residential, taverns, and a tattoo parlor.
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Vacant Housing Number:	43
Vacant Housing Percent:	3.1699999999999
Unemployed Number:	183
Unemployed Percent:	5.6699999999999

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

D15 **HERRINGTON AUTOMOTIVE** **EDR Hist Auto** **1013760606**
NE **201 SE GREEN ST** **N/A**
< 1/8 **LEES SUMMIT, MO 64063**
0.063 mi.
334 ft. **Site 2 of 2 in cluster D**

Relative: EDR Hist Auto
Lower

Actual: **1018 ft.**

Year:	Name:	Type:
1988	JIMS AUTO SERVICE	General Automotive Repair Shops
1989	JIMS AUTO SERVICE	General Automotive Repair Shops
1990	JIMS AUTO SERVICE	General Automotive Repair Shops
1991	JIMS AUTO SERVICE	General Automotive Repair Shops
1992	JIMS AUTO SERVICE	General Automotive Repair Shops
1993	JIMS AUTO SERVICE	General Automotive Repair Shops
1994	JIMS AUTO SERVICE	General Automotive Repair Shops
1995	JIMS AUTO SERVICE	General Automotive Repair Shops

HERRINGTON AUTOMOTIVE (Continued) **1013760606**

1998	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
1999	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2000	HERRINGTON AUTOMOTIVE	AUTOMOBILE REPAIRING & SERVICE
2000	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2001	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2002	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2003	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2004	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2005	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2006	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2007	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2008	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2009	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2010	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2011	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2012	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2013	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC
2014	HERRINGTON AUTOMOTIVE INC	Automotive Repair Shops, NEC

B16 **ESSEX WASTE MANAGEMENT SVCS** **RCRA NonGen / NLR** **1000225874**
South **300 SE DOUGLAS** **FINDS** **MOD985772870**
< 1/8 **LEES SUMMIT, MO 64063** **ECHO**
0.071 mi.
374 ft. **Site 3 of 4 in cluster B**

Relative: **Higher**
Actual: **1029 ft.**

RCRA Listings:

Date Form Received by Agency:	19900330
Handler Name:	Essex Waste Management Svcs
Handler Address:	SE DOUGLAS
Handler City,State,Zip:	LEES SUMMIT, MO 64063
EPA ID:	MOD985772870
Contact Name:	EDWARD SECHREST
Contact Address:	226 SE DOUGLAS
Contact City,State,Zip:	LEES SUMMIT, MO 64063
Contact Telephone:	816-525-1119
EPA Region:	07
Federal Waste Generator Description:	Not a generator, verified
Mailing Address:	SE DOUGLAS
Mailing City,State,Zip:	LEES SUMMIT, MO 64063
Owner Name:	Edward Sechrest
Owner 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:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

ESSEX WASTE MANAGEMENT SVCS (Continued) **1000225874**

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:	20000916
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D003
Waste Description:	Reactive Waste
Waste Code:	D004
Waste Description:	Arsenic
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D008
Waste Description:	Lead
Waste Code:	F001
Waste Description:	The Following Spent Halogenated Solvents Used In Degreasing: Tetrachloroethylene, Trichlorethylene, Methylene Chloride, 1,1,1-Trichloroethane, Carbon Tetrachloride And Chlorinated Fluorocarbons; All Spent Solvent Mixtures/Blends Used In Degreasing Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.
Waste Code:	F002
Waste Description:	The Following Spent Halogenated Solvents: Tetrachloroethylene, Methylene Chloride, Trichloroethylene, 1,1,1-Trichloroethane, Chlorobenzene, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Ortho-Dichlorobenzene, Trichlorofluoromethane, And 1,1,2,

ESSEX WASTE MANAGEMENT SVCS (Continued) **1000225874**

Trichloroethane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F001, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F003
Waste Description: The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F004
Waste Description: The Following Spent Nonhalogenated Solvents: Cresols, Cresylic Acid, And Nitrobenzene; And The Still Bottoms From The Recovery Of These Solvents; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: K085
Waste Description: Distillation Or Fractionation Column Bottoms From The Production Of Chlorobenzenes.

Waste Code: P051
Waste Description: 2,7:3,6-Dimethanonaphth[2,3-B]Oxirene, 3,4,5,6,9,9-Hexachloro-1a,2,2a,3,6,6a,7,7a-Octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)- & Metabolites (Or) Endrin (Or) Endrin, & Metabolites

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: EDWARD SECHREST
Legal Status: Private

Historic Generators:
Receive Date: 19900330
Handler Name: ESSEX WASTE MANAGEMENT SVCS
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 Codes: No NAICS Codes Found

ESSEX WASTE MANAGEMENT SVCS (Continued) **1000225874**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003961507

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

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

ECHO:

Envid:	1000225874
Registry ID:	110003961507
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003961507
Name:	ESSEX WASTE MANAGEMENT SVCS
Address:	300 SE DOUGLAS
City,State,Zip:	LEES SUMMIT, MO 64063

B17 **PICKENS PRINTING CO INC** **RCRA NonGen / NLR** **1000910574**
South **21 SE 3RD ST** **FINDS** **MOD990872111**
< 1/8 **LEES SUMMIT, MO 64016** **ECHO**
0.074 mi.
391 ft. **Site 4 of 4 in cluster B**

Relative: **Higher**
Actual: **1029 ft.**

RCRA Listings:

Date Form Received by Agency:	20170328
Handler Name:	Pickens Printing Co Inc
Handler Address:	21 SE 3RD ST
Handler City,State,Zip:	LEES SUMMIT, MO 64016-2322
EPA ID:	MOD990872111
Contact Address:	21 SE 3RD ST
Contact City,State,Zip:	LEES SUMMIT, MO 64016-2322
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Mailing Address:	21 SE 3RD ST
Mailing City,State,Zip:	LEES SUMMIT, MO 64016-2322
Owner Name:	Unknown

PICKENS PRINTING CO INC (Continued) **1000910574**

Owner Type:	Private
Operator Name:	Unknown
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:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
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:	20170328
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: UNKNOWN	
Legal Status:	Private
Date Became Current:	20170328
Owner/Operator Indicator:	Owner
Owner/Operator Name: UNKNOWN	
Legal Status:	Private
Date Became Current:	20170328

Historic Generators:

Receive Date:	19930826
Handler Name: PICKENS PRINTING CO INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Mo

PICKENS PRINTING CO INC (Continued) **1000910574**

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:	20170328
Handler Name:	PICKENS PRINTING CO INC
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:	32311
NAICS Description:	PRINTING

NAICS Code:	323111
NAICS Description:	COMMERCIAL GRAVURE PRINTING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110003975645

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

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

ECHO:

Envid:	1000910574
Registry ID:	110003975645

PICKENS PRINTING CO INC (Continued) **1000910574**

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003975645
Name: PICKENS PRINTING CO INC
Address: 21 E 3RD ST
City,State,Zip: LEES SUMMIT, MO 64063

18
East
< 1/8
0.098 mi.
517 ft.

SOUTHWESTERN BELL **RCRA NonGen / NLR** **1010786295**
202 SE 3RD ST **MOR000027375**
LEES SUMMIT, MO 64063

Relative:
Higher

Actual:
1023 ft.

RCRA Listings:

Date Form Received by Agency:	20040924
Handler Name:	Southwestern Bell
Handler Address:	SE 3RD ST
Handler City,State,Zip:	LEES SUMMIT, MO 64063
EPA ID:	MOR000027375
Contact Name:	LARRY HARRELL
Contact Address:	308 S AKARD RM 900
Contact City,State,Zip:	DALLAS, TX 75202
Contact Telephone:	214-464-1942
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Active Site Indicator:	Handler Activities
Mailing Address:	S AKARD RM 900
Mailing City,State,Zip:	DALLAS, TX 75202
Owner Name:	Southwestern Bell
Owner Type:	Private
Operator Name:	Southwestern Bell Telephone Lp
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:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
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

SOUTHWESTERN BELL (Continued) **1010786295**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20041004
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SOUTHWESTERN BELL TELEPHONE LP
Legal Status:	Private
Date Became Current:	20040924
Owner/Operator Address:	308 S AKARD RM 900
Owner/Operator City,State,Zip:	DALLAS, TX 75202
Owner/Operator Telephone:	214-464-1942

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SOUTHWESTERN BELL
Legal Status:	Private
Owner/Operator Address:	5828 MAYWOOD
Owner/Operator City,State,Zip:	RAYTOWN, MO 64133
Owner/Operator Telephone:	816-275-6233

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SOUTHWESTERN BELL
Legal Status:	Private
Owner/Operator Address:	308 S AKARD RM 900
Owner/Operator City,State,Zip:	DALLAS, TX 75202
Owner/Operator Telephone:	214-464-1942

Historic Generators:

Receive Date:	19981020
Handler Name: SOUTHWESTERN BELL	
Federal Waste Generator Description:	Not a generator, verified
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20040924
Handler Name: SOUTHWESTERN BELL	
Federal Waste Generator Description:	Not a generator, verified
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

SOUTHWESTERN BELL (Continued) **1010786295**

Current Record: Yes

List of NAICS Codes and Descriptions:
NAICS Code: 5133
NAICS Description: TELECOMMUNICATIONS

NAICS Code: 51331
NAICS Description: WIRED TELECOMMUNICATIONS CARRIERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E19 **LEE'S SUMMIT CLEANERS INC** **MO DRYCLEANERS** **S106875992**
South **316 SE DOUGLAS** **N/A**
< 1/8 **LEES SUMMIT, MO 64063**
0.108 mi.
571 ft. **Site 1 of 4 in cluster E**

Relative: **Higher**
Actual: **1032 ft.**

DRYCLEANERS:
Plant Number: 095-0260
DC Number: 270
Facility Status: Exempt
Facility Contact: Chong Yu
Facility Phone: 816-524-3544
Site NA: No
Dry Store: No
DC Plant: Yes
Supplier: 0
Chlorinated: 0
Non Chlorinated: -1
OUID: 3218
Party ID: 218

E20 **LEES SUMMIT CLEANERS INC** **EDR Hist Cleaner** **1013781942**
South **316 SE DOUGLAS ST** **N/A**
< 1/8 **LEES SUMMIT, MO 64063**
0.108 mi.
571 ft. **Site 2 of 4 in cluster E**

Relative: **Higher**
Actual: **1032 ft.**

EDR Hist Cleaner

Year:	Name:	Type:
1994	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
1996	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
1997	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
1998	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
1999	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2000	LEES SUMMIT CLEANERS	CLEANERS
2000	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2001	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC

LEES SUMMIT CLEANERS INC (Continued) **1013781942**

2002	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2003	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2004	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2005	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2006	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2007	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2008	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2009	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2010	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2011	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2012	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2013	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2014	LEES SUMMIT CLEANERS INC	Drycleaning Plants, Except Rugs, NEC

E21 **LEES SUMMIT CLEANERS INC** **RCRA-VSQG** **1006809200**
South **316 SE DOUGLAS ST** **MOR000509299**
< 1/8 **LEES SUMMIT, MO 64063**
0.108 mi.
571 ft. **Site 3 of 4 in cluster E**

Relative: **Higher**
Actual: **1032 ft.**

RCRA Listings:

Date Form Received by Agency:	20180122
Handler Name:	Lees Summit Cleaners Inc
Handler Address:	316 SE DOUGLAS ST
Handler City,State,Zip:	LEES SUMMIT, MO 64063-2734
EPA ID:	MOR000509299
Contact Name:	CHONG YU
Contact Address:	316 SE DOUGLAS ST
Contact City,State,Zip:	LEES SUMMIT, MO 64062-2734
Contact Telephone:	816-524-3544
Contact Title:	MANAGER
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Active Site Indicator:	Handler Activities
Mailing Address:	316 SE DOUGLAS ST
Mailing City,State,Zip:	LEES SUMMIT, MO 64062-2734
Owner Name:	Gregory Management Company Llc
Owner Type:	Private
Operator Name:	Gregory Management Company Llc
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:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

LEES SUMMIT CLEANERS INC (Continued) **1006809200**

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:	20180123
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

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: MERRITT W GANO	
Legal Status:	Private
Date Became Current:	20030320
Owner/Operator Address:	316 S DOUGLAS
Owner/Operator City,State,Zip:	LEES SUMMIT, MO 64063
Owner/Operator Telephone:	816-524-3544
Owner/Operator Indicator:	Owner
Owner/Operator Name: MERRITT W GANO	
Legal Status:	Private
Date Became Current:	20030320
Owner/Operator Address:	316 S DOUGLAS
Owner/Operator City,State,Zip:	LEES SUMMIT, MO 64063
Owner/Operator Telephone:	816-524-3544
Owner/Operator Indicator:	Owner
Owner/Operator Name: GREGORY MANAGEMENT CO LLC	
Legal Status:	Private
Date Became Current:	20060901
Owner/Operator Address:	316 SE DOUGLAS ST
Owner/Operator City,State,Zip:	LEES SUMMIT, MO 64063
Owner/Operator Telephone:	816-524-3544
Owner/Operator Indicator:	Owner
Owner/Operator Name: GREGORY MANAGEMENT COMPANY LLC	
Legal Status:	Private
Date Became Current:	20060901
Owner/Operator Address:	316 SE DOUGLAS ST

LEES SUMMIT CLEANERS INC (Continued) **1006809200**

Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-524-3544

Owner/Operator Indicator: Operator
Owner/Operator Name: GREGORY MANAGEMENT COMPANY LLC
Legal Status: Private
Date Became Current: 20060901
Owner/Operator Address: 316 SE DOUGLAS ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-524-3544

Owner/Operator Indicator: Owner
Owner/Operator Name: GREGORY MANAGEMENT COMPANY LLC
Legal Status: Private
Date Became Current: 20060901
Owner/Operator Address: 316 SE DOUGLAS ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063-2734
Owner/Operator Telephone: 816-524-3544

Owner/Operator Indicator: Operator
Owner/Operator Name: GREGORY MANAGEMENT COMPANY LLC
Legal Status: Private
Date Became Current: 20060901
Owner/Operator Address: 316 SE DOUGLAS ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063-2734
Owner/Operator Telephone: 816-524-3544

Owner/Operator Indicator: Operator
Owner/Operator Name: GREGORY MANAGEMENT CO LLC
Legal Status: Private
Date Became Current: 20060901
Owner/Operator Address: 316 SE DOUGLAS ST
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-524-3544

Historic Generators:
Receive Date: 20180122
Handler Name: LEES SUMMIT CLEANERS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes

Receive Date: 20030320
Handler Name: LEES SUMMIT CLEANERS INCQ
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20081016

LEES SUMMIT CLEANERS INC (Continued) **1006809200**

Handler Name: LEES SUMMIT CLEANERS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20130517
Handler Name: LEES SUMMIT CLEANERS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

List of NAICS Codes and Descriptions:
NAICS Code: 81232
NAICS Description: DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20090210
Actual Return to Compliance Date: 20110218
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Enforcement Identifier: 001
Date of Enforcement Action: 20090210
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Type: NOTICE OF DETERMINATION
Enforcement Responsible Person: MO-BH
Enforcement Responsible Sub-Organization: ENF

Evaluation Action Summary:
Evaluation Date: 20090210
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: MO-BH
Actual Return to Compliance Date: 20110218

E22 **COOPERS AUTO SERVICE** **EDR Hist Auto** **1013769074**
SSE **323 SE DOUGLAS ST** **N/A**
< 1/8 **LEES SUMMIT, MO 64063**
0.121 mi.
638 ft. **Site 4 of 4 in cluster E**

Relative: EDR Hist Auto
Higher

Actual:
1030 ft.

Year:	Name:	Type:
1994	COOPERS AUTO SERVICE	General Automotive Repair Shops
1999	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2000	COOPERS AUTO SERVICE	AUTOMOBILE REPAIRING & SERVICE
2000	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2001	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2002	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2003	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2004	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2005	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2006	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2007	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2008	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2009	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2010	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2011	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2013	COOPERS ENTERPRISES INC	General Automotive Repair Shops
2014	COOPERS ENTERPRISES INC	General Automotive Repair Shops

F23 **LEE'S SUMMIT CLEANERS** **MO DRYCLEANERS** **S106877270**
East **311 SE THIRD ST #B** **N/A**
1/8-1/4 **LEES SUMMIT, MO 64063**
0.161 mi.
852 ft. **Site 1 of 3 in cluster F**

Relative: DRYCLEANERS:
Higher

Actual:
1030 ft.

Plant Number:	095-
DC Number:	1093
Facility Phone:	816-246-8858
Site NA:	No
Dry Store:	No
DC Plant:	No
Supplier:	0
Chlorinated:	0
Non Chlorinated:	0
OUID:	4149
Party ID:	1149

G24 **PICKENS PRINTING CO INC** **PFAS ECHO** **1027405769**
SW **N/A**
1/8-1/4 **LEES SUMMIT, MO**
0.171 mi.
905 ft. **Site 1 of 4 in cluster G**

Relative: PFAS ECHO:
Higher

Actual:
1051 ft.

Name:	PICKENS PRINTING CO INC
City,State,Zip:	LEES SUMMIT, MO
Latitude:	38.911470
Longitude:	-94.378760
Count:	1

PICKENS PRINTING CO INC (Continued) **1027405769**

County:	JACKSON
Status:	Inactive
Region:	07
Industry:	Printing
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110003975645
Facility Percent Minority:	15.876
Facility Derived Tribes:	-
Facility Population:	1928.4
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010203
Facility Derived CD113:	05
Facility Derived CB2010:	290950180003010
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	MOD990872111
RCRA Permit Types:	Other
RCRA NAICS:	323111
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-

PICKENS PRINTING CO INC (Continued) **1027405769**

TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.37876,%22y%22:38.91147,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

F25 **CONOCO CONVENIENCE PLUS** **UST FINDER** **1028473903**
East **351 SE 3RD STREET** **UST FINDER RELEASE** **N/A**
1/8-1/4 **LEES SUMMIT, MO 64063**
0.177 mi.
932 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
1031 ft.

UST FINDER:

Object ID:	267877
Facility ID:	MOST0012562
Name:	CONOCO CONVENIENCE PLUS
Address:	351 SE 3RD STREET
City,State,Zip:	LEES SUMMIT, MO 64063
Open USTs:	2
Closed USTs:	2
TOS USTs:	0
Population 1500ft:	819
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, Medium Intensity
Within SPA:	No
Within WHPA:	No
Facility Status:	Open UST(s)
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.372712
Y Coord:	38.913572
Latitude:	38.913572
Longitude:	-94.372712

UST FINDER:

Object ID:	929148
Facility ID:	MOST0012562
Tank ID:	MO31386
Tank Status:	Closed
Installation Date:	1979/01/01 16:00:00+00
Tank Capacity:	8000
Substances:	Gasoline, Including Blends
Tank Wall Type:	Single

Object ID:	925378
Facility ID:	MOST0012562
Tank ID:	MO31387
Tank Status:	Closed
Installation Date:	1984/01/01 16:00:00+00
Tank Capacity:	10000
Substances:	Gasoline, Including Blends
Tank Wall Type:	Single

CONOCO CONVENIENCE PLUS (Continued) **1028473903**

Object ID:	918046
Facility ID:	MOST0012562
Tank ID:	MO31388
Tank Status:	Open
Installation Date:	1999/05/10 15:59:59+00
Tank Capacity:	12000
Substances:	Regular Gas
Tank Wall Type:	Single

Object ID:	918047
Facility ID:	MOST0012562
Tank ID:	MO31389
Tank Status:	Open
Installation Date:	1999/05/10 15:59:59+00
Tank Capacity:	6000
Substances:	Premium Gas
Tank Wall Type:	Single

UST FINDER RELEASE:

Object ID:	11506
Facility ID:	MOST0012562
Lust ID:	MOR004956
Name:	CONOCO CONVENIENCE PLUS
Address:	351 SE 3RD STREET
City,State,Zip:	LEES SUMMIT, MO 64063
Reported Date:	1994/10/01 15:59:59+00
Status:	No Further Action
Population within 1500ft:	818
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
Within WHPA:	No
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.37272
Y Coord:	38.91358
Latitude:	38.91358
Longitude:	-94.37272

F26 **QUIKTRIP STORE #162** **MO LUST** **1000471258**
East **351 E 3RD ST** **MO UST** **MOD985794411**
1/8-1/4 **LEES SUMMIT, MO 64063** **RCRA NonGen / NLR**
0.177 mi. **FINDS**
932 ft. **Site 3 of 3 in cluster F** **ECHO**

Relative:
Higher

Actual:
1031 ft.

LUST:

Name:	CONOCO CONVENIENCE PLUS
Address:	351 SE 3RD STREET
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST0012562
Region:	KC - Kansas City Regional Office
Lat/Long (dms):	38 54 48 / 94 22 21
Spill Number:	941005-1041-MJK
Release Date:	10/01/1994
Release Type:	UNDERGROUND STORAGE TANK

QUIKTRIP STORE #162 (Continued) **1000471258**

Date Cleanup Started:	11/16/1998
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:	**1999-02-01 00:00:00**
Remediation ID:	R004956
RBCA NFA:	No
Project Manager:	L
Date Added:	06/30/1995
Date Record Edited:	04/17/2002
Person Adding Or Editing Record:	ALHALABI, M
Facility Sent To State Archive:	Yes
Site Affectd By Funding Level From PSTIF:	No
General Comments:	07-14-95 - JH - SITE CLOSED. 4/17/02 MA rev file, a NOFA letter was issued (2/1/1999)

UST:

Facility ID:	ST0012562
Region:	KC
Easting:	380987.545
Northing:	4308081.23
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	CON_Fortin,Joel
Date GIS Data Collected:	02/14/2014
Lat/Long:	38.91333 / -94.3725
Lat/Long (dms):	38 54 48 / 94 22 21

Tanks:

Owner:

Owner ID:	OW10685
Owner Name:	PLUS CORP INC
Owner Address:	351 SE 3RD STREET
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5548039
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1999-06-04 00:00:00
Name of Person Editing Record:	NREQHW-VEITS

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1979
Tank Material:	Steel
Date Tank Last Used:	08/25/1998
Date Tank Permanently Closed/ Removed:	06/22/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	05/06/2002
Person Adding/Editing Record:	NEVINS, H.
Date Of NFA Letter:	06/22/1998
Is Tank Used For Emergency Generator:	No

QUIKTRIP STORE #162 (Continued) **1000471258**

Date Closure Notice Received:	06/22/1998
Date Of Aprroval Letter:	06/22/1998
Firm Closing Tank:	KNIGHTLY ENVIRONMENTAL INC
Date Closure Report Received:	12/03/1998
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	31386
Tank PK:	31386
Compartment Status:	Removed
Capacity:	8000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1998-08-25 00:00:00
Pipe System:	1
Pipe Material:	3
Pipe Protection:	2
Pipe Protection Date:	1992-07-14 00:00:00
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW10685
Owner Name:	PLUS CORP INC
Owner Address:	351 SE 3RD STREET
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5548039
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1999-06-04 00:00:00
Name of Person Editing Record:	NREQHW-VEITS

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1984
Tank Material:	Fiberglass
Date Tank Last Used:	08/25/1998
Date Tank Permanently Closed/ Removed:	06/22/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	01/27/1999
Person Adding/Editing Record:	N$HUTSF1
Date Of NFA Letter:	06/22/1998
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/22/1998
Date Of Aprroval Letter:	06/22/1998
Firm Closing Tank:	KNIGHTLY ENVIRONMENTAL INC
Date Closure Report Received:	12/03/1998
LockOut Flag:	No

QUIKTRIP STORE #162 (Continued) **1000471258**

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	31387
Tank PK:	31387
Compartment Status:	Removed
Capacity:	10000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1998-08-25 00:00:00
Pipe System:	1
Pipe Material:	3
Pipe Protection:	2
Pipe Protection Date:	1992-07-14 00:00:00
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW22363
Owner Name:	UNIVERSITY HALL MANAGEMENT LLC
Owner Address:	15740 E HWY 40 SUITE C
Owner City,St,Zip:	KANSAS CITY, MO 64136
Owner Phone:	7868815
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Record Added:	2017-04-12 00:00:00
Date Record Edited:	2017-04-12 00:00:00
Name of Person Editing Record:	BERVE, TRISHA

Tank ID:	3
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Curently in use**
Date Tank Installed:	05/10/1999
Tank Material:	Fiberglass
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/04/1999
Date Record Edited:	08/24/2023
Person Adding/Editing Record:	ORAVETZ, A
Is Tank Used For Emergency Generator:	No
Registration End Date:	09/30/2024
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	31388
Tank PK:	31388
Compartment Status:	Curently in use
Capacity:	12000
Substance:	R
Mixture:	False
Pipe Installation Date:	1999-05-10 00:00:00
Pipe System:	1

QUIKTRIP STORE #162 (Continued) **1000471258**

Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Owner:

Owner ID:	OW22363
Owner Name:	UNIVERSITY HALL MANAGEMENT LLC
Owner Address:	15740 E HWY 40 SUITE C
Owner City,St,Zip:	KANSAS CITY, MO 64136
Owner Phone:	7868815
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Record Added:	2017-04-12 00:00:00
Date Record Edited:	2017-04-12 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:	05/10/1999
Tank Material:	Fiberglass
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/04/1999
Date Record Edited:	08/24/2023
Person Adding/Editing Record:	ORAVETZ, A
Is Tank Used For Emergency Generator:	No
Registration End Date:	09/30/2024
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	31389
Tank PK:	31389
Compartment Status:	Curently in use
Capacity:	6000
Substance:	P
Mixture:	False
Pipe Installation Date:	1999-05-10 00:00:00
Pipe System:	1
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	True

Tank Aug 2011:

Facility Id:	ST0012562
Tank Id:	3
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No

QUIKTRIP STORE #162 (Continued) **1000471258**

Surface Cap:	No
No Excavation:	No
Facility Id:	ST0012562
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:	ST0012562
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:	ST0012562
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

RCRA Listings:

Date Form Received by Agency:	19990305
Handler Name:	Quiktrip Store #162
Handler Address:	E 3RD ST
Handler City,State,Zip:	LEES SUMMIT, MO 64063
EPA ID:	MOD985794411
Contact Name:	DAVE CISIEWSKI
Contact Address:	1023 EXECUTIVE PKWY
Contact City,State,Zip:	ST LOUIS, MO 63141
Contact Telephone:	314-878-1221
EPA Region:	07
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Mailing Address:	EXECUTIVE PKWY
Mailing City,State,Zip:	ST LOUIS, MO 63141
Owner Name:	Quiktrip Corp
Owner 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

QUIKTRIP STORE #162 (Continued) **1000471258**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
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:	20041213
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D018
Waste Description:	Benzene

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: QUIKTRIP CORP	
Legal Status:	Private
Owner/Operator Indicator:	Owner
Owner/Operator Name: QUIKTRIP CORP	
Legal Status:	Private

Historic Generators:

Receive Date:	19901217
Handler Name: QUIKTRIP STORE #162	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

QUIKTRIP STORE #162 (Continued) **1000471258**

Receive Date:		19990305
Handler Name:	QUIKTRIP STORE #162	
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 Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003963729

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

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

ECHO:

Envid:	1000471258
Registry ID:	110003963729
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003963729
Name:	QUIKTRIP STORE #162
Address:	351 E 3RD ST
City,State,Zip:	LEES SUMMIT, MO 64063

G27 **SERVICE STATION** **RCRA NonGen / NLR** **1000432796**
SW **101 W 3RD ST** **FINDS** **MOD000677351**
1/8-1/4 **LEES SUMMIT, MO 64063** **ECHO**
0.187 mi.
985 ft. **Site 2 of 4 in cluster G**

Relative:
Higher

Actual:
1052 ft.

RCRA Listings:

Date Form Received by Agency:	20070313
Handler Name:	Service Station
Handler Address:	W 3RD ST
Handler City,State,Zip:	LEES SUMMIT, MO 64063-2326
EPA ID:	MOD000677351
Contact Name:	STANLEY CAMPBELL
Contact Address:	101 W 3RD ST
Contact City,State,Zip:	LEES SUMMIT, MO 64063
EPA Region:	07
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Mo
State District:	01
Mailing Address:	W 3RD ST
Mailing City,State,Zip:	LEES SUMMIT, MO 64063
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
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:	20070509
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

SERVICE STATION (Continued) **1000432796**

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: Ignitable Waste

Historic Generators:
Receive Date: 20070313
Handler Name: SERVICE STATION
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: Yes

Receive Date: 19800818
Handler Name: SERVICE STATION
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

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003938892

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the

SERVICE STATION (Continued) **1000432796**

Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

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

ECHO:

Envid:	1000432796
Registry ID:	110003938892
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003938892
Name:	SERVICE STATION
Address:	101 W 3RD ST
City,State,Zip:	LEES SUMMIT, MO 64063

H28 **HUBLOU'S BODY SHOP** **MO LUST** **U001163151**
South **1 SE 4TH ST** **MO UST** **N/A**
1/8-1/4 **LEES SUMMIT, MO 64063** **MO RRC**
0.194 mi.
1022 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
1041 ft.

LUST:

Name:	HUBLOU'S BODY SHOP
Address:	1 SE 4TH ST
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST0008117
Region:	KC - Kansas City Regional Office
Release Date:	09/28/1992
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	08/06/1992
Date Cleanup Finished:	02/28/1995
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Remediation ID:	R003452
RBCA NFA:	No
Project Manager:	L
Date Added:	06/30/1995
Facility Sent To State Archive:	Yes
Site Affectd By Funding Level From PSTIF:	No
General Comments:	2-28-95 - JM - SITE CLOSED.

UST:

Facility ID:	ST0008117
Region:	KC
Easting:	380685.179
Northing:	4307749.26
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	VANCE, S
Date GIS Data Collected:	08/27/2013
Lat/Long:	38.9105199 / -94.376413

Tanks:

Owner:

Owner ID:	OW05507
Owner Name:	HUBLOU'S BODY SHOP
Owner Address:	1 SE 4TH STREET

HUBLOU'S BODY SHOP (Continued) **U001163151**

Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5244900
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	1
Tank Double Wall:	-1
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1957
Tank Material:	Steel
Date Tank Last Used:	07/01/1992
Date Tank Permanently Closed/ Removed:	09/01/1992
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	07/19/2012
Person Adding/Editing Record:	KIRCHNER, M
Date Of NFA Letter:	03/02/1995
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	07/28/1992
Date Of Aprroval Letter:	03/02/1995
Firm Closing Tank:	QUALITY REMEDIATIONS CO
LockOut Flag:	No
Comments:	2-5,000 & 2-6,000 GAS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	20357
Tank PK:	20357
Compartment Status:	Removed
Capacity:	5000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1992-07-01 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW05507
Owner Name:	HUBLOU'S BODY SHOP
Owner Address:	1 SE 4TH STREET
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5244900
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	2

HUBLOU'S BODY SHOP (Continued) **U001163151**

Tank Double Wall:	-1
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1957
Tank Material:	Steel
Date Tank Last Used:	07/01/1992
Date Tank Permanently Closed/ Removed:	09/01/1992
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	07/19/2012
Person Adding/Editing Record:	KIRCHNER, M
Date Of NFA Letter:	03/02/1995
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	07/28/1992
Date Of Aprroval Letter:	03/02/1995
Firm Closing Tank:	QUALITY REMEDIATIONS CO
LockOut Flag:	No
Comments:	2-5,000 & 2-6,000 GAS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	20358
Tank PK:	20358
Compartment Status:	Removed
Capacity:	5000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1992-07-01 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW05507
Owner Name:	HUBLOU'S BODY SHOP
Owner Address:	1 SE 4TH STREET
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5244900
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	3
Tank Double Wall:	-1
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1957
Tank Material:	Steel
Date Tank Last Used:	07/01/1992
Date Tank Permanently Closed/ Removed:	09/01/1992
Tank Fees Waived:	No
Expedite Closure On Tank?:	No

HUBLOU'S BODY SHOP (Continued) **U001163151**

Date Record Added:	06/30/1995
Date Record Edited:	07/19/2012
Person Adding/Editing Record:	KIRCHNER, M
Date Of NFA Letter:	03/02/1995
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	07/28/1992
Date Of Aprroval Letter:	03/02/1995
Firm Closing Tank:	QUALITY REMEDIATIONS CO
LockOut Flag:	No
Comments:	2-5,000 & 2-6,000 GAS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	20359
Tank PK:	20359
Compartment Status:	Removed
Capacity:	6000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1992-07-01 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW05507
Owner Name:	HUBLOU'S BODY SHOP
Owner Address:	1 SE 4TH STREET
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5244900
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	4
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Date Tank Installed:	01/01/1957
Date Tank Last Used:	07/01/1992
Date Tank Permanently Closed/ Removed:	09/01/1992
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	07/19/2012
Person Adding/Editing Record:	KIRCHNER, M
Date Of NFA Letter:	09/10/1992
Is Tank Used For Emergency Generator:	No
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	20360

HUBLOU'S BODY SHOP (Continued) **U001163151**

Tank PK:	20360
Compartment Status:	Removed
Capacity:	6000
Mixture:	False
Date of Last Use:	1992-07-01 00:00:00
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0008117
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:	ST0008117
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:	ST0008117
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:	ST0008117
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

RRC:

Name:	SPEEDY LUBE
Address:	1 S.E. 4TH STREET
City,State,Zip:	LEE'S SUMMIT, MO 64063
City,State,Zip:	LEE'S SUMMIT, MO 64063
Classification:	U

HUBLOU'S BODY SHOP (Continued) **U001163151**

Facility ID:	220
Facility Contact:	BRIAN MODEREGER
Facility Phone:	(816) 524-4383
EPA Id:	MOG000A07632
Missouri Id:	A07632
Job Code:	Not reported
Process:	BURNS WASTE OIL
Exp Date:	08/08/1989
Region:	KCRO
Status:	R
Contact Address:	1 S.E. 4TH ST.
Contact City:	LEE'S SUMMIT
Contact State:	MO
Contact Zip:	64063
WO:	Y
Char:	N
Listed:	Y
UGS:	N
AGS:	Y
DRS:	N
Reports:	Quarterly
Facility Type:	C
Not Date:	Not reported
Exp Date:	08/08/1991

H29 **HUBLOU'S BODY SHOP** **UST FINDER** **1028470065**
South **1 SE 4TH ST** **UST FINDER RELEASE** **N/A**
1/8-1/4 **LEES SUMMIT, MO 64063**
0.194 mi.
1022 ft. **Site 2 of 2 in cluster H**

Relative: **Higher**
Actual: **1041 ft.**

UST FINDER:

Object ID:	267848
Facility ID:	MOST0008117
Name:	HUBLOU'S BODY SHOP
Address:	1 SE 4TH ST
City,State,Zip:	LEES SUMMIT, MO 64063
Open USTs:	0
Closed USTs:	4
TOS USTs:	0
Population 1500ft:	474
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	No
Within WHPA:	No
Facility Status:	Closed UST(s)
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.376141
Y Coord:	38.91054
Latitude:	38.91054
Longitude:	-94.376141

UST FINDER:

Object ID:	940368
Facility ID:	MOST0008117
Tank ID:	MO20359

HUBLOU'S BODY SHOP (Continued) **1028470065**

Tank Status: Closed
Installation Date: 1957/01/01 16:00:01+00
Tank Capacity: 6000
Substances: Gasoline, Including Blends
Tank Wall Type: Double

Object ID: 940369
Facility ID: MOST0008117
Tank ID: MO20358
Tank Status: Closed
Installation Date: 1957/01/01 16:00:01+00
Tank Capacity: 5000
Substances: Gasoline, Including Blends
Tank Wall Type: Double

Object ID: 940370
Facility ID: MOST0008117
Tank ID: MO20357
Tank Status: Closed
Installation Date: 1957/01/01 16:00:01+00
Tank Capacity: 5000
Substances: Gasoline, Including Blends
Tank Wall Type: Double

Object ID: 940371
Facility ID: MOST0008117
Tank ID: MO20360
Tank Status: Closed
Installation Date: 1957/01/01 16:00:01+00

UST FINDER RELEASE:
Object ID: 11489
Facility ID: MOST0008117
Lust ID: MOR003452
Name: HUBLOU'S BODY SHOP
Address: 1 SE 4TH ST
City,State,Zip: LEES SUMMIT, MO 64063
Reported Date: 1992/09/28 15:59:59+00
Status: No Further Action
Population within 1500ft: 473
Domestic Wells within 1500ft: 0
Land Use: Developed, High Intensity
Within SPA: No
Within WHPA: No
Within 100yr Floodplain: No
EPA Region: 7
Coordinate Source: State
X Coord: -94.3761499999999
Y Coord: 38.9105500000001
Latitude: 38.91055
Longitude: -94.3761499999999

G30 **STAN CAMPBELL** **MO LUST** **U004198445**
SW **101 SW 3RD ST** **MO UST** **N/A**
1/8-1/4 **LEES SUMMIT, MO 64063**
0.208 mi.
1098 ft. **Site 3 of 4 in cluster G**

Relative:
Higher

Actual:
1053 ft.

LUST:

Name:	STAN CAMPBELL
Address:	101 SW 3RD ST
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST0004165
Region:	KC - Kansas City Regional Office
Lat/Long (dms):	39 6 30 / 94 35 15
Release Date:	02/25/2013
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	06/26/2013
Date Cleanup Finished:	06/16/2021
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	5
Active:	No
Date Of NFA Letter From DNR:	**2021-06-29 00:00:00**
Remediation ID:	R008823
Rank:	44
Contractor Performing Clean Up:	436
RBCA NFA:	Yes
Project Manager:	4
Date Added:	06/27/2013
Date Record Edited:	09/15/2021
Person Adding Or Editing Record:	LUTHER, L
Facility Sent To State Archive:	Yes
General Comments:	Requesting R# for ST4165 due to contamination found in soil and groundwater during phase II. The previous R, 1524, has no indication of groundwater contamination thus requesting a new R#. 6/26/13 MAD- Received WP for an initial site evaluation. Contamination was found on site in soil and groundwater during a phase II. Owner is getting ready to do construction on-site which includes buidling of a new building. The purpose of WP is to evaluate potential risk in area where new building is set to go up further SC work will be conducted after this construction project. WP propose 3 SB in footprint of new proposed building. Approved with comment that while TW1 and TW2 are close to similiar borings advanced during the phase II, no GW data was previously collected from location assocaited with TW3 and deparemtn recommends collecting a GW from this location. 7/18/13 MAD- Received copy of PSTIF letter. Approved costs for 3 MW. 12/30/13 MAD- Received copy of table for soil and groundwater data for 3 MWs (no lab data just table) via email. Temp wells placed in area where building is to be constructed. GW contamination in TW1 and TW3 but below residential RBTLs. LL asked the wells be properly closed prior to construction and that we look forward to receiving compelted report. 1/21/14 MAD- Received CN for 1 used oil UST 3/20/14 MAD- Closure Scheduled for 3/20/14 3/27/14 MAD- Spoke with UES (Sam). Closure has been completed and CR should be submitted with 60 days. Still awaiting on-site construction (owner still working with city for permits). UES will update when

STAN CAMPBELL (Continued) **U004198445**

construction completed and wells are to be installed. 5/13/14 MAD- received CR. No GW encountered during closure, and soil samples contained heavy metal contamination below non-residential. Closure good, Requested WP to continue R8823 and include heavy metals in sampling going forward. 6/7/2014 MA rev a limited SC report documenting the installation of three temporary MWs. The analytical results of soil samples indicate the presence of B compound in TMW-3 at concentrations exceeding the Tier 1 Soil Type 1 non-resident RBTLs. Requested the submittal of a WP proposing the installation of permanent monitoring wells to further delineate the extent of contamination in all directions and to collect data necessary to complete a risk assessment. 10/26/2014 MA approved WP proposing to conduct limited site characterization by the installation of four SBs/MWs to further assess the extent of contamination in soil and groundwater on eastern boundary of the property and along righ-of-way. Soil and GW samples will be collected and submitted for analysis. After completion, a report of completed activities will be submitted along with findings, conclusions, and recommendations. 6/24/2015 MA rev a limited SC report documenting the installatino of three MWs MW-1 through MW-3 and one soil boring. The analytical results of soil samples indicate the presence of elevated benzene concentration exceeding the Tier 1 RBTL in MW-1. In addition elevated Benzene concentration was previously detected in TMW-3 that warrant further SC to fully define the extent of contamination in soil and GW. Installation of SB/MW is needed east, west and south of MW-1 and north of TMW-3. The WP may include proposal to collect data necessary to complete a risk assessment. 9/16/2015 MA Approved WP proposing to conduct additional site characterization by the installation of 6SBs/MWs to fully define the extent of contamination in soil and groundwater. A report of completed activities will be submitted. 2/1/2016 MA PSTIF approved cost for installation of five SBs, two MWs, and one round of GW sampling event. 2/6/2016 MA rev a WP similary to the WP approved in Oct 2015. The Dept approval letter was sent in Oct 2015. No need to send a second approval letter. 11/1/2016 MA rev a SC report documenting the installation of five SBs and two MWs. Elevated benzene concentrations exceeding the Tier 1 Soil Type 1 residential RBTLs were detected in soil samples collected from B3, MW-1, MW4, and MW-5 that warrant additional SC. In addition, elevated benzene concentrations exceeding residential RBTLs were detected in MW-1 and MW-4 that warrant additional delineation. The site is located in a mixed residential and non-residential setting. Therefore, off-site delineation is required to residential RBTLs. Requested the submittal of a WP proposing to conduct additional SC to fully define the extent of contamination for risk assessment. 6/26/2017 MA approved WP proposing to conduct additional SC by the installation of 4 SBs/MWs to further delineate the extent of contamination in soil and groundwater, conduct one round of GW sampling event by collecting GW samples from 9 MWs, and submit a complete risk assessment report. 8/22/2018 MA sent an email to Mr.

STAN CAMPBELL (Continued) **U004198445**

Sam Petrie with UES requesting a site status update of completed along with recommendations for the next course of action within 60 days. 10/23/2018 MA sent a letter requesting a site status update of completed activities. A LOW will be sent on Dec. 23, 2018. 12/11/18:HM: Reviewed SC and T-1 report dated 10/16/18. Requested resposne to certain items. 2/21/19:HM: Requested a resposne to our previous letter. 4/2/19:HM: Reviewed response and SC and GW monit work plan dated 3/26/19. 7/24/19:HM: Requested a report. 8/29/19:HM: Received the following email update "Hashim, We will be submitting a report within 30 days of this email on the above mentioned site. Sam 8/29/19:HM: Requested submittal of a request for time extension with justifications. 9/9/19:HM: received the following email update from Sam Petrie "101 SW 3rd Street, Lee's Summit, MO (Stan Campbell - Grider's property): The approved work plan field work has been completed. We are currently working on the finalizing the site characterization report and will be mailing the report to you on September 24th. 10/2/19:HM: Reviewed Tier 1 site characterization and Tier 1 risk assessment report dated September 20, 2019. Most of soil contamination is in the saturated zone. Soil concentrations in the vadose zone and groundwater are below Tier 1 RBTLs for a nonresident. Risk was assessment for the new building that is constructed in 2015 and used as a dental office. 1/6/20:HM: Requested a GW monit report. 1/31/20:HM: reviewed the groundwater monitoring report dated January 13, 2020. 5/13/20:HM: Reiewed GW report dated 4/14/20. 7/22/20:HM: Reviewed GW monit report dated 7/10/20. 11/2/20:HM: Requested a GW monit report. 12/18/20:HM: Reviewed groundwater monitoring report dated December 4, 2020. 3/16/21:HM: reviewed the groundwater monitoring report dated February 26, 2021. 6/16/21:HM: Reviewed GW monit and plume stability report dated June 4, 2021. Prepaed NFA 6/29/2021 Issued NFA

Name:	STAN CAMPBELL
Address:	101 SW 3RD ST
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST0004165
Region:	KC - Kansas City Regional Office
Lat/Long (dms):	39 6 30 / 94 35 15
Release Date:	10/24/1989
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	10/24/1989
Date Cleanup Finished:	03/16/1990
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Remediation ID:	R001524
RBCA NFA:	No
Project Manager:	L
Date Added:	06/30/1995
Date Record Edited:	08/10/1998
Person Adding Or Editing Record:	N$GARRV1
Facility Sent To State Archive:	Yes

STAN CAMPBELL (Continued) **U004198445**

Site Affectd By Funding Level From PSTIF: No

UST:

Facility ID:	ST0004165
Region:	KC
Easting:	380424.956
Northing:	4307802.86
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	CON_Fortin,Joel
Date GIS Data Collected:	02/12/2014
Lat/Long:	39.10833 / -94.5875
Lat/Long (dms):	39 6 30 / 94 35 15

Tanks:

Owner:

Owner ID:	OW02233
Owner Name:	STAN CAMPBELL
Owner Address:	101 W 3RD []
Owner City,St,Zip:	KANSAS CITY, MO 64064
Owner County Code:	95
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**
Tank Material:	Steel
Date Tank Last Used:	09/25/1989
Date Tank Permanently Closed/ Removed:	09/25/1989
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	08/09/2021
Person Adding/Editing Record:	LUTHER, L
Date Of NFA Letter:	03/16/1990
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	09/25/1989
Date Of Aprroval Letter:	09/25/1989
Firm Closing Tank:	KINGSTON ENVIRONMENTAL S
Date Closure Report Received:	11/04/1989
LockOut Flag:	No

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	10133
Tank PK:	10133
Compartment Status:	Removed
Capacity:	8000
Substance:	Gasoline, Including Blends
Mixture:	False
Date of Last Use:	1990-03-16 00:00:00
Pipe Material:	1
Pipe Double Wall:	0

STAN CAMPBELL (Continued) **U004198445**

Spill Protection: False

Owner:
Owner ID: OW02233
Owner Name: STAN CAMPBELL
Owner Address: 101 W 3RD []
Owner City,St,Zip: KANSAS CITY, MO 64064
Owner County Code: 95
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
Tank Material: Steel
Date Tank Last Used: 09/25/1989
Date Tank Permanently Closed/ Removed: 09/25/1989
Tank Fees Waived: No
Expedite Closure On Tank?: No
Date Record Added: 06/30/1995
Date Record Edited: 08/09/2021
Person Adding/Editing Record: LUTHER, L
Date Of NFA Letter: 03/16/1990
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 09/25/1989
Date Of Aprroval Letter: 09/25/1989
Firm Closing Tank: KINGSTON ENVIRONMENTAL S
Date Closure Report Received: 11/04/1989
LockOut Flag: No

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 10134
Tank PK: 10134
Compartment Status: Removed
Capacity: 8000
Substance: Gasoline, Including Blends
Mixture: False
Date of Last Use: 1990-03-16 00:00:00
Pipe Material: 1
Pipe Double Wall: 0
Spill Protection: False

Owner:
Owner ID: OW02233
Owner Name: STAN CAMPBELL
Owner Address: 101 W 3RD []
Owner City,St,Zip: KANSAS CITY, MO 64064
Owner County Code: 95
Mail Was Not Deliverable: Yes
Is Owner Active?: No

STAN CAMPBELL (Continued) **U004198445**

Date Record Added: 1995-06-30 00:00:00

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Tank Material: Steel
Date Tank Last Used: 03/19/2014
Date Tank Permanently Closed/ Removed: 03/19/2014
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: CD
Date Record Added: 06/30/1995
Date Record Edited: 08/09/2021
Person Adding/Editing Record: LUTHER, L
Date Of NFA Letter: 06/29/2021
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 01/21/2014
Date Of Aprroval Letter: 01/27/2014
Firm Closing Tank: UES
Date Closure Report Received: 04/14/2014
LockOut Flag: No
Comments: 1/21/14 MAD- Received CN for this tank. Not previously removed.
5/13/14 MAD- received CR. No GW encountered during closure, and soil samples contained heavy metal contamination below non-residential. Closure good, Requested WP to continue R8823.

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 10135
Tank PK: 10135
Compartment Status: Removed
Capacity: 550
Substance: Other
Mixture: False
Date of Last Use: 1990-03-16 00:00:00
Pipe Material: 1
Pipe Double Wall: 0
Spill Protection: False

Tank Aug 2011:
Facility Id: ST0004165
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: ST0004165
Tank Id: 2
No Drinking Wells: No

STAN CAMPBELL (Continued) **U004198445**

No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0004165
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

G31 **STAN CAMPBELL** **UST FINDER** **1028466595**
SW **101 SW 3RD ST** **UST FINDER RELEASE** **N/A**
1/8-1/4 **LEES SUMMIT, MO 64063**
0.208 mi.
1098 ft. **Site 4 of 4 in cluster G**

Relative:
Higher

Actual:
1053 ft.

UST FINDER:

Object ID:	267857
Facility ID:	MOST0004165
Name:	STAN CAMPBELL
Address:	101 SW 3RD ST
City,State,Zip:	LEES SUMMIT, MO 64063
Open USTs:	0
Closed USTs:	3
TOS USTs:	0
Population 1500ft:	565
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	No
Within WHPA:	No
Facility Status:	Closed UST(s)
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.379151
Y Coord:	38.910987
Latitude:	38.910987
Longitude:	-94.379151

UST FINDER:

Object ID:	942625
Facility ID:	MOST0004165
Tank ID:	MO10135
Tank Status:	Closed
Tank Capacity:	550
Substances:	Other
Tank Wall Type:	Single
Object ID:	942626
Facility ID:	MOST0004165
Tank ID:	MO10134

STAN CAMPBELL (Continued) **1028466595**

Tank Status:	Closed
Tank Capacity:	8000
Substances:	Gasoline, Including Blends
Tank Wall Type:	Single
Object ID:	942627
Facility ID:	MOST0004165
Tank ID:	MO10133
Tank Status:	Closed
Tank Capacity:	8000
Substances:	Gasoline, Including Blends
Tank Wall Type:	Single

UST FINDER RELEASE:

Object ID:	11472
Facility ID:	MOST0004165
Lust ID:	MOR001524
Name:	STAN CAMPBELL
Address:	101 SW 3RD ST
City,State,Zip:	LEES SUMMIT, MO 64063
Reported Date:	1989/10/24 15:59:59+00
Status:	No Further Action
Population within 1500ft:	565
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	No
Within WHPA:	No
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.37916
Y Coord:	38.91099
Latitude:	38.9109899999999
Longitude:	-94.3791599999999
Object ID:	11473
Facility ID:	MOST0004165
Lust ID:	MOR008823
Name:	STAN CAMPBELL
Address:	101 SW 3RD ST
City,State,Zip:	LEES SUMMIT, MO 64063
Status:	Open
Population within 1500ft:	565
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	No
Within WHPA:	No
Within 100yr Floodplain:	No
EPA Region:	7
Coordinate Source:	State
X Coord:	-94.37916
Y Coord:	38.91099
Latitude:	38.9109899999999
Longitude:	-94.3791599999999

I32 **HAWG WYLD INC** **RCRA NonGen / NLR** **1007110859**
SSE **406 SE DOUGLAS** **MOR000504662**
1/8-1/4 **LEES SUMMIT, MO 64063**
0.214 mi.
1128 ft. **Site 1 of 2 in cluster I**

Relative:
Higher

Actual:
1041 ft.

RCRA Listings:

Date Form Received by Agency:	20011114
Handler Name:	Hawg Wyld Inc
Handler Address:	SE DOUGLAS
Handler City,State,Zip:	LEES SUMMIT, MO 64063
EPA ID:	MOR000504662
Contact Name:	LORETTA RIVARD
Contact Address:	406 SE DOUGLAS
Contact City,State,Zip:	LEES SUMMIT, MO 64063
Contact Telephone:	816-524-6107
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Mailing Address:	SE DOUGLAS
Mailing City,State,Zip:	LEES SUMMIT, MO 64063
Owner Name:	Thomas G Talley
Owner 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:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
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:	20011119
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Sub-Part P Indicator:	No

HAWG WYLD INC (Continued) **1007110859**

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: THOMAS G TALLEY
Legal Status: Private
Owner/Operator Address: 7730 LEES SUMMIT RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64139
Owner/Operator Telephone: 816-373-0417

Historic Generators:
Receive Date: 20011017
Handler Name: HAWG WYLD INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20011114
Handler Name: HAWG WYLD INC
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 Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I33 **CALIBER COLLISION CENTER LEES SUMMIT DT 2591** **RCRA-SQG 1001124294**
SSE **410 S DOUGLAS** **FINDS MOR000010173**
1/8-1/4 **LEES SUMMIT, MO 64063** **ECHO**
0.246 mi.
1298 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
1049 ft.

RCRA Listings:
Date Form Received by Agency: 20230517
Handler Name: Caliber Collision Center Lees Summit Dt 2591
Handler Address: 410 SE DOUGLAS ST
Handler City,State,Zip: LEES SUMMIT, MO 64063-4247
EPA ID: MOR000010173
Contact Name: DANIEL DUNCAN
Contact Address: 2941 LAKE VISTA DR
Contact City,State,Zip: LEWISVILLE, TX 75067-3801
Contact Telephone: 816-878-1750

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Contact Email:	DANIEL.DUNCAN@CALIBERCOLLISION.COM
Contact Title:	MANAGER
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Active Site Indicator:	Handler Activities
Mailing Address:	2941 LAKE VISTA DR
Mailing City,State,Zip:	LEWISVILLE, TX 75067-3801
Owner Name:	Caliber Holdings Llc
Owner Type:	Private
Operator Name:	Caliber Holdings Llc
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
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:	20231203
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

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D005
Waste Description:	Barium

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Waste Code: D006
Waste Description: Cadmium

Waste Code: D007
Waste Description: Chromium

Waste Code: D008
Waste Description: Lead

Waste Code: D018
Waste Description: Benzene

Waste Code: D035
Waste Description: Methyl Ethyl Ketone

Waste Code: D039
Waste Description: Tetrachloroethylene

Waste Code: D040
Waste Description: Trichlorethylene

Waste Code: F002
Waste Description: The Following Spent Halogenated Solvents: Tetrachloroethylene, Methylene Chloride, Trichloroethylene, 1,1,1-Trichloroethane, Chlorobenzene, 1,1,2-Trichloro-1,2,2-Trifluoroethane, Ortho-Dichlorobenzene, Trichlorofluoromethane, And 1,1,2, Trichloroethane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Halogenated Solvents Or Those Solvents Listed In F001, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F003
Waste Description: The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F005
Waste Description: The Following Spent Nonhalogenated Solvents: Toluene, Methyl Ethyl Ketone, Carbon Disulfide, Isobutanol, Pyridine, Benzene, 2-Ethoxyethanol, And 2-Nitropropane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, Or F004; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: TOM TALLEY
Legal Status: Private

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Owner/Operator Address: 410 S DOUGLAS
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-524-5566

Owner/Operator Indicator: Operator
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Operator
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 1841 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Operator
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Owner/Operator City,State,Zip: LEWISILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Owner
Owner/Operator Name: TOM TALLEY
Legal Status: Private
Owner/Operator Address: 410 S DOUGLAS
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-524-5566

Owner/Operator Indicator: Operator
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 1841 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Owner
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Operator
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

Owner/Operator Indicator: Operator
Owner/Operator Name: TOM TALLEY
Legal Status: Private
Date Became Current: 20100820
Owner/Operator Address: 410 S DOUGLAS
Owner/Operator City,State,Zip: LEES SUMMIT, MO 64063
Owner/Operator Telephone: 816-524-5566

Owner/Operator Indicator: Operator
Owner/Operator Name: CALIBER HOLDINGS LLC
Legal Status: Private
Date Became Current: 20220404
Owner/Operator Address: 2941 LAKE VISTA DR
Owner/Operator City,State,Zip: LEWISVILLE, TX 75067-3801
Owner/Operator Telephone: 469-948-9500

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Historic Generators:

Receive Date:	20220407
Handler Name:	CALIBER COLLISION CENTER LEES SUMMIT DT 2591
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20220408
Handler Name:	CALIBER COLLISION CENTER LEES SUMMIT DT 2591
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	19961010
Handler Name:	TG AUTO BODY
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20040504
Handler Name:	TG AUTO BODY
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20220404
Handler Name:	CALIBER COLLISION CENTER LEES SUMMIT DT 2591
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Receive Date: 20220908
Handler Name: CALIBER COLLISION CENTER LEES SUMMIT DT 2591
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20230428
Handler Name: CALIBER COLLISION CENTER LEES SUMMIT DT 2591
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20230517
Handler Name: CALIBER COLLISION CENTER LEES SUMMIT DT 2591
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19970930
Actual Return to Compliance Date: 19971006
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19971015
Enforcement Identifier: 000
Date of Enforcement Action: 19971002
Enforcement Responsible Agency: State
Enforcement Attorney: MO
Corrective Action Component: No
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: MOJ B

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20230403
Actual Return to Compliance Date: 20230831
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20230403
Actual Return to Compliance Date: 20230831
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

Found Violation: No

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19970930
Actual Return to Compliance Date: 19971006
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Enforcement Identifier: 000
Date of Enforcement Action: 19970930
Enforcement Responsible Agency: State
Enforcement Attorney: MO
Corrective Action Component: No
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: MOJ B

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20230403
Actual Return to Compliance Date: 20230831
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20230403
Actual Return to Compliance Date: 20230831
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20230403
Actual Return to Compliance Date: 20230831
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20230403
Actual Return to Compliance Date: 20230831
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20230403
Actual Return to Compliance Date: 20230831
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19970930
Actual Return to Compliance Date: 19971006
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19971015
Enforcement Identifier: 000
Date of Enforcement Action: 19971002
Enforcement Responsible Agency: State
Enforcement Attorney: MO
Corrective Action Component: No
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: MOJ B

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19970930
Actual Return to Compliance Date: 19971006
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Enforcement Identifier: 000
Date of Enforcement Action: 19970930
Enforcement Responsible Agency: State
Enforcement Attorney: MO
Corrective Action Component: No
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: MOJ B

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19970930
Actual Return to Compliance Date: 19971006
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Enforcement Identifier: 000
Date of Enforcement Action: 19970930

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Enforcement Responsible Agency:	State
Enforcement Attorney:	MO
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	MOJ B

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19970930
Actual Return to Compliance Date:	19971006
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Enforcement Identifier:	000
Date of Enforcement Action:	19970930
Enforcement Responsible Agency:	State
Enforcement Attorney:	MO
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	MOJ B

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19970930
Actual Return to Compliance Date:	19971006
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19971015
Enforcement Identifier:	000
Date of Enforcement Action:	19971002
Enforcement Responsible Agency:	State
Enforcement Attorney:	MO
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	MOJ B

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19970930
Actual Return to Compliance Date:	19971006
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19971015
Enforcement Identifier:	000
Date of Enforcement Action:	19971002
Enforcement Responsible Agency:	State
Enforcement Attorney:	MO
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	MOJ B

Found Violation:	No

Found Violation:	Yes
Agency Which Determined Violation:	State

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20230403
Actual Return to Compliance Date:	20230403
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20230403
Actual Return to Compliance Date:	20230831
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Evaluation Action Summary:

Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006
Scheduled Compliance Date:	19971015
Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831
Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831
Evaluation Date:	20040916
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOSJT
Evaluation Responsible Sub-Organization:	ENF
Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006
Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831

Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831

Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831

Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831

Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006
Scheduled Compliance Date:	19971015

Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006

Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006

Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006
Scheduled Compliance Date:	19971015

Evaluation Date:	19970930
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOJ B
Actual Return to Compliance Date:	19971006
Scheduled Compliance Date:	19971015

Evaluation Date:	20090929
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MO-PC
Evaluation Responsible Sub-Organization:	ENF

Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230403

Evaluation Date:	20230403
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	MOCS
Actual Return to Compliance Date:	20230831

FINDS:
Registry ID: 110003983280

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Missouri Department of Natural Resources (MO-DNR) involves a resource assessment and monitoring program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

CALIBER COLLISION CENTER LEES SUMMIT DT 2591 (Continued) **1001124294**

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

ECHO:

Envid:	1001124294
Registry ID:	110003983280
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003983280
Name:	CALIBER COLLISION CENTER LEES SUMMIT DT 2591
Address:	410 S DOUGLAS
City,State,Zip:	LEES SUMMIT, MO 64063

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34 **BOWEN OIL CO** **MO LUST U000282830**
South **501 SOUTH MAIN PO BOX 274** **MO UST N/A**
1/4-1/2 **LEES SUMMIT, MO 64063**
0.307 mi.
1622 ft.

Relative:
Higher

Actual:
1057 ft.

LUST:

Name:	BOWEN OIL CO
Address:	501 SOUTH MAIN PO BOX 274
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST0004143
Region:	KC - Kansas City Regional Office
Release Date:	07/24/1989
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	09/18/1989
Date Cleanup Finished:	12/14/1989
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:	**1989-12-14 00:00:00**
Remediation ID:	R001323
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

UST:

Facility ID:	ST0004143
Region:	KC
Easting:	380669.022
Northing:	4307540.51
Geospatial Data Collected By:	INT_STEINBECK,Eli
Date GIS Data Collected:	08/07/2014
Lat/Long:	38.9088895 / -94.376107

Tanks:

Owner:

Owner ID:	OW02224
Owner Name:	BOWEN OIL CO
Owner Address:	PO BOX 274
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063

BOWEN OIL CO (Continued) **U000282830**

Owner County Code:	95
Owner Phone:	5243452
Mail Was Not Deliverable:	No
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:	01/01/1956
Tank Material:	Steel
Date Tank Last Used:	06/09/1989
Date Tank Permanently Closed/ Removed:	12/14/1989
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Of NFA Letter:	12/14/1989
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/09/1989
Date Of Aprroval Letter:	12/14/1989
Firm Closing Tank:	AMERECO ENVIRONMENTAL SER
LockOut Flag:	No
Comments:	FROM LAB

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	10081
Tank PK:	10081
Compartment Status:	Removed
Capacity:	12000
Substance:	Diesel
Mixture:	False
Date of Last Use:	1989-06-09 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW02224
Owner Name:	BOWEN OIL CO
Owner Address:	PO BOX 274
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5243452
Mail Was Not Deliverable:	No
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**

BOWEN OIL CO (Continued) **U000282830**

Date Tank Installed:	01/01/1956
Tank Material:	Steel
Date Tank Last Used:	06/09/1989
Date Tank Permanently Closed/ Removed:	12/14/1989
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Of NFA Letter:	12/14/1989
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/09/1989
Date Of Aprroval Letter:	12/14/1989
Firm Closing Tank:	AMERECO ENVIRONMENTAL SER
LockOut Flag:	No
Comments:	FROM LAB

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	10082
Tank PK:	10082
Compartment Status:	Removed
Capacity:	12000
Substance:	Diesel
Mixture:	False
Date of Last Use:	1989-06-09 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW02224
Owner Name:	BOWEN OIL CO
Owner Address:	PO BOX 274
Owner City,St,Zip:	LEE'S SUMMIT, MO 64063
Owner County Code:	95
Owner Phone:	5243452
Mail Was Not Deliverable:	No
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 Installed:	01/01/1959
Tank Material:	Steel
Date Tank Last Used:	06/09/1989
Date Tank Permanently Closed/ Removed:	12/14/1989
Tank Fees Waived:	Yes
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Of NFA Letter:	12/14/1989
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/09/1989
Date Of Aprroval Letter:	12/14/1989

BOWEN OIL CO (Continued) **U000282830**

Firm Closing Tank:	AMERECO ENVIRONMENTAL SER
LockOut Flag:	No
Comments:	FROM LAB

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	10083
Tank PK:	10083
Compartment Status:	Removed
Capacity:	12000
Substance:	Diesel
Mixture:	False
Date of Last Use:	1989-06-09 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0004143
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:	ST0004143
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:	ST0004143
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

35 **FORMER MFA OIL** **MO LAST** **S106514129**
South **4 SW 6TH ST** **MO TANKS** **N/A**
1/4-1/2 **LEES SUMMIT, MO 64063**
0.423 mi.
2234 ft.

Relative:
Higher

Actual:
1046 ft.

LAST:

Name:	FORMER MFA OIL
Address:	4 SW 6TH ST
City,State,Zip:	LEES SUMMIT, MO 64063
Facility ID:	ST3007137
Lat/Long:	38.907368929 / -94.376248849
Region:	KC
Remediation ID:	R007453
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009:	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Rank:	62
Release Date:	05/01/2000
Release Type:	A
Date Cleanup Started:	10/04/2004
Date Cleanup Finished:	03/22/2005
Contractor Performing Clean Up:	271
RBCA NFA:	Yes
Date Of NFA Letter From DNR:	2005-04-06 00:00:00
Project Manager:	4
Date Added:	07/09/2002
Date Record Edited:	04/13/2005
Person Adding Or Editing Record:	HUTSON, F
Facility Sent To State Archive:	No
Site Affectd By Funding Level From PSTIF:	No
General Comments:	7/9/2002:HM:Revd SA report of June 27, 2000 and SA WP of March 28, 2002. Contam in soil & GW, made R7453. 10/2/2002:HM:Recvd SA report of Sept 2002. Approvd soil excav and requested a WP. 1/20/2002:HM:Revd WP for excav of 2000 cy. Delayed WP review until find the results of the meetng between Mark Schulze and Tracy Barth to submit cost comparisons or SC WP as requested by PSTIF. 12/31/02:HM:Denid SC WP of Dec 20, 02. Reqestd a revised plan. 3/11/03:HM:Approvd SC WP addendum of Feb 28, 03 with modific 7/8/03:HM:Recvd and responded to the letter of June 24, 03 about off site access and copies of reports. 10/30/03:HM:Rewqestd site update. 3-18-04 FJH rec'd. phone call from Mark Schultz, MHS Env., discussed Tier 1 MRBCA and groundwater sampling. Mark proposes one round of GW sampling, Tier 1 risk assessment then propose add'l. monitoring as may be nec. To demonstrate plume stability. I said, OK. Please fax a short proposal for the GW event to Hashim. 4/10/04 kk rev site characterization and work plan dated 10/15/04. Cont in soil at B-7,8,9, and 10. Fred asked for proposal to sample gw as indicated in this work plan. Filed without response. 4/16/04:HM:reqestd a SC accord to MRBCA. 5/12/04:HM:recvd and approvd GW and Tier I assessment plan dated April 26, 04. 7/6/04:HM:Recvd letter of June 15, 04. Reqestd add SC. 10/19/04:HM:Recvd RA report of Oct 4, 04. Prepared response. 3/22/05HM:recvd letter of March 2, 05 and Notice of deed. Issued NFRA.

TANKS:

Facility ID:	ST3007137
Name:	FORMER MFA OIL

FORMER MFA OIL (Continued) **S106514129**

Address:	4 SW 6TH ST
City,State,Zip:	LEES SUMMIT, MO 64063
Region:	KC
Geo Owner:	5
Geo Collect:	CORBIN, M
Date GIS Data Collected:	04/22/2013
Easting:	380670.519
Northing:	4307397.50

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	03/22/2023	03/22/2023	06/06/2023
MO	ASBESTOS	Asbestos Notification Listing	Department of Natural Resources	10/02/2023	10/05/2023	12/20/2023
MO	AST	Aboveground Petroleum Storage Tanks	Department of Agriculture	12/05/2023	12/06/2023	12/11/2023
MO	AUL	Sites with Controls	Department of Natural Resources	08/07/2023	08/08/2023	10/24/2023
MO	BROWNFIELDS	Brownfields Site List	Department of Natural Resources	08/07/2023	08/08/2023	10/24/2023
MO	CDL	Environmental Emergency Response System	Department of Natural Resources	12/28/2023	12/28/2023	12/29/2023
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	11/30/2017	12/13/2017	01/18/2018
MO	Financial Assurance 1	Financial Assurance Information Listing	Department of Natural Resources	06/09/2023	06/29/2023	09/22/2023
MO	Financial 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	06/30/2022	03/01/2023	05/19/2023
MO	LAST	Leaking Aboveground Storage Tanks	Department of Natural Resources	08/28/2023	09/06/2023	11/22/2023
MO	LUST	Leaking Underground Storage Tanks	Department of Natural Resources	08/28/2023	09/06/2023	11/22/2023
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	12/19/2023	12/27/2023	12/28/2023
MO	PFAS	PFAS Detections	Department of Natural Resources	01/02/2024	01/10/2024	01/17/2024
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	10/03/2023	10/25/2023	01/18/2024
MO	SPILLS	Environmental Response Tracking Database	Department of Natural Resources	12/28/2023	12/28/2023	12/29/2023
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	08/21/2023	08/22/2023	11/06/2023
MO	SWRCY	Solid Waste Recycling Facilities	Department of Natural Resources	06/07/2023	06/08/2023	08/30/2023
MO	TANKS	Underground Storage Tank Database	Department of Natural Resources	08/28/2023	09/06/2023	11/22/2023
MO	UIC	Underground Injection Wells Database	Department of Natural Resources	09/01/2022	02/14/2023	04/28/2023
MO	UST	Petroleum Storage Tanks	Department of Natural Resources	08/28/2023	09/06/2023	11/22/2023
MO	VCP	Sites Participating in the Voluntary Cleanup Program	Department of Natural Resources	08/07/2023	08/08/2023	10/24/2023
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	11/28/2023	11/29/2023	12/11/2023
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	09/23/2023	10/03/2023	12/21/2023
US	BIOSOLIDS	ICIS-NPDES Biosolids Facility Data	Environmental Protection Agency	12/31/2023	01/03/2024	01/16/2024
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	12/31/2021	04/14/2023	07/10/2023
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	12/31/2023	01/11/2024	01/16/2024
US	CORRACTS	Corrective Action Report	EPA	12/04/2023	12/06/2023	12/12/2023
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	12/26/2023	01/02/2024	01/24/2024
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/23/2023	10/03/2023	01/04/2024

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
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	09/18/2023	09/20/2023	12/11/2023
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/20/2023	12/20/2023	01/24/2024
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	03/08/2023	03/09/2023	05/30/2023
US	FINDS	Facility Index System/Facility Registry System	EPA	11/03/2023	11/08/2023	11/20/2023
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	08/07/2023	08/15/2023	10/10/2023
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	08/14/2023	08/15/2023	10/19/2023
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	09/18/2023	09/20/2023	11/14/2023
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	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	04/20/2023	05/09/2023	07/14/2023
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/14/2023	05/09/2023	07/14/2023
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/26/2023	05/09/2023	07/14/2023
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/25/2023	05/09/2023	07/14/2023
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	04/19/2023	05/09/2023	07/14/2023
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/19/2023	05/09/2023	07/14/2023
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	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/14/2023	05/09/2023	07/14/2023
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/26/2023	05/09/2023	07/14/2023
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	04/25/2023	05/09/2023	07/14/2023
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	04/20/2023	05/09/2023	07/14/2023
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/19/2023	05/09/2023	07/14/2023
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	12/26/2024	01/02/2024	01/24/2024
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	11/14/2023	12/22/2023	01/24/2024
US	LUCIS	Land Use Control Information System	Department of the Navy	08/03/2023	08/07/2023	10/10/2023
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	01/02/2024	01/03/2024	01/04/2024
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	07/20/2023	09/01/2023	09/20/2023
US	NPL	National Priority List	EPA	12/26/2023	01/02/2024	01/24/2024

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
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	03/20/2023	04/04/2023	06/09/2023
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	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	09/23/2023	10/03/2023	12/21/2023
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	09/23/2023	10/03/2023	12/21/2023
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	09/23/2023	10/03/2023	12/21/2023
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	09/23/2023	10/03/2023	01/04/2024
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	09/23/2023	10/03/2023	12/21/2023
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	09/23/2023	10/03/2023	12/21/2023
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	12/28/2023	12/28/2023	01/04/2024
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	12/28/2023	12/28/2023	01/04/2024
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	12/28/2023	12/28/2023	01/04/2024
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	09/23/2023	10/03/2023	10/10/2023
US	PRP	Potentially Responsible Parties	EPA	09/19/2023	10/03/2023	10/19/2023
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/26/2023	01/02/2024	01/24/2024
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	12/04/2023	12/06/2023	12/12/2023
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/04/2023	12/06/2023	12/12/2023
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/04/2023	12/06/2023	12/12/2023
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/04/2023	12/06/2023	12/12/2023
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	12/04/2023	12/06/2023	12/12/2023
US	RMP	Risk Management Plans	Environmental Protection Agency	09/01/2023	09/27/2023	12/21/2023
US	ROD	Records Of Decision	EPA	12/26/2023	01/02/2024	01/24/2024
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	09/19/2023	10/03/2023	10/19/2023
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	09/19/2023	10/03/2023	10/19/2023
US	SSTS	Section 7 Tracking Systems	EPA	10/19/2023	10/20/2023	01/16/2024
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2021	08/18/2023	11/07/2023
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	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	08/15/2023	08/30/2023	12/01/2023
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	08/21/2023	08/21/2023	11/07/2023
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	08/21/2023	08/21/2023	11/07/2023
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	09/18/2023	09/20/2023	12/12/2023
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	08/21/2023	08/21/2023	11/07/2023
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	08/21/2023	08/21/2023	11/07/2023
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/01/2023	08/22/2023	11/07/2023
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	01/07/2022	02/24/2023	05/17/2023
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
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	08/07/2023	08/08/2023	10/24/2023
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

FIRE STATION #1
207 SE DOUGLAS
LEES SUMMIT, MO 64063

TARGET PROPERTY COORDINATES

Latitude (North):	38.913711 - 38° 54' 49.36''
Longitude (West):	94.376508 - 94° 22' 35.43''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	380655.6
UTM Y (Meters):	4307894.0
Elevation:	1022 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	24322076 LEES SUMMIT, MO
Version Date:	2021
Northeast Map:	24322074 LAKE JACOMO, 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).

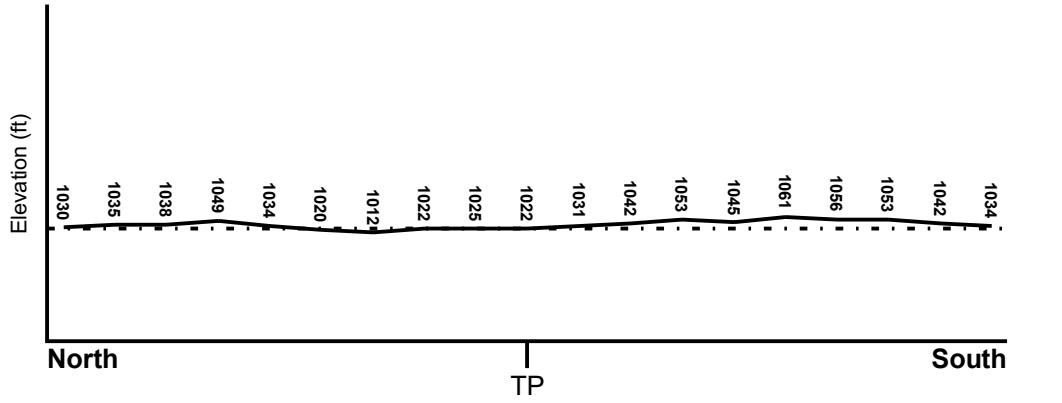
TOPOGRAPHIC INFORMATION

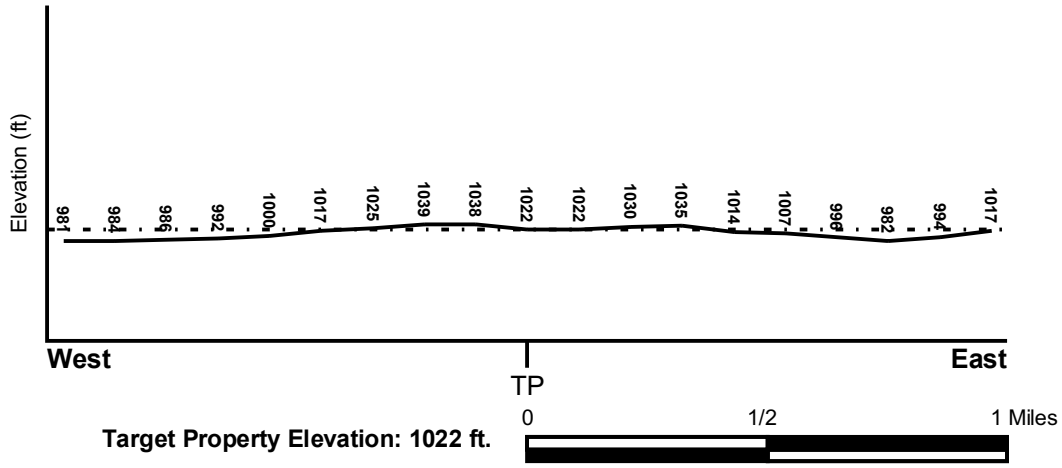
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1022 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
29095C0292F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
29095C0311F	FEMA FIRM Flood data
29095C0294F	FEMA FIRM Flood data
29095C0313F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LEES SUMMIT	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

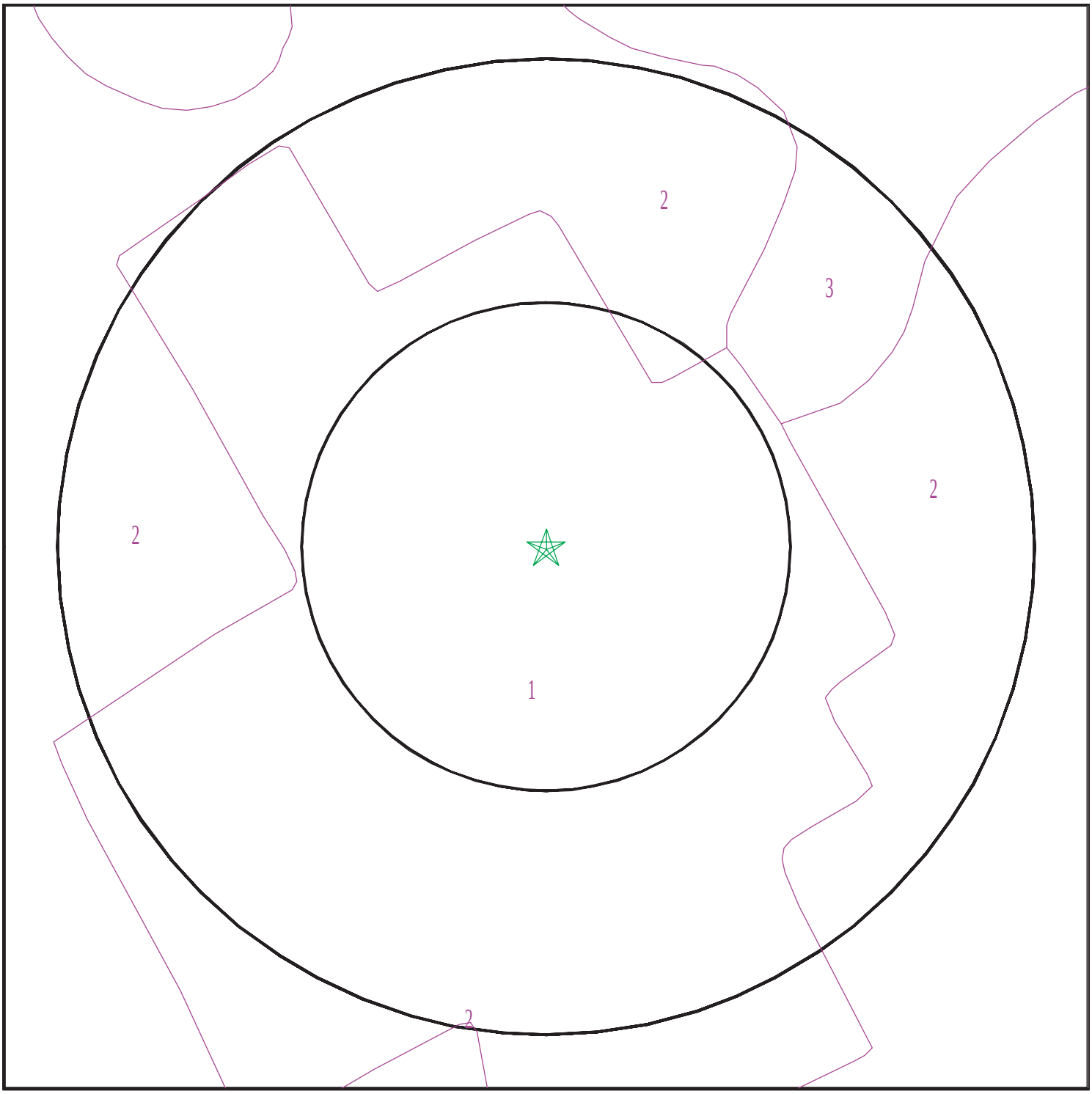
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed 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 - 7554931.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Fire Station #1	CLIENT:	Terracon
ADDRESS:	207 SE Douglas Lees Summit MO 64063	CONTACT:	Marci Brockett
		INQUIRY #:	7554931.2s
LAT/LONG:	38.913711 / 94.376508	DATE:	January 30, 2024 2:43 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

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	5 inches		Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: Macksburg

Soil Surface Texture: silt loam

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

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
2	16 inches	42 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	42 inches	53 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
4	53 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6

Soil Map ID: 3

Soil Component Name: Sampsel

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6
2	7 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS40000696955	1/4 - 1/2 Mile WNW
A3	USGS40000696954	1/2 - 1 Mile ENE
A4	USGS40000696953	1/2 - 1 Mile ENE
5	USGS40000696917	1/2 - 1 Mile South
7	USGS40000696979	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MO1024280	1/4 - 1/2 Mile SW

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A6	MOLOG3000038826	1/2 - 1 Mile ENE

OTHER STATE DATABASE INFORMATION

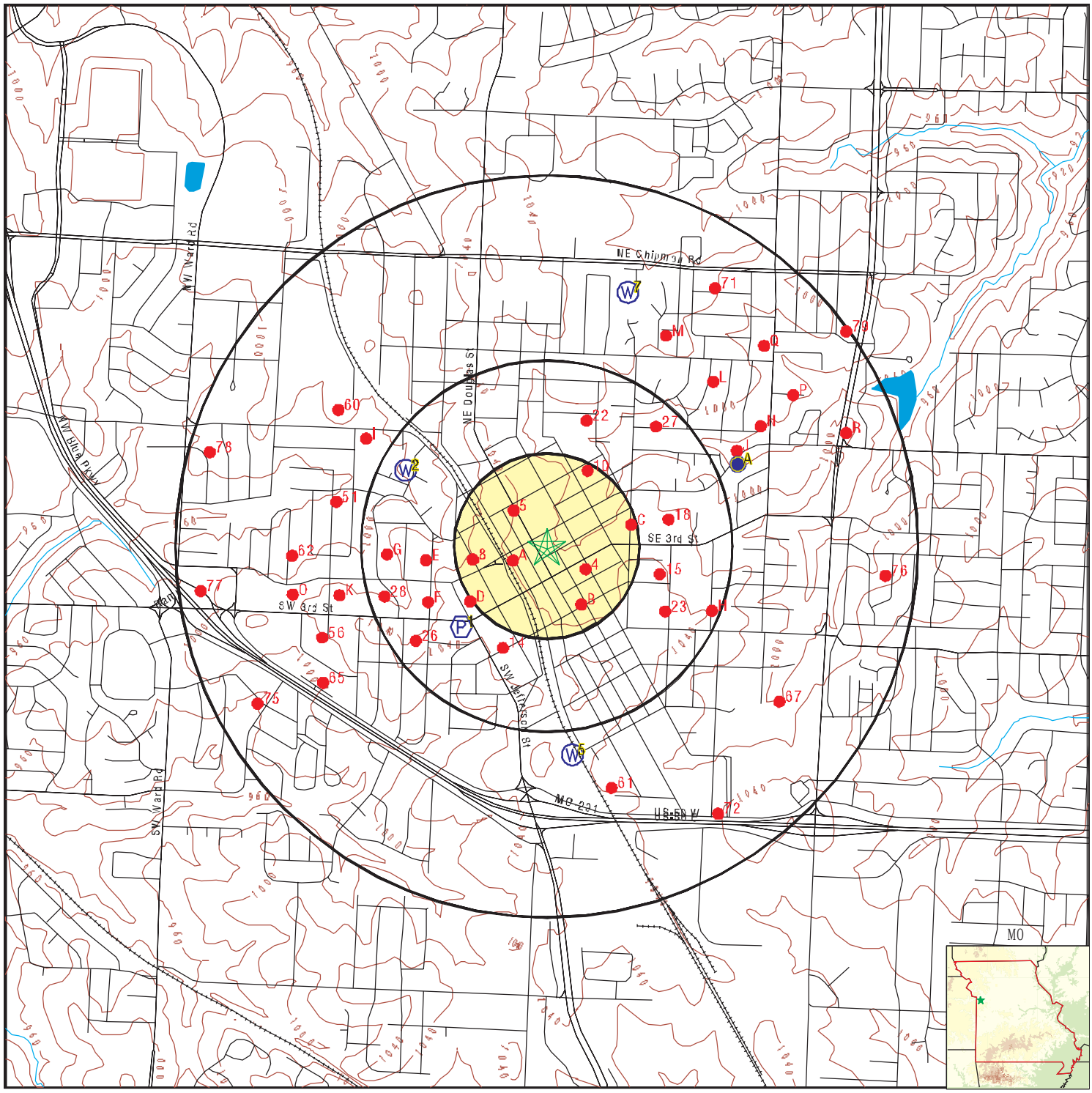
STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	MOOG70000004168	0 - 1/8 Mile WSW
A2	MOOG70000004163	0 - 1/8 Mile WSW
A1	MOOG70000004159	0 - 1/8 Mile WSW
4	MOOG70000004141	0 - 1/8 Mile ESE
5	MOOG70000004167	1/8 - 1/4 Mile NW
B6	MOOG70000004130	1/8 - 1/4 Mile SSE
B7	MOOG70000004139	1/8 - 1/4 Mile SSE
8	MOOG70000004166	1/8 - 1/4 Mile West
C9	MOOG70000004110	1/8 - 1/4 Mile ENE
10	MOOG70000004129	1/8 - 1/4 Mile NNE
D11	MOOG70000004152	1/4 - 1/2 Mile SW
D12	MOOG70000004165	1/4 - 1/2 Mile SW
C13	MOOG70000004115	1/4 - 1/2 Mile East
14	MOOG70000004177	1/4 - 1/2 Mile SSW
15	MOOG70000004111	1/4 - 1/2 Mile ESE
E17	MOOG70000004169	1/4 - 1/2 Mile West
E16	MOOG70000004160	1/4 - 1/2 Mile West
18	MOOG70000004127	1/4 - 1/2 Mile ENE
F21	MOOG70000004155	1/4 - 1/2 Mile WSW
F20	MOOG70000004148	1/4 - 1/2 Mile WSW
F19	MOOG70000004147	1/4 - 1/2 Mile WSW
22	MOOG70000004112	1/4 - 1/2 Mile NNE
23	MOOG70000004137	1/4 - 1/2 Mile ESE
G24	MOOG70000004158	1/4 - 1/2 Mile West
G25	MOOG70000004164	1/4 - 1/2 Mile West
26	MOOG70000004174	1/4 - 1/2 Mile SW
27	MOOG70000004131	1/4 - 1/2 Mile NE
28	MOOG70000004162	1/4 - 1/2 Mile WSW
H29	MOOG70000004117	1/4 - 1/2 Mile ESE
H30	MOOG70000004118	1/4 - 1/2 Mile ESE
H31	MOOG70000005371	1/4 - 1/2 Mile ESE
I32	MOOG70000004153	1/2 - 1 Mile WNW
I39	MOOG70000004157	1/2 - 1 Mile WNW
I38	MOOG70000004156	1/2 - 1 Mile WNW
I35	MOOG70000004151	1/2 - 1 Mile WNW
I36	MOOG70000004161	1/2 - 1 Mile WNW
I37	MOOG70000005372	1/2 - 1 Mile WNW

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I34	MOOG70000004143	1/2 - 1 Mile WNW
I33	MOOG70000004154	1/2 - 1 Mile WNW
J43	MOOG70000004113	1/2 - 1 Mile ENE
J44	MOOG70000004132	1/2 - 1 Mile ENE
J45	MOOG70000004142	1/2 - 1 Mile ENE
J40	MOOG70000004114	1/2 - 1 Mile ENE
J41	MOOG70000004124	1/2 - 1 Mile ENE
J42	MOOG70000004109	1/2 - 1 Mile ENE
J47	MOOG70000004133	1/2 - 1 Mile ENE
J46	MOOG70000005369	1/2 - 1 Mile ENE
J48	MOOG70000004136	1/2 - 1 Mile ENE
K49	MOOG70000004144	1/2 - 1 Mile WSW
K50	MOOG70000004145	1/2 - 1 Mile WSW
51	MOOG70000004173	1/2 - 1 Mile WNW
L52	MOOG70000004125	1/2 - 1 Mile NE
L53	MOOG70000005370	1/2 - 1 Mile NE
M54	MOOG70000004116	1/2 - 1 Mile NNE
M55	MOOG70000004126	1/2 - 1 Mile NNE
56	MOOG70000004175	1/2 - 1 Mile WSW
N57	MOOG70000004120	1/2 - 1 Mile ENE
N59	MOOG70000004135	1/2 - 1 Mile ENE
N58	MOOG70000004121	1/2 - 1 Mile ENE
60	MOOG70000004172	1/2 - 1 Mile WNW
61	MOOG70000004181	1/2 - 1 Mile SSE
62	MOOG70000004146	1/2 - 1 Mile West
O64	MOOG70000004171	1/2 - 1 Mile West
O63	MOOG70000004170	1/2 - 1 Mile West
65	MOOG70000004178	1/2 - 1 Mile WSW
P66	MOOG70000003762	1/2 - 1 Mile ENE
67	MOOG70000004180	1/2 - 1 Mile ESE
Q68	MOOG70000006244	1/2 - 1 Mile NE
P69	MOOG70000004122	1/2 - 1 Mile ENE
Q70	MOOG70000004134	1/2 - 1 Mile NE
71	MOOG70000004128	1/2 - 1 Mile NNE
72	MOOG70000004179	1/2 - 1 Mile SSE
R74	MOOG70000004123	1/2 - 1 Mile ENE
R73	MOOG70000004119	1/2 - 1 Mile ENE
75	MOOG70000004176	1/2 - 1 Mile WSW
76	MOOG70000004140	1/2 - 1 Mile East
77	MOOG70000004149	1/2 - 1 Mile West
78	MOOG70000004150	1/2 - 1 Mile WNW
79	MOOG70000004138	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 7554931.2s



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

0 1/4 1/2 1 Miles

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

N

SITE NAME:	Fire Station #1	CLIENT:	Terracon
ADDRESS:	207 SE Douglas Lees Summit MO 64063	CONTACT:	Marci Brockett
LAT/LONG:	38.913711 / 94.376508	INQUIRY #:	7554931.2s
		DATE:	January 30, 2024 2:42 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SW
1/4 - 1/2 Mile
Higher

FRDS PWS **MO1024280**

Epa region:	07	State:	MO
Pwsid:	MO1024280	Pwsname:	JACKSON CO PWSD #14
Cityserved:	Not Reported	Stateserved:	MO
Zipserved:	Not Reported	Fipscounty:	29095
Status:	Closed	Retpopsrvd:	1075
Pwssvcconn:	430	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	JACKSON CO PWSD #14	Contactorgname:	Not Reported
Contactphone:	0 - -	Contactaddress1:	CITY HALL
Contactaddress2:	207 S.W. MARKET STREET	Contactcity:	LEES SUMMIT
Contactstate:	MO	Contactzip:	64063
Pwsactivitycode:	I		
PWS ID:	MO1024280	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 ID:	MO1024280
Activity status:	Active	Date system activated:	6501
Date system deactivated:	Not Reported	Retail population:	00001075
System name:	JACKSON CO PWSD #14	System address:	CITY HALL
System address:	616 NE DOUGLAS	System city:	LEES SUMMIT
System state:	MO	System zip:	64063
County FIPS:	Not Reported	City served:	LEES SUMMIT
Population served:	1,001 - 2,500 Persons	Treatment:	Treated
Latitude:	385438	Longitude:	0942250

2
WNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000696955**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T47N R31W 06	Type:	Well
Description:	Not Reported	HUC:	10300101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Pleasanton Group
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	285	Well Depth Units:	ft
Well Hole Depth:	285	Well Hole Depth Units:	ft

A3
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40000696954**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T47N R31W 05 2	Type:	Well
Description:	Not Reported	HUC:	10300101

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Pleasanton Group
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	355	Well Depth Units:	ft
Well Hole Depth:	355	Well Hole Depth Units:	ft

A4
ENE **FED USGS** **USGS40000696953**
1/2 - 1 Mile
Lower

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T47N R31W 05	Type:	Well
Description:	Not Reported	HUC:	10300101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Pleasanton Group
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	260	Well Depth Units:	ft
Well Hole Depth:	260	Well Hole Depth Units:	ft

5
South **FED USGS** **USGS40000696917**
1/2 - 1 Mile
Higher

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T47N R31W 08BC	Type:	Well
Description:	Not Reported	HUC:	10300101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Pleasanton Group
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	511	Well Depth Units:	ft
Well Hole Depth:	511	Well Hole Depth Units:	ft

A6
ENE **MO WELLS** **MOLOG3000038826**
1/2 - 1 Mile
Lower

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0003478	Owner:	Rush, Et Al
Well Type:	Private Well	Stratigraphy Log:	Yes
Driller Log:	No	Other Log:	No
Samples Retained:	Yes	Elevation (ft):	983
Total Depth (ft):	320	Depth to Bedrock (ft):	999999
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:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	PENNSYLVANIAN SUBSYSTEM 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:	19351019	Driller:	Not Reported
Logger:	Farrar	Log Date:	193510
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	Hoover		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0003478.pdf		

7
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000696979**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T47N R31W 05BBA1	Type:	Well
Description:	Not Reported	HUC:	10300101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Alluvial aquifers	Formation Type:	Swope Formation
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	89	Well Depth Units:	ft
Well Hole Depth:	89	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance — Database — EDR ID Number

A3
WSW
0 - 1/8 Mile — **OIL_GAS** — **MOOG70000004168**

OIL_GAS:

API Number:	095-00499	Operator:	WHITE, M. J.
Lease Name:	DICKERSON	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1032	Total Depth (ft):	672
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

A2
WSW
0 - 1/8 Mile — **OIL_GAS** — **MOOG70000004163**

OIL_GAS:

API Number:	095-00494	Operator:	WEINTRAUB
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1032	Total Depth (ft):	286
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

A1
WSW
0 - 1/8 Mile — **OIL_GAS** — **MOOG70000004159**

OIL_GAS:

API Number:	095-00490	Operator:	RAGSDALE, DR.
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1036
Total Depth (ft):	308	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported

Oil Gravity:	Not Reported
Well Status Comments:	Not Reported
Well Comments:	Not Reported

4
ESE **OIL_GAS** **MOOG70000004141**
0 - 1/8 Mile

OIL_GAS:

API Number:	095-00472	Operator:	WHITE, M. J.
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1012	Total Depth (ft):	261
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

5
NW **OIL_GAS** **MOOG70000004167**
1/8 - 1/4 Mile

OIL_GAS:

API Number:	095-00498	Operator:	WHITE, M. J.
Lease Name:	DAVIS	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1027	Total Depth (ft):	289
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

B6
SSE **OIL_GAS** **MOOG70000004130**
1/8 - 1/4 Mile

OIL_GAS:

API Number:	095-00461	Operator:	MCKESSON & ROOS
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	08-APR-29	Well Status:	Abandoned
Well Status Date:	08-APR-29	Spud Date:	Not Reported
Elevation (ft):	1028	Total Depth (ft):	283

Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

B7
SSE **OIL_GAS** **MOOG70000004139**
1/8 - 1/4 Mile

OIL_GAS:

API Number:	095-00470	Operator:	TUROFF MOTOR CO.
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	15-SEP-28	Well Status:	Abandoned
Well Status Date:	15-SEP-28	Spud Date:	Not Reported
Elevation (ft):	1033	Total Depth (ft):	284
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

8
West **OIL_GAS** **MOOG70000004166**
1/8 - 1/4 Mile

OIL_GAS:

API Number:	095-00497	Operator:	WHITE, M. J.
Lease Name:	COX, JOE	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1045	Total Depth (ft):	305
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

C9
ENE **OIL_GAS** **MOOG70000004110**
1/8 - 1/4 Mile

OIL_GAS:

API Number:	095-00441	Operator:	BANKER, C. J.
Lease Name:	FEE	Well Name:	1

Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	11-SEP-29	Well Status:	Abandoned
Well Status Date:	11-SEP-29	Spud Date:	Not Reported
Elevation (ft):	1003	Total Depth (ft):	426
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

10
NNE **OIL_GAS** **MOOG70000004129**
1/8 - 1/4 Mile

OIL_GAS:

API Number:	095-00460	Operator:	MAXWELL
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1025	Total Depth (ft):	290
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

D11
SW **OIL_GAS** **MOOG70000004152**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00483	Operator:	DIEHL
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	991
Total Depth (ft):	275	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

D12
SW
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004165**

OIL_GAS:

API Number:	095-00496	Operator:	WHITE, M. J.
Lease Name:	CAMPBELL, DR.	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	15-JUN-28	Well Status:	Abandoned
Well Status Date:	15-JUN-28	Spud Date:	Not Reported
Elevation (ft):	1023	Total Depth (ft):	284
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

C13
East
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004115**

OIL_GAS:

API Number:	095-00446	Operator:	CARSON
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	07-AUG-29	Well Status:	Abandoned
Well Status Date:	07-AUG-29	Spud Date:	Not Reported
Elevation (ft):	998	Total Depth (ft):	245
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

14
SSW
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004177**

OIL_GAS:

API Number:	095-00508	Operator:	MATHENY
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1046
Total Depth (ft):	412	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported

Oil Gravity:	Not Reported
Well Status Comments:	Not Reported
Well Comments:	PRODUCED GAS

15
ESE **OIL_GAS** **MOOG70000004111**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00442	Operator:	BLACKWELL
Lease Name:	FEE	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1030
Total Depth (ft):	317	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS OIL		

E17
West **OIL_GAS** **MOOG70000004169**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00500	Operator:	WHITE, M. J.
Lease Name:	GUNN, PRICE	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1032	Total Depth (ft):	293
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

E16
West **OIL_GAS** **MOOG70000004160**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00491	Operator:	SWANSON
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1013
Total Depth (ft):	285	Plug Back Depth (ft):	Not Reported

Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

18
ENE **OIL_GAS** **MOOG70000004127**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00458	Operator:	LEE'S SUMMIT GAS CO.
Lease Name:	COLLINS	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1024	Total Depth (ft):	490
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	SHOWS OIL & GAS		

F21
WSW **OIL_GAS** **MOOG70000004155**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00486	Operator:	LEE
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Dry Hole	Well Type Date:	10-NOV-30
Well Status:	Abandoned	Well Status Date:	10-NOV-30
Spud Date:	Not Reported	Elevation (ft):	1042
Total Depth (ft):	630	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS GAS		

F20
WSW **OIL_GAS** **MOOG70000004148**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00479	Operator:	BROWNING
Lease Name:	FEE	Well Name:	Not Reported

Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1030	Total Depth (ft):	287
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

F19
WSW
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004147**

OIL_GAS:

API Number:	095-00478	Operator:	BROWNING
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1036
Total Depth (ft):	297	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

22
NNE
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004112**

OIL_GAS:

API Number:	095-00443	Operator:	BLACKWELL
Lease Name:	FEE	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	15-JUN-28
Well Status:	Abandoned	Well Status Date:	15-JUN-28
Spud Date:	Not Reported	Elevation (ft):	1014
Total Depth (ft):	426	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS GAS		

Map ID
Direction
Distance

Database EDR ID Number

23
ESE
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004137**

OIL_GAS:

API Number:	095-00468	Operator:	SCHICK
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	15-OCT-29	Well Status:	Abandoned
Well Status Date:	15-OCT-29	Spud Date:	Not Reported
Elevation (ft):	1053	Total Depth (ft):	302
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

G24
West
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004158**

OIL_GAS:

API Number:	095-00489	Operator:	MCCARTHY, MARIE
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1024
Total Depth (ft):	285	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

G25
West
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004164**

OIL_GAS:

API Number:	095-00495	Operator:	WHITE, M. J.
Lease Name:	BUTTERFIELD	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1003	Total Depth (ft):	268
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported

SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

26
SW
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004174**

OIL_GAS:

API Number:	095-00505	Operator:	BAYLESS
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1044
Total Depth (ft):	310	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

27
NE
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004131**

OIL_GAS:

API Number:	095-00462	Operator:	MCKINLEY
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	996	Total Depth (ft):	245
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

28
WSW
1/4 - 1/2 Mile

OIL_GAS **MOOG70000004162**

OIL_GAS:

API Number:	095-00493	Operator:	WEINTRAUB
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1031
Total Depth (ft):	287	Plug Back Depth (ft):	Not Reported

Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	HOUSE WELL		

H29
ESE **OIL_GAS** **MOOG70000004117**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00448	Operator:	CORDER, NATH
Lease Name:	TOWNSITE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1039	Total Depth (ft):	342
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

H30
ESE **OIL_GAS** **MOOG70000004118**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-00449	Operator:	CORDER, NATH
Lease Name:	FEE	Well Name:	2
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1034	Total Depth (ft):	332
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

H31
ESE **OIL_GAS** **MOOG70000005371**
1/4 - 1/2 Mile

OIL_GAS:

API Number:	095-01705	Operator:	SIMMS
Lease Name:	PARRISH	Well Name:	1

Well Type:	Oil	Well Type Date:	19-DEC-46
Well Status:	Abandoned	Well Status Date:	19-DEC-46
Spud Date:	Not Reported	Elevation (ft):	Not Reported
Total Depth (ft):	312	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED OIL		

I32
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004153**

OIL_GAS:

API Number:	095-00484	Operator:	DIEHL
Lease Name:	FEE	Well Name:	2
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	991
Total Depth (ft):	267	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

I39
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004157**

OIL_GAS:

API Number:	095-00488	Operator:	LEE'S SUMMIT GAS CO.
Lease Name:	DIEHL	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	Not Reported	Total Depth (ft):	258
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	SHOWS GAS		

Map ID
Direction
Distance

Database EDR ID Number

I38
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004156**

OIL_GAS:

API Number:	095-00487	Operator:	LEE'S SUMMIT GAS CO.
Lease Name:	FEE	Well Name:	2
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	Not Reported	Total Depth (ft):	365
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

I35
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004151**

OIL_GAS:

API Number:	095-00482	Operator:	MID-CONTINENT PETROLEUM
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1052	Total Depth (ft):	320
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

I36
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004161**

OIL_GAS:

API Number:	095-00492	Operator:	WALLACE, O. O.
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Private Use)	Well Type Date:	15-JUN-29
Well Status:	Abandoned	Well Status Date:	15-JUN-29
Spud Date:	Not Reported	Elevation (ft):	1053
Total Depth (ft):	317	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported

Oil Gravity:	Not Reported
Well Status Comments:	Not Reported
Well Comments:	Not Reported

I37
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000005372**

OIL_GAS:

API Number:	095-01706	Operator:	ARNOLD, O. G.
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	Not Reported
Total Depth (ft):	Not Reported	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	GAS WELL		

I34
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004143**

OIL_GAS:

API Number:	095-00474	Operator:	ACUFF CHEV. CO.
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1052	Total Depth (ft):	311
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

I33
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004154**

OIL_GAS:

API Number:	095-00485	Operator:	DIEHL
Lease Name:	FEE	Well Name:	2
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	24-DEC-29	Well Status:	Abandoned
Well Status Date:	24-DEC-29	Spud Date:	Not Reported
Elevation (ft):	Not Reported	Total Depth (ft):	285

Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	SHOWS GAS		

J43
ENE **OIL_GAS** **MOOG70000004113**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00444	Operator:	BLACKWELL
Lease Name:	FEE	Well Name:	2
Well Type:	Dry Hole	Well Type Date:	23-SEP-28
Well Status:	Abandoned	Well Status Date:	23-SEP-28
Spud Date:	Not Reported	Elevation (ft):	1004
Total Depth (ft):	283	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY		

J44
ENE **OIL_GAS** **MOOG70000004132**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00463	Operator:	CAMPBELL
Lease Name:	MORNINGSIDE ACRES	Well Name:	1
Well Type:	Oil	Well Type Date:	26-JUL-30
Well Status:	Abandoned	Well Status Date:	26-JUL-30
Spud Date:	Not Reported	Elevation (ft):	1023
Total Depth (ft):	300	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

J45
ENE **OIL_GAS** **MOOG70000004142**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00473	Operator:	WILLIAMS
Lease Name:	FEE	Well Name:	Not Reported

Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1019	Total Depth (ft):	284
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

J40
ENE
1/2 - 1 Mile

OIL_GAS **MOOG70000004114**

OIL_GAS:

API Number:	095-00445	Operator:	CARR
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	10-JUL-29	Well Status:	Abandoned
Well Status Date:	10-JUL-29	Spud Date:	Not Reported
Elevation (ft):	1022	Total Depth (ft):	290
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

J41
ENE
1/2 - 1 Mile

OIL_GAS **MOOG70000004124**

OIL_GAS:

API Number:	095-00455	Operator:	PHILLIPS
Lease Name:	GRAFFICE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	991	Total Depth (ft):	254
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

J42
ENE
1/2 - 1 Mile

OIL_GAS **MOOG70000004109**

OIL_GAS:

API Number:	095-00440	Operator:	ALDRIDGE
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Oil	Well Type Date:	06-JAN-31
Well Status:	Abandoned	Well Status Date:	06-JAN-31
Spud Date:	Not Reported	Elevation (ft):	1028
Total Depth (ft):	326	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED OIL		

J47
ENE
1/2 - 1 Mile

OIL_GAS **MOOG70000004133**

OIL_GAS:

API Number:	095-00464	Operator:	CAMPBELL
Lease Name:	MORNINGSIDE ACRES	Well Name:	2
Well Type:	Oil	Well Type Date:	15-JUN-30
Well Status:	Abandoned	Well Status Date:	15-JUN-30
Spud Date:	Not Reported	Elevation (ft):	1026
Total Depth (ft):	330	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

J46
ENE
1/2 - 1 Mile

OIL_GAS **MOOG70000005369**

OIL_GAS:

API Number:	095-01703	Operator:	BLACKWELL
Lease Name:	FEE	Well Name:	3
Well Type:	Gas(Private Use)	Well Type Date:	13-SEP-29
Well Status:	Abandoned	Well Status Date:	13-SEP-29
Spud Date:	Not Reported	Elevation (ft):	1016
Total Depth (ft):	267	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported

Oil Gravity:	Not Reported
Well Status Comments:	Not Reported
Well Comments:	Not Reported

J48
ENE
1/2 - 1 Mile

OIL_GAS **MOOG70000004136**

OIL_GAS:

API Number:	095-00467	Operator:	RUSH, A.
Lease Name:	HOOVER	Well Name:	1
Well Type:	Oil	Well Type Date:	20-SEP-35
Well Status:	Abandoned	Well Status Date:	20-SEP-35
Spud Date:	Not Reported	Elevation (ft):	1027
Total Depth (ft):	320	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED OIL		

K49
WSW
1/2 - 1 Mile

OIL_GAS **MOOG70000004144**

OIL_GAS:

API Number:	095-00475	Operator:	BAKER
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	15-SEP-28	Well Status:	Abandoned
Well Status Date:	15-SEP-28	Spud Date:	Not Reported
Elevation (ft):	1031	Total Depth (ft):	281
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

K50
WSW
1/2 - 1 Mile

OIL_GAS **MOOG70000004145**

OIL_GAS:

API Number:	095-00476	Operator:	BALES, FRANK
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	24-AUG-28
Well Status:	Abandoned	Well Status Date:	24-AUG-28
Spud Date:	Not Reported	Elevation (ft):	1023
Total Depth (ft):	279	Plug Back Depth (ft):	Not Reported

Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

51
WNW **OIL_GAS** **MOOG70000004173**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00504	Operator:	WORTHINGTON
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1030
Total Depth (ft):	272	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

L52
NE **OIL_GAS** **MOOG70000004125**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00456	Operator:	PHILLIPS
Lease Name:	GRAFFICE	Well Name:	2
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1016	Total Depth (ft):	287
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

L53
NE **OIL_GAS** **MOOG70000005370**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-01704	Operator:	FISHER
Lease Name:	FEE	Well Name:	4

Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	997	Total Depth (ft):	Not Reported
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

M54
NNE **OIL_GAS** **MOOG70000004116**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00447	Operator:	CLARK
Lease Name:	FEE	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	26-FEB-31
Well Status:	Abandoned	Well Status Date:	26-FEB-31
Spud Date:	Not Reported	Elevation (ft):	1015
Total Depth (ft):	300	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

M55
NNE **OIL_GAS** **MOOG70000004126**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00457	Operator:	LEE'S SUMMIT GAS CO.
Lease Name:	CLARK, BERT	Well Name:	2
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	03-SEP-32	Well Status:	Abandoned
Well Status Date:	03-SEP-32	Spud Date:	Not Reported
Elevation (ft):	1023	Total Depth (ft):	307
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

56
WSW **OIL_GAS** **MOOG70000004175**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00506	Operator:	KEMPER EST.
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1015
Total Depth (ft):	729	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS OIL & GAS		

N57
ENE **OIL_GAS** **MOOG70000004120**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00451	Operator:	CORDER, NATH
Lease Name:	FISHER	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	15-JAN-30	Well Status:	Abandoned
Well Status Date:	15-JAN-30	Spud Date:	Not Reported
Elevation (ft):	978	Total Depth (ft):	267
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

N59
ENE **OIL_GAS** **MOOG70000004135**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00466	Operator:	RUSH, A.
Lease Name:	FISHER	Well Name:	1 DD
Well Type:	Oil	Well Type Date:	15-AUG-35
Well Status:	Abandoned	Well Status Date:	15-AUG-35
Spud Date:	Not Reported	Elevation (ft):	Not Reported
Total Depth (ft):	306	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported

Oil Gravity:	Not Reported
Well Status Comments:	Not Reported
Well Comments:	Not Reported

N58
ENE **OIL_GAS** **MOOG70000004121**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00452	Operator:	CORDER, NATH
Lease Name:	FISHER	Well Name:	2
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	994	Total Depth (ft):	261
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

60
WNW **OIL_GAS** **MOOG70000004172**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00503	Operator:	YOUNG, THOMAS
Lease Name:	FEE	Well Name:	Not Reported
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	996
Total Depth (ft):	445	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY		

61
SSE **OIL_GAS** **MOOG70000004181**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00512	Operator:	THOMASON
Lease Name:	FEE	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1032
Total Depth (ft):	511	Plug Back Depth (ft):	Not Reported

Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS GAS		

62
West
1/2 - 1 Mile

OIL_GAS **MOOG70000004146**

OIL_GAS:

API Number:	095-00477	Operator:	BALES, FRANK
Lease Name:	FEE	Well Name:	2
Well Type:	Gas(Private Use)	Well Type Date:	31-JUL-35
Well Status:	Abandoned	Well Status Date:	31-JUL-35
Spud Date:	Not Reported	Elevation (ft):	1013
Total Depth (ft):	271	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

O64
West
1/2 - 1 Mile

OIL_GAS **MOOG70000004171**

OIL_GAS:

API Number:	095-00502	Operator:	WILSON
Lease Name:	FEE	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1013
Total Depth (ft):	294	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS GAS		

O63
West
1/2 - 1 Mile

OIL_GAS **MOOG70000004170**

OIL_GAS:

API Number:	095-00501	Operator:	WHITE, M. J.
Lease Name:	HIGGINS	Well Name:	Not Reported

Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	1016	Total Depth (ft):	280
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

65
WSW **OIL_GAS** **MOOG70000004178**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00509	Operator:	PALMER
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1035
Total Depth (ft):	287	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

P66
ENE **OIL_GAS** **MOOG70000003762**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00093	Operator:	KLING-JUDD OIL CO.
Lease Name:	KLING, JOHN	Well Name:	1
Well Type:	Oil	Well Type Date:	05-OCT-38
Well Status:	Abandoned	Well Status Date:	05-OCT-38
Spud Date:	Not Reported	Elevation (ft):	926
Total Depth (ft):	426	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	5123
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	SHOWS OIL & GAS		

Map ID
Direction
Distance

Database EDR ID Number

67
ESE
1/2 - 1 Mile

OIL_GAS **MOOG70000004180**

OIL_GAS:

API Number:	095-00511	Operator:	LENTZ, JOE
Lease Name:	FEE	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1000
Total Depth (ft):	345	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS OIL		

Q68
NE
1/2 - 1 Mile

OIL_GAS **MOOG70000006244**

OIL_GAS:

API Number:	095-21313	Operator:	STUERKE, WILBUR
Lease Name:	STUERKE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	03-OCT-96
Well Status:	Plugged - Approved	Well Status Date:	21-DEC-07
Spud Date:	Not Reported	Elevation (ft):	1000
Total Depth (ft):	275	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	03-OCT-96
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	REENTERED OLD HOLE, REPAIRED CSG & INSTALLED VALVE, PLUGGED by S. EVANS 238 TD		

P69
ENE
1/2 - 1 Mile

OIL_GAS **MOOG70000004122**

OIL_GAS:

API Number:	095-00453	Operator:	CORDER, NATH
Lease Name:	FISHER	Well Name:	3
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	987	Total Depth (ft):	252
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported

SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

Q70
NE
1/2 - 1 Mile

OIL_GAS **MOOG70000004134**

OIL_GAS:

API Number:	095-00465	Operator:	NEWBERG
Lease Name:	LONG, HENRY	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	09-MAR-31	Well Status:	Abandoned
Well Status Date:	09-MAR-31	Spud Date:	Not Reported
Elevation (ft):	998	Total Depth (ft):	395
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	SHOWS OIL & GAS		

71
NNE
1/2 - 1 Mile

OIL_GAS **MOOG70000004128**

OIL_GAS:

API Number:	095-00459	Operator:	LEE'S SUMMIT GAS CO.
Lease Name:	LONG, HENRY	Well Name:	2
Well Type:	Dry Hole	Well Type Date:	24-SEP-32
Well Status:	Abandoned	Well Status Date:	24-SEP-32
Spud Date:	Not Reported	Elevation (ft):	1015
Total Depth (ft):	305	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY		

72
SSE
1/2 - 1 Mile

OIL_GAS **MOOG70000004179**

OIL_GAS:

API Number:	095-00510	Operator:	CAMPBELL
Lease Name:	HOWARD	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1030
Total Depth (ft):	355	Plug Back Depth (ft):	Not Reported

Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

R74
ENE **OIL_GAS** **MOOG70000004123**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00454	Operator:	FRANCIS, DR. H. H.
Lease Name:	KEMPF, MRS. ERNEST	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	25-SEP-48	Well Status:	Abandoned
Well Status Date:	25-SEP-48	Spud Date:	Not Reported
Elevation (ft):	980	Total Depth (ft):	507
Plug Back Depth (ft):	Not Reported	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	SHOWS OIL & GAS		

R73
ENE **OIL_GAS** **MOOG70000004119**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00450	Operator:	CORDER, NATH
Lease Name:	EVERTON	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	15-MAR-30	Well Status:	Abandoned
Well Status Date:	15-MAR-30	Spud Date:	Not Reported
Elevation (ft):	990	Total Depth (ft):	260
Plug Back Depth (ft):	256	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

75
WSW **OIL_GAS** **MOOG70000004176**
1/2 - 1 Mile

OIL_GAS:

API Number:	095-00507	Operator:	LAWRENCE, GEO.
Lease Name:	FEE	Well Name:	Not Reported

Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	1020
Total Depth (ft):	275	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

76
East
1/2 - 1 Mile

OIL_GAS **MOOG70000004140**

OIL_GAS:

API Number:	095-00471	Operator:	WHITE, M. J.
Lease Name:	MUCKIE	Well Name:	1
Well Type:	Dry Hole	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	959
Total Depth (ft):	360	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOWS GAS		

77
West
1/2 - 1 Mile

OIL_GAS **MOOG70000004149**

OIL_GAS:

API Number:	095-00480	Operator:	DAY
Lease Name:	FEE	Well Name:	1
Well Type:	Gas(Private Use)	Well Type Date:	01-JAN-01
Well Status:	Abandoned	Well Status Date:	01-JAN-01
Spud Date:	Not Reported	Elevation (ft):	993
Total Depth (ft):	279	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	PRODUCED GAS		

Map ID
Direction
Distance

Database EDR ID Number

78
WNW
1/2 - 1 Mile

OIL_GAS **MOOG70000004150**

OIL_GAS:

API Number:	095-00481	Operator:	DAY
Lease Name:	FEE	Well Name:	2
Well Type:	Dry Hole	Well Type Date:	15-AUG-29
Well Status:	Abandoned	Well Status Date:	15-AUG-29
Spud Date:	Not Reported	Elevation (ft):	993
Total Depth (ft):	270	Plug Back Depth (ft):	Not Reported
Directionally Drilled:	Not Reported	Measured Vert Depth (ft):	Not Reported
Top Perf Depth (ft):	Not Reported	Bottom Perf Depth (ft):	Not Reported
First Production:	Not Reported	Cur Permit Issue Date:	Not Reported
Max Approved PSI:	Not Reported	SPL Log:	Not Reported
Oil Gravity:	Not Reported		
Well Status Comments:	Not Reported		
Well Comments:	DRY, SHOW OIL & GAS		

79
NE
1/2 - 1 Mile

OIL_GAS **MOOG70000004138**

OIL_GAS:

API Number:	095-00469	Operator:	THOMAS
Lease Name:	SHORT, WM	Well Name:	1
Well Type:	Gas(Convertional, Commercial)		
Well Type Date:	01-JAN-01	Well Status:	Abandoned
Well Status Date:	01-JAN-01	Spud Date:	Not Reported
Elevation (ft):	989	Total Depth (ft):	415
Plug Back Depth (ft):	256	Directionally Drilled:	Not Reported
Measured Vert Depth (ft):	Not Reported	Top Perf Depth (ft):	Not Reported
Bottom Perf Depth (ft):	Not Reported	First Production:	Not Reported
Cur Permit Issue Date:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	Not Reported	Oil Gravity:	Not Reported
Well Status Comments:	Not Reported		
Well Comments:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
64063	12/02/08	3.6
64063	12/22/07	3.8
64063	12/31/07	7.6
64063	02/17/09	1.5
64063	01/02/09	1
64063	01/05/09	1.6
64063	01/07/08	3.3
64063	01/20/07	2.5
64063	02/08/08	2.3
64063	04/03/08	2.9
64063	02/28/08	14.7
64063	03/06/08	0.5
64063	03/12/09	4.8
64063	03/17/08	1.5
64063	03/20/07	5.9
64063	05/29/08	< 0.3
64063	05/30/08	0.6
64063	06/01/04	4.2
64063	06/02/04	3.3
64063	06/06/08	1.5
64063	06/06/08	2.5
64063	06/07/08	3.3
64063	06/13/08	4.8
64063	06/13/08	????
64063	06/13/08	< 0.3
64063	07/09/08	2.3
64063	08/19/08	5.5
64063	08/22/08	4
64063	06/14/08	5
64063	06/17/08	1.6
64063	06/17/08	6.1
64063	06/17/08	< 0.3
64063	06/26/08	7.6

Federal EPA Radon Zone for JACKSON County: 1

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

Federal Area Radon Information for Zip Code: 64063

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.800 pCi/L	50%	50%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	7.625 pCi/L	50%	42%	8%

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 E

CREDENTIALS

Tracie A. Ragland
SENIOR SCIENTIST

PROFESSIONAL EXPERIENCE

Ms. Ragland is a Senior Scientist and Authorized Project Reviewer in Terracon's Lenexa, KS office. Ms. Ragland has over 20 years of environmental due diligence experience and performs various duties including Phase I Environmental Site Assessments (Phase I ESAs) and limited asbestos inspections. Ms. Ragland has management responsibility of Phase I ESAs within the Environmental Due Diligence Group (DDG) at Terracon. Duties include oversight of projects, technical review of client deliverables, and mentoring of Phase I ESA personnel. Ms. Ragland is an Environmental Professional (as defined in 40 CFR 312) for Phase I ESAs, and has also served as Acting Group Manager of the DDG on several occasions. Ms. Ragland's primary responsibilities include conducting all aspects of Phase I ESAs including proposal/scope preparation, field work, interpretation of Phase I ESA research, and production of client deliverables. Ms. Ragland has also conducted wetland delineations and has assisted in National Environmental Policy Act (NEPA) Reviews/Environmental Assessments (EAs) and Limited Site Investigations (LSIs).

Phase I ESAs: Ms. Ragland has conducted and managed numerous Phase I ESAs for over 20 years throughout the continental US on properties ranging from less than 1 acre to 8,000 acres in size, including undeveloped land, farmland, communications towers, multi-family residential structures, medical facilities, large-scale commercial developments, gasoline stations, vehicle maintenance facilities, industrial/manufacturing sites, printing facilities, dry cleaners, agricultural cooperatives, offices/warehouses, and Brownfields Assessment sites.

Asbestos Inspections and Sampling: In conjunction with Phase I ESAs, Ms. Ragland has conducted limited asbestos inspections and sampling of properties including multi-family residential structures, office buildings, retail malls, commercial developments, and heavy industrial sites in KS and MO. Ms. Ragland has also served as site monitor on asbestos school abatement projects in KS performing air monitoring sampling and observation services during asbestos removal activities, including non-friable visual clearance inspections.

Wetland Delineations: Ms. Ragland has conducted and managed wetland delineation and assisted in permitting projects in KS and MO, including: coordination with the US Army Corps of Engineers (USACE), report preparation for Section 404 Clean Water Act (CWA) regulatory permitting, wetland mitigation site construction observation, and wetland mitigation monitoring. Ms. Ragland has delineated sites from 1 to 8,000 acres utilizing mandatory technical criteria and field indicators established by regional supplements to the USACE delineation manual.

NEPA Reviews/EAs: Ms. Ragland has conducted NEPA Reviews for existing and proposed communications towers and a fiber optic cable corridor. Ms. Ragland has assisted with preparation of EAs for a proposed marina at a USACE lake, two USDA Natural Resources Conservation Service (NRCS) dam reconstruction sites, a Dept. of Energy (DOE)-sponsored proposed battery/energy storage facility, and a Dept. of Veterans Affairs (VA) cemetery expansion. Ms. Ragland was responsible for field work, contact with federal, state, and local government agencies, coordination of Cultural Resource Investigations, and production of client deliverables. Ms. Ragland has also completed HUD Form 4128 "Environmental Assessment and Compliance Finding for Related Laws" documenting compliance with NEPA for residential properties during preparation of Phase I ESAs.

LSIs/Preliminary Assessment (PA)/Site Inspection (SI): Ms. Ragland has conducted and managed LSIs including a PA/SI on a former government WWII facility. Responsibilities included preparation of work scopes, collection of soil and groundwater samples, interpretation of analytical results, and preparation of client deliverables.

EDUCATION

Bachelor of Arts, Honors in Environmental Studies, University of Kansas, 1997

Bachelor of Science in Biology, Cellular Biology, University of Kansas, 1992

CERTIFICATIONS

40-Hour Hazardous Waste Site Operations Training

AHERA, Asbestos Inspector: KS

Certified Asbestos Inspector: MO

AFFILIATIONS

Society of Wetland Scientists (SWS), 1999-2016

University of Kansas (Edwards Campus) Professional Science Masters – Environmental Assessment External Advisory Board Member, 2012-2018

University of Kansas (Edwards Campus) Environmental Industry Board Member, 2019-2022

WORK HISTORY

Terracon Consultants, Inc.,
Senior Scientist: 2019-present
Project Scientist: 2016-2019
Project Manager: 2008-2016
Environmental Scientist: 1998-2008

University of Kansas, Research Assistant, 1994-98

University of Minnesota, Graduate Research Assistant, 1993-94

Oklahoma State University, Laboratory Technician, 1992-93

ADDITIONAL COURSES

ASTM Training on Phase I & II ESAs for Commercial Real Estate 2017, ASTM
Regional Supplement Seminar, Wetland Training Institute (WTI), 2008
Nationwide Permits, WTI, 2008; SWS, 2000
Dormant Season Wetland Plant Identification, Institute of Botanical Training, LLC, 2007
Wetland Construction and Restoration, WTI, 2001
Wetland Plant Identification, Biotic Consultants, Inc., 2000
Basic Processes in Hydric Soils, North Carolina State University, 2000
38-Hour Army Corps of Engineers Wetland Delineation & Management Training Program, Richard Chinn Environmental Training, Inc., 1998

Madeleine Quick

Assistant Scientist

PROFESSIONAL EXPERIENCE

Madeleine Quick is an Assistant Environmental Scientist in Terracon's Lenexa office. Ms. Quick assists with Phase I site assessments by visiting site locations, compiling comprehensive photo logs of sites, interviewing site owners and staff, analyzing and describing historical maps of the site, and tabulating and preparing data for written reports in accordance with safety rules, guidelines, and standards.

Ms. Quick participates in pre-task planning and is responsible for maintaining quality standards on all projects. She is trained in recognizing and reporting on potentially hazardous environmental conditions within various types of sites and assists in making recommendations to the client on tests and procedures that should follow up these findings.

EDUCATION

Bachelor of Science, Environmental Studies, University of Kansas

Associate of Science, Liberal Arts, Johnson County Community College

PROJECT EXPERIENCE

Dobbs Auto – St. Louis, MO (2023)

Provided site research for a team conducting Phase I ESAs at 18 store locations throughout the St. Louis Metro. Researched historical information about the site and conducted a records review. These findings were presented to the client as part of a final report.

Dollar General Stores – Grain Valley, MO and Peculiar, MO (2023)

Performed site reconnaissance for Phase I ESAs at two vacant grass lots, which are the proposed locations for two new stores. Prepared final report and prepared for it to be presented to the client.

Apartment Building – Kansas City, MO (2023)

Performed field work on a team that conducted a Phase I ESA on behalf of St. Luke's Health System. Helped prepare final report, which was presented to the client. The site consisted of one parcel, approximately 2,157 square feet in size and was developed with a two-story residential apartment building of approximately 2,600 square feet, with four rental units, that is currently partially occupied, and was built in 1918.

Proposed Contractor Storage – Shawnee, KS (2023)

Performed site reconnaissance for a Phase I ESA on 7.16 acres of vacant land, which is the proposed location of a new contractor storage facility. Helped prepare final report, which was presented to the client. The site consisted of undeveloped land covered by dense vegetation, and the southern portion maintained an engineered concrete swale with running water.

McDonalds – Leavenworth, KS (2023)

Performed field work on a team that conducted a Phase I ESA at a developed, eight-unit strip mall building and parking lot. Helped prepare final report, which was presented to the client.

City of Belton – Belton, MO

Performed site reconnaissance for a Phase I ESA on 23 acres of land that is currently developed with six warehouse-like structures and was at the time utilized by the City of Belton as a City maintenance and storage lot. Helped prepare final report, which was presented to the client.

Joe's Kansas City BBQ – Kansas City, KS (2023)

Performed field work on a team that conducted a Phase I ESA of an approximately 8,000 square-foot building and associated parking areas. Helped prepare final report, which was presented to the client. The site was at the time occupied by a printing press. Joe's Kansas City BBQ was exploring the possibility of purchasing the site. Upon assessment, several Recognized Environmental Conditions (REC) were identified due to the long-term use of the site as a printing facility.

APPENDIX F

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.

ASBESTOS & LEAD-BASED PAINT INSPECTION REPORT

Fire Station #1

207 SE Douglas Street

Lee's Summit, Missouri 64063

February 26, 2024

Prepared for:

WSKF Architects

110 Armour Road

North Kansas City, MO 64116

Terracon

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February 26, 2024

WSKF Architects
110 Armour Road
North Kansas City, Missouri 64116

Attn: Dylan Novak
P: (816) 300-4101
E: DNovak@wskfarch.com

Re: Asbestos Containing Material (ACM) and Lead-Based Paint (LBP) Inspection
Fire Station #1
207 SE Douglas Street
Lee's Summit, Missouri 64063
Terracon Project No. 02237353

Dear Ms. Novak:

Terracon Consultants, Inc. (Terracon) is pleased to submit the attached report for the above referenced site to WSKF Architects. The purpose of this report is to present the results of an asbestos and lead paint inspection conducted on February 7, 2024. This inspection was conducted in general accordance with our Proposal No. P02237353, dated November 7, 2023.

Asbestos was identified at a concentration greater than 1% in samples collected from the following materials:

Material Description	Material Location	NESHAP Category	Estimated Quantity*
White Sealant on Fiberglass Pipe Insulation	Basement Mechanical Room	Category II Nonfriable	10 units of pipe end sealant
Black Mastic Beneath 12″ x 12″ Gray Floor Tile	Basement Stair Landing, 1st floor Stair Landings	Category I Nonfriable	160 square feet
Black Mastic Beneath 12″ x 12″ Brown Floor Tile	Apparatus Bay North Center Beneath Cabinet	Category I Nonfriable	6 square feet
Cement Panels	Apparatus Bay NE above Cabinets	Category II Nonfriable	200 square feet

*Estimated quantities – quantities based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos-containing materials are present in hidden and/or inaccessible areas not evaluated as part of this survey.

Asbestos was detected at a concentration of 1% or less in samples collected from the following materials:

Material Description	Material Location	Estimated Quantity
Gypsum Wallboard with Joint Compound	Interior Walls Throughout	17,850 square feet

Please refer to Section 3.1 of the attached report for a detailed description of the asbestos survey and sampling activities. Please refer to Section 4.1 for asbestos survey findings.

Lead based paint (LBP) as defined by the United States Environmental Protection Agency (USEPA) and the State of Missouri was not identified in the areas inspected.

Lead containing paint (LCP) as defined by the United States Occupational Safety and Health Administration (USOSHA) was identified in the areas inspected. Based on results of the lead paint testing, LCP was identified on the following surfaces tested:

- 1st floor EMS storage room wood door – brown paint
- 1st floor restrooms wood doors – blue paint
- 2nd floor SW Training room and exercise room wood door – gray paint
- Interior metal door jambs – brown, gray, blue, black paint
- Interior metal window frames – brown, gray paint
- Interior metal stair risers, stair stringers and handrails – gray paint

Please refer to Section 3.2 of the attached report for a detailed description of the LBP survey and XRF testing. Section 4.2 for LBP survey findings.

Terracon appreciates the opportunity to provide this service to WSKF Architects. If you have any questions regarding this report, please contact the office at 913-492-7777.

Sincerely,

Terracon

Timothy Easley
Environmental Technician

Clark Grisell
Environmental Department Manager

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1.0 INTRODUCTION

Terracon Consultants Inc. (Terracon) conducted an asbestos and lead paint inspection of the Fire Station #1 Building located at 207 SE Douglas Street in Lee's Summit, Missouri. The inspection was conducted by a state of Missouri accredited asbestos inspector and State of Missouri certified Lead Inspector in general accordance with our Proposal No. P02237353, dated November 7, 2023. Building areas were visually assessed for suspect asbestos-containing materials (ACM) and lead-based paint (LBP). Reasonable effort was made to inspection accessible areas. Additional suspect materials could present in walls, in voids or in other concealed areas.

1.1 Reliance

This report is for the exclusive use of WSKF Architects and the City of Lee's Summit, Missouri for the project being discussed. Reliance by any other party on this report is prohibited without written authorization of Terracon and WSKF Architects. Reliance on this report by WSKF Architects and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, this report, and our Agreement for Services. The limitations of liability defined in our Agreement for Services is the aggregate limit of Terracon's liability to WSKF Architects.

2.0 SITE DESCRIPTION

This is an approximately 14,275 square foot, three-story fire station building. The building was constructed during the 1970's. Interior floors are concrete covered with carpet, floor tile or ceramic tile in most areas. Interior walls gypsum wallboard, concrete, or concrete block. Interior ceilings are drop ceiling tiles in most areas with concrete ceiling decks above. Exterior walls are brick.

3.0 FIELD ACTIVITIES

3.1 Asbestos Survey

The inspection was conducted by Timothy Easley, a state of Missouri accredited asbestos inspector. The asbestos inspectors' certification is attached in Appendix E. The inspection was conducted in general accordance with the sample collection protocols established in U.S. Environmental Protection Agency (EPA) 40 CFR Part 763 Subpart E 763.86, known as the AHERA. A summary of inspection activities is provided below.

3.1.1 Visual Assessment

Inspection activities were initiated with visual observation of the building to identify homogeneous areas of suspect ACM. A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application. The interior and exterior assessment was conducted in visually accessible areas of the building.

3.1.2 Physical Assessment

A physical assessment of each homogeneous area (HA) of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the USEPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.1.3 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with USEPA AHERA sampling protocols. Samples of suspect materials were collected from randomly selected locations in each homogeneous area. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

The selection of sample locations and frequency of sampling were based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content.

Fiberglass, foam glass, rubber, wood products, plastic products, glass, and steel are not considered suspect ACM and were, therefore, not sampled.

The survey was performed, and suspect ACM samples were collected, in general accordance with the protocols outlined in United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 763 Subpart E 763, known as the Asbestos Hazard Emergency Response Act (AHERA). Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

3.1.4 Sample Analysis

Bulk samples were submitted under chain of custody to International Asbestos Testing Laboratories (IATL) of Mount Laurel, New Jersey for analysis by Polarized Light Microscopy (PLM) with dispersion staining techniques per USEPA methodology 600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopic visual estimation. When applicable, the additional point count (PC) method (400 points) was utilized for samples identified by PLM to have low asbestos-content (typically less 10%). IATL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), accreditation number 101165-0. Appendix C includes the asbestos analytical report.

3.1.5 Regulatory Overview

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos containing material (RACM).

The asbestos NESHAP regulation classifies ACM as either RACM, Category I non-friable ACM or Category II non-friable ACM. RACM includes all friable ACM, along with Category I and Category II non-friable

ACM that has become friable, will be or has been subjected to sanding, grinding, cutting or abrading, or ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. Category II non-friable ACM generally includes but is not limited to cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar, and grouts.

The Missouri Department of Natural Resources, (MDNR) Air Pollution Control Program, enforces the Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) as adopted by reference at 10 CSR 10-6.080. The owner or operator must provide MDNR with written notification at least 10 working days prior to the commencement of asbestos abatement activities that will disturb Regulated Asbestos Containing Materials (RACM) in amounts greater than or equal to 160 square feet, 260 linear feet or 35 cubic feet.

The United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos fibers be maintained at or below 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute period known as an excursion limit (EL). The TWA and EL are known as OSHA's permissible exposure limits (PELs). The OSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

3.2 Lead-Based Paint Survey

Timothy Easley, a State of Missouri certified Lead Inspector, conducted lead-based paint (LBP) testing using a SciAps X550Pb, X-Ray Fluorescence instrument to determine if surface coatings contain lead.

Lead based paint (LBP) is defined by the USEPA and the State of Missouri as any paint or surface coating that contains 1.0 mg/cm^2 or greater of lead or 0.5% lead by weight by laboratory analysis, in "child occupied" and "targeted housing" and the USOSHA has indicated that owners or employers conducting renovation or demolition activities which may disturb building materials containing lead (in any concentration) are required to protect their employees from airborne lead exposures exceeding the USOSHA PEL.

3.2.1 Visual Assessment

The lead-based paint inspection began by a visual survey of accessible building components such as walls, ceilings, floors, doors, windows, stairs, and handrails. Various colors of paint were found on interior and exterior surfaces. These components have the potential to be disturbed during renovation activities.

3.2.2 Sample Collection and Analysis

A total of 223 XRF measurements were taken from testing combinations associated with the various components listed in Appendix D. Lead concentrations by XRF are measured in milligrams per square centimeter (mg/cm^2).

A SciAps X550Pb, serial no. 01340, X-Ray Fluorescence Instrument was used to analyze surface coatings for lead content. The instrument was used in accordance with guidelines detailed in the manufacturer's Standard Operating Procedures. Calibration checks were performed prior to and after sampling, using protocols provided by the instrument manufacturer.

3.2.3 Regulatory Overview

Lead based paint is defined by the USEPA and the State of Missouri as any paint or surface coating that contains 1.0 mg/cm^2 or greater of lead as measured by an XRF instrument.

The USOSHA uses the term lead containing paint (paint containing any detectable amount of lead). The USOSHA 29 CFR 1926.62 has established permissible limits for airborne lead concentrations in the workplace. Owners or employers conducting renovation or demolition activities which may disturb building materials containing lead (in any concentration) are required to protect their employees from airborne lead exposures exceeding the USOSHA permissible exposure limit (PEL).

USOSHA has established an "Action Level" for lead concentrations "in air" of 30 micrograms per cubic meter of air ($\mu g/m^3$) and a "Permissible Exposure Limit" for lead concentrations "in air" of 50 $\mu g/m^3$. Currently USOSHA has no established limits for lead content in bulk paint (non-airborne). Their interpretation on this issue is that any amount of lead may cause airborne concentrations above the established limits.

Missouri Department of Natural Resources lead occupation regulations governing proper training and work practices also apply.

4.0 FINDINGS

4.1 Asbestos Survey Findings

Asbestos was identified at a concentration greater than 1% in samples collected from the following materials.

Material Description	Material Location	NESHAP Category	Estimated Quantity*
White Sealant on Fiberglass Pipe Insulation	Basement Mechanical Room	Category II Nonfriable	10 units of pipe end sealant
Black Mastic Beneath 12" x 12" Gray Floor Tile	Basement Stair Landing, 1st floor Stair Landings	Category I Nonfriable	160 square feet

Material Description	Material Location	NESHAP Category	Estimated Quantity*
Black Mastic Beneath 12″ x 12″ Brown Floor Tile	Apparatus Bay North Center Beneath Cabinet	Category I Nonfriable	6 square feet
Cement Panels	Apparatus Bay NE above Cabinets	Category II Nonfriable	200 square feet

*Estimated quantities – quantities based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos-containing materials are present in hidden and/or inaccessible areas not evaluated as part of this survey.

The above listed Category I non-friable ACM that is damaged or could be damaged to the extent that it could be crumbled, pulverized or reduced to powder when dry, making it friable, must be removed prior to any activities (renovation and/or demolition) that may disturb this material in accordance with applicable federal, state and local regulations.

The above listed Category II non-friable ACM that has a high probability of becoming crumbled, pulverized, or reduced to powder when dry, making it friable, must be properly removed prior to any activities (renovation and/or demolition) that may disturb this material in accordance with applicable federal, state and local regulations. USEPA believes that most demolition activities will subject Category II non-friable ACM to the asbestos NESHAP regulation.

Asbestos was detected at a concentration of 1% or less in samples collected from the following materials:

Material Description	Material Location	Estimated Quantity
Gypsum Wallboard with Joint Compound	Interior Walls Throughout	17,850 square feet

When joint compound is applied to wallboard it becomes an integral part of the wallboard and in effect becomes one material forming a wall system. The EPA NESHAP allows for composite sampling of the wall system.

Materials containing 1% or less asbestos are not regulated by NESHAP or AHERA; however, the OSHA personal exposure limits (0.1 f/cc of air as an eight-hour time weighted average or 1.0 f/cc of air over 30 minutes) for asbestos apply when materials containing 1% asbestos or less are disturbed during renovation or demolition. A listing of materials that contain 1% asbestos or less are provided above to enable the renovation/demolition contractor to make appropriate decisions concerning compliance issues with applicable OSHA regulations. Due to the asbestos content of the gypsum wallboard (<1%), OSHA classifies removal of this material as Class II work.

4.2 LBP Survey Findings

Lead based paint (LBP) is defined by the USEPA and the State of Missouri as any paint or surface coating that contains 1.0 mg/cm^2 or greater of lead by XRF testing.

Lead based paint (LBP) as defined by the United States Environmental Protection Agency (USEPA) and the State of Missouri was not identified in the areas inspected.

Lead containing paint (LCP) as defined by the United States Occupational Safety and Health Administration (USOSHA) was identified in the areas inspected. Based on results of the lead paint testing, LCP was identified on the following surfaces tested:

- 1st floor EMS storage room wood door – brown paint
- 1st floor restrooms wood doors – blue paint
- 2nd floor SW Training room and exercise room wood door – gray paint
- Interior metal door jambs – brown, gray, blue, black paint
- Interior metal window frames – brown, gray paint
- Interior metal stair risers, stair stringers and handrails – gray paint

While the painted surfaces containing lead in concentrations between 0.0 and 1.0 mg/cm^2 do not meet the definition of lead-based paint under Housing and Urban Development (HUD), USEPA or the State of Missouri, the paint does contain lead and is subject to regulation under USOSHA. Therefore, it is the contractor`s responsibility to make appropriate decisions concerning compliance with applicable USOSHA regulations.

The USOSHA hazard communication requirement states that when hazardous materials (lead, asbestos, etc.) are present, employers who have employees that may disturb the hazardous materials, employers must inform their employees of the presence of such materials.

Refer to Lead Paint XRF Data in Appendix D, for a complete list of surfaces tested and for the Lead Laboratory Analytical Data.

5.0 GENERAL COMMENTS

Terracon did not perform sampling that required demolition or destructive activities such as knocking holes in walls, dismantling of equipment or removal of protective coverings. Reasonable efforts to access suspect materials within known areas of restricted access (e.g., crawl spaces) were made; however, confined spaces or areas which may pose a health or safety risk to Terracon personnel were not sampled. Sampling did not include suspect materials that could not be safely reached with available ladders/man-lifts. Terracon did not sample suspect materials that may be present in movable equipment such as freezers, kitchen equipment and hoods. Terracon typically investigated for flooring beneath carpeting by lifting small corner sections of carpet. If tiles were seen, they have been identified in the report. If tiles were not seen at corners under the carpet, it does not imply that there are no tiles beneath the carpeted floor. Terracon did not conduct destructive investigation of doors in the building to determine if the doors were insulated for fire-rating purposes.

This inspection was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed

during Terracon's inspection of the building. The information contained in this report is relevant to the date on which this inspection was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by WSKF Architects and the City of Lee's Summit, Missouri. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information that may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A-1

Fire Station #1

207 SE Douglas Street

Lee's Summit, Missouri

Terracon Project No. 02237353

IDENTIFIED ASBESTOS CONTAINING MATERIALS BY HOMOGENEOUS AREA (HA)

HA No.	Material Description	Material Location	% and Type Asbestos*	NESHAP Classification	Condition	Estimated Quantity**
03	White Sealant on Fiberglass Pipe Insulation	Basement Mechanical Room	Fiberglass Pipe Insulation - None Detected White Sealant – PC 1.8% Chrysotile	Category II Nonfriable	Good	10 units of pipe end sealant
09	Black Mastic Beneath 12″ x 12″ Gray Floor Tile	Basement Stair Landing, 1st floor Stair Landings	Floor Tile – None Detected Black Mastic – PC 1.3% Chrysotile	Category I Nonfriable	Good	160 square feet
11	Black Mastic Beneath 12″ x 12″ Brown Floor Tile	Apparatus Bay North Center Beneath Cabinet	Floor Tile – None Detected Black Mastic – PC 4.9% Chrysotile	Category I Nonfriable	Good	6 square feet
16	Cement Panels	Apparatus Bay NE above Cabinets	20% Chrysotile	Category II Nonfriable	Good	200 square feet

*% & Type Asbestos – this column contains both the analytical result of the sample with the highest concentration of asbestos detected in the samples that make up the HA and the types of asbestos identified.

**Estimated quantities – quantities based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos-containing materials are present in hidden and/or inaccessible areas not evaluated as part of this survey. This is not a bidding document; contractors are responsible for determining their own opinion of quantities.

PC – indicates that the additional stratified point count method (400 points) of analysis was performed after the initial PLM analysis.

APPENDIX A-2

Fire Station #1

207 SE Douglas Street

Lee's Summit, Missouri

Terracon Project No. 02237353

MATERIALS CONTAINING 1% OR LESS ASBESTOS BY HA

HA No.	Material Description	Material Location	% and Type Asbestos*	Condition	Estimated Quantity**
01	Gypsum Wallboard with Joint Compound	Interior Walls Throughout	Drywall – None Detected Joint Compound – PC 2.1% Chrysotile Composite – PC Trace Chrysotile	Good	17,850 square feet

*% & Type Asbestos – this column contains both the analytical result of the sample with the highest concentration of asbestos detected in the samples that make up the HA and the types of asbestos identified.

**Estimated quantities – quantities based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos-containing materials are present in hidden and/or inaccessible areas not evaluated as part of this survey. This is not a bidding document; contractors are responsible for determining their own opinion of quantities.

PC – indicates that the additional stratified point count method (400 points) of analysis was performed after the initial PLM analysis

<1% - Materials containing less than 1% asbestos are not regulated by NESHAP or AHERA; however, the OSHA personal exposure limits (0.1 f/cc of air as an eight-hour time weighted average or 1.0 f/cc of air over 30 minutes) for asbestos apply when materials containing 1% asbestos or less are disturbed during renovations or demolitions. A listing of materials that contain 1% asbestos or less is provided above to enable the renovation/demolition contractor to make appropriate decisions concerning compliance issues with applicable OSHA regulations

APPENDIX B

Fire Station #1

207 SE Douglas Street

Lee's Summit, Missouri

Terracon Project No. 02237353

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Sample Layer	Lab Results
01	*Gypsum Wallboard with Joint Compound*	*01-WB1-01*	*Basement - Hall at Vending*	*White Drywall*	*None Detected*
		01-WB1-01	*Basement - Hall at Vending*	*White Joint Compound*	*PC 1.8% Chrysotile*
		01-WB1-01	*Basement - Hall at Vending*	*Composite*	*PC <1% Chrysotile*
		01-WB1-02	*1st Fl Break Room - West Side*	*White Drywall*	*None Detected*
		01-WB1-02	*1st Fl Break Room - West Side*	*White Joint Compound*	*PC 1.9% Chrysotile*
		01-WB1-02	*1st Fl Break Room - West Side*	*Composite*	*PC <1% Chrysotile*
		01-WB1-03	*2nd Fl Hall Near Day Room*	*White Drywall*	*None Detected*
		01-WB1-03	*2nd Fl Hall Near Day Room*	*White Joint Compound*	*PC 2.1% Chrysotile*
		01-WB1-03	*2nd Fl Hall Near Day Room*	*Composite*	*PC <1% Chrysotile*
02		02-MI6-04	Basement - Mechanical Room	Grey Insulation	None Detected

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Sample Layer	Lab Results
	Preformed White Block Exhaust Insulation	02-MI6-04	Basement - Mechanical Room	White Insulation	None Detected
		02-MI6-05	Basement - Mechanical Room	Grey Insulation	None Detected
		02-MI6-05	Basement - Mechanical Room	White Insulation	None Detected
		02-MI6-06	1st Floor - Apparatus Bay NE Corner	White Insulation	None Detected
03	White Sealant on Fiberglass Pipe Insulation	03-SC5-07	Basement Mechanical Room - North Side	White Sealant	PC 1.5% Chrysotile
		03-SC5-07	Basement Mechanical Room - North Side	Yellow Insulation	None Detected
		03-SC5-07	Basement Mechanical Room - North Side	White Woven Material	None Detected
		03-SC5-08	Basement Mechanical Room - South Side	White Sealant	PC 1.7% Chrysotile
		03-SC5-08	Basement Mechanical Room - South Side	Yellow Insulation	None Detected
		03-SC5-09	Basement Mechanical Room - South Side	White Sealant	PC 1.8% Chrysotile
		03-SC5-09	Basement Mechanical Room - South Side	Yellow Insulation	None Detected
04	2′ x 4′ Dot Pattern Ceiling Tile	04-CT4-10	Basement - Auditorium East Side	White Ceiling Tile	None Detected
		04-CT4-11	Basement - Center Hall	White Ceiling Tile	None Detected
		04-CT4-12	Basement - Video Tech Room	White Ceiling Tile	None Detected
05		05-CT4-13	1st Fl - Reception Area	White Ceiling Tile	None Detected

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Sample Layer	Lab Results
	2′ x 4′ Pinhole Pattern Ceiling Tile	05-CT4-14	1st Fl - Hall East End	White Ceiling Tile	None Detected
		05-CT4-15	2nd Fl - Day Room East Side	White Ceiling Tile	None Detected
06	2′ x 4′ Smooth Ceiling Tile	06-CT4-16	Basement Dispatch - SE	White Ceiling Tile	None Detected
		06-CT4-17	Basement Dispatch - SW	White Ceiling Tile	None Detected
		06-CT4-18	Basement Dispatch - NW	White Ceiling Tile	None Detected
07	2′ x 4′ Fissure Pattern Ceiling Tile	07-CT4-19	Basement IT Room - East Side	White Ceiling Tile	None Detected
		07-CT4-20	Basement IT Room - SW	White Ceiling Tile	None Detected
		07-CT4-21	Basement IT Room - NW	White Ceiling Tile	None Detected
08	12″ x 12″ White with Gray Floor Tile and Mastic	08-FT2-22	Basement Dispatch Kitchen	White Floor Tile	None Detected
		08-FT2-22	Basement Dispatch Kitchen	Yellow Mastic	None Detected
		08-FT2-23	Basement Dispatch Kitchen	White Floor Tile	None Detected
		08-FT2-23	Basement Dispatch Kitchen	Yellow Mastic	None Detected
		08-FT2-24	Basement Dispatch Kitchen	White Floor Tile	None Detected
		08-FT2-24	Basement Dispatch Kitchen	Yellow Mastic	None Detected
09		09-FT2-25	Basement Stair Landing	Grey Floor Tile	None Detected

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Sample Layer	Lab Results
	12" x 12" Gray Floor Tile and Mastic	09-FT2-25	Basement Stair Landing	Yellow/Black Mastic	PC 1.3% Chrysotile
		09-FT2-26	1st Floor Stair Landing at Door to Apparatus Bay	Grey Floor Tile	None Detected
		09-FT2-26	1st Floor Stair Landing at Door to Apparatus Bay	Yellow/Black Mastic	PC 1.2% Chrysotile
		09-FT2-27	1st Floor Stair Landing at Door to Apparatus Bay	Grey Floor Tile	None Detected
		09-FT2-27	1st Floor Stair Landing at Door to Apparatus Bay	Yellow Mastic	None Detected
10	12" x 12" Tan Floor Tile and Mastic	10-FT2-28	2nd Floor Laundry Room	Tan Floor Tile	None Detected
		10-FT2-28	2nd Floor Laundry Room	Yellow Mastic	None Detected
		10-FT2-29	2nd Floor Laundry Room	Tan Floor Tile	None Detected
		10-FT2-29	2nd Floor Laundry Room	Yellow Mastic	None Detected
		10-FT2-30	2nd Floor Laundry Room	Tan Floor Tile	None Detected
		10-FT2-30	2nd Floor Laundry Room	Yellow Mastic	None Detected
11	**12" x 12" Brown** Floor Tile and Mastic	11-FT2-31	1st Floor Apparatus Bay North Center Under Cabinet	Tan/Off-White Floor Tile	None Detected
		11-FT2-31	1st Floor Apparatus Bay North Center Under Cabinet	Black Mastic	PC 4.9% Chrysotile
		11-FT2-32	1st Floor Apparatus Bay North Center Under Cabinet	Tan/Off-White Floor Tile	None Detected
		11-FT2-32	1st Floor Apparatus Bay North Center Under Cabinet	Black Mastic	PC 4.1% Chrysotile

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Sample Layer	Lab Results
		11-FT2-33	1st Floor Apparatus Bay North Center Under Cabinet	Tan/Off-White Floor Tile	None Detected
		11-FT2-33	1st Floor Apparatus Bay North Center Under Cabinet	Black Mastic	PC 4.4% Chrysotile
12	Brown Epoxy Flooring	12-FC5-34	Basement Hall by Dispatch	Brown Flooring	None Detected
		12-FC5-35	1st Floor Hall East End	Brown Flooring	None Detected
		12-FC5-35	1st Floor Hall East End	Lt Grey/Off-White Concrete	None Detected
		12-FC5-36	1st Floor - North Center Hall	Brown Flooring	None Detected
13	Tan Ceramic Tile Grout	13-MA4-37	1st Fl Hall at Entry	Grey Grout	None Detected
		13-MA4-38	1st Fl Lobby at South Office	Grey Grout	None Detected
		13-MA4-39	1st Fl Center Hall at Restrooms	Grey Grout	None Detected
14	Carpet Glue	14-MG7-40	1st Fl Reception Area - NE	Clear/Yellow Mastic	None Detected
		14-MG7-41	1st Fl NW Asst Chief Office	Clear/Yellow Mastic	None Detected
		14-MG7-42	2nd Floor - Day Room - SE	Yellow/Off-White Mastic	None Detected
15	Cove Base and Mastic	15-FC3-43	Basement Auditorium SE Closet	Grey Cove Base	None Detected
		15-FC3-43	Basement Auditorium SE Closet	Cream Mastic	None Detected
		15-FC3-44	1st Floor Break Room by Sink	Grey/Tan Cove Base	None Detected

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Sample Layer	Lab Results
		15-FC3-44	1st Floor Break Room by Sink	Yellow Mastic	None Detected
		15-FC3-45	1st Floor EMS Storage SE	Brown Cove Base	None Detected
		15-FC3-45	1st Floor EMS Storage SE	Yellow Mastic	None Detected
16	Cement Panels	16-CP1-46	1st Fl Apparatus Bay North Side Above Cabinets	Grey Cement Product	20% Chrysotile
		16-CP1-47	1st Fl Apparatus Bay North Side Above Cabinets	Grey Cement Product	20% Chrysotile
		16-CP1-48	1st Fl Apparatus Bay North Side Above Cabinets	Grey Cement Product	20% Chrysotile
17	Window Caulk	17-CA1-49	Exterior - North Side - West	Dk Brown Caulk	None Detected
		17-CA1-50	Exterior - East Side Center	Dk Brown/Black Caulk	None Detected
		17-CA1-50	Exterior - East Side Center	Grey Caulk	None Detected
		17-CA1-51	Exterior - West Side by Garage	White Caulk	None Detected
		17-CA1-51	Exterior - West Side by Garage	Dk Grey/Brown Caulk	None Detected
18	Membrane Roofing with Foam Insulation	18-RF5-52	Roof - NE Corner - Top Layer	White Non-Fibrous	None Detected
		18-RF5-52	Roof - NE Corner - Top Layer	Black Rubber	None Detected
		18-RF5-52	Roof - NE Corner - Top Layer	Dk Grey/Tan Felt	None Detected
		18-RF5-52	Roof - NE Corner - Top Layer	Lt Yellow Foam	None Detected

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA No.	Material Description	Sample Number	Sample Location	Sample Layer	Lab Results
		18-RF5-53	Roof - SE Corner - Top Layer	White Non-Fibrous	None Detected
		18-RF5-53	Roof - SE Corner - Top Layer	Black Rubber	None Detected
		18-RF5-53	Roof - SE Corner - Top Layer	Dk Grey/Tan Felt	None Detected
		18-RF5-53	Roof - SE Corner - Top Layer	Lt Yellow Foam	None Detected
		18-RF5-54	Roof - SW Corner - Top Layer	White Non-Fibrous	None Detected
		18-RF5-54	Roof - SW Corner - Top Layer	Black Rubber	None Detected
		18-RF5-54	Roof - SW Corner - Top Layer	Dk Grey/Tan Felt	None Detected
		18-RF5-54	Roof - SW Corner - Top Layer	Lt Yellow Foam	None Detected
19	Tar Felt Roofing with Gypsum Insulation	19-RF5-55	Roof - NE Corner - Bottom Layer	Black Felt	None Detected
		19-RF5-55	Roof - NE Corner - Bottom Layer	Off-White Insulation	None Detected
		19-RF5-56	Roof - SE Corner - Bottom Layer	Black Felt	None Detected
		19-RF5-56	Roof - SE Corner - Bottom Layer	Off-White Insulation	None Detected
		19-RF5-57	Roof - SW Corner - Bottom Layer	Black Felt	None Detected
		19-RF5-57	Roof - SW Corner - Bottom Layer	Off-White Insulation	None Detected

Asbestos-containing materials in BOLD.

Materials containing less than 1% asbestos in *Italic.*

PC – indicates that the additional stratified point count method (400 points) of analysis was performed after the initial PLM analysis.

APPENDIX C

ASBESTOS ANALYTICAL LABORATORY DATA

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725949
Client No.: 01-WB1-01
Analyst Observation: White Drywall
Client Description: Gypsum Wallboard W/ Joint Compound
Location: Basement - Hall At Vending
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose

Percent Non-Fibrous Material:
95

Lab No.: 7725949(L2)
Client No.: 01-WB1-01
Analyst Observation: White Joint Compound
Client Description: Gypsum Wallboard W/ Joint Compound
Location: Basement - Hall At Vending
Facility:

Percent Asbestos:
PC 1.8 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.2

Lab No.: 7725949(L3)
Client No.: 01-WB1-01
Analyst Observation: Composite
Client Description: Gypsum Wallboard W/ Joint Compound
Location: Basement - Hall At Vending
Facility:

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

Lab No.: 7725950
Client No.: 01-WB1-02
Analyst Observation: White Drywall
Client Description: Gypsum Wallboard W/ Joint Compound
Location: 1st Fl Break Room - West Side
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose

Percent Non-Fibrous Material:
95

Lab No.: 7725950(L2)
Client No.: 01-WB1-02
Analyst Observation: White Joint Compound
Client Description: Gypsum Wallboard W/ Joint Compound
Location: 1st Fl Break Room - West Side
Facility:

Percent Asbestos:
PC 1.9 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.1

Lab No.: 7725950(L3)
Client No.: 01-WB1-02
Analyst Observation: Composite
Client Description: Gypsum Wallboard W/ Joint Compound
Location: 1st Fl Break Room - West Side
Facility:

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
Date Analyzed: 02/19/2024
Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725951
Client No.: 01-WB1-03

Analyst Observation: White Drywall
Client Description: Gypsum Wallboard W/ Joint Compound

Location: 2nd Fl Hall Near Day Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
5 Cellulose

Percent Non-Fibrous Material:
95

Lab No.: 7725951(L2)
Client No.: 01-WB1-03

Analyst Observation: White Joint Compound
Client Description: Gypsum Wallboard W/ Joint Compound

Location: 2nd Fl Hall Near Day Room
Facility:

Percent Asbestos:
PC 2.1 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
97.9

Lab No.: 7725951(L3)
Client No.: 01-WB1-03

Analyst Observation: Composite
Client Description: Gypsum Wallboard W/ Joint Compound

Location: 2nd Fl Hall Near Day Room
Facility:

Percent Asbestos:
PC Trace *Chrysotile*

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

Lab No.: 7725952
Client No.: 02-MI6-04

Analyst Observation: Grey Insulation
Client Description: Exhaust Insulation

Location: Basement - Mechanical Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
15 Fibrous Glass

Percent Non-Fibrous Material:
85

Lab No.: 7725952(L2)
Client No.: 02-MI6-04

Analyst Observation: White Insulation
Client Description: Exhaust Insulation

Location: Basement - Mechanical Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Synthetic

Percent Non-Fibrous Material:
90

Lab No.: 7725953
Client No.: 02-MI6-05

Analyst Observation: Grey Insulation
Client Description: Exhaust Insulation

Location: Basement - Mechanical Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
15 Fibrous Glass

Percent Non-Fibrous Material:
85

Please refer to the Appendix of this report for further information regarding your analysis.

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Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725953(L2)
Client No.: 02-MI6-05
Analyst Observation: White Insulation
Client Description: Exhaust Insulation
Location: Basement - Mechanical Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Synthetic

Percent Non-Fibrous Material:
90

Lab No.: 7725954
Client No.: 02-MI6-06
Analyst Observation: White Insulation
Client Description: Exhaust Insulation
Location: 1st Floor - Apparatus Bay NE Corner
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
15 Cellulose

Percent Non-Fibrous Material:
85

Lab No.: 7725955
Client No.: 03-SC5-07
Analyst Observation: White Sealant
Client Description: White Sealant On Fiberglass Pipe Insulation
Location: Basement Mechanical Room - North Side
Facility:

Percent Asbestos:
PC 1.5 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.5

Lab No.: 7725955(L2)
Client No.: 03-SC5-07
Analyst Observation: Yellow Insulation
Client Description: White Sealant On Fiberglass Pipe Insulation
Location: Basement Mechanical Room - North Side
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
90 Fibrous Glass

Percent Non-Fibrous Material:
10

Lab No.: 7725955(L3)
Client No.: 03-SC5-07
Analyst Observation: White Woven Material
Client Description: White Sealant On Fiberglass Pipe Insulation
Location: Basement Mechanical Room - North Side
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
90 Cellulose

Percent Non-Fibrous Material:
10

Lab No.: 7725956
Client No.: 03-SC5-08
Analyst Observation: White Sealant
Client Description: White Sealant On Fiberglass Pipe Insulation
Location: Basement Mechanical Room - South Side
Facility:

Percent Asbestos:
PC 1.7 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.3

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Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725956(L2)
Client No.: 03-SC5-08

Percent Asbestos:
None Detected

Analyst Observation: Yellow Insulation
Client Description: White Sealant On Fiberglass Pipe Insulation

Percent Non-Asbestos Fibrous Material:
90 Fibrous Glass

Location: Basement Mechanical Room - South Side
Facility:

Percent Non-Fibrous Material:
10

Lab No.: 7725957
Client No.: 03-SC5-09

Percent Asbestos:
PC 1.8 *Chrysotile*

Analyst Observation: White Sealant
Client Description: White Sealant On Fiberglass Pipe Insulation

Percent Non-Asbestos Fibrous Material:
None Detected

Location: Basement Mechanical Room - South Side
Facility:

Percent Non-Fibrous Material:
98.2

Lab No.: 7725957(L2)
Client No.: 03-SC5-09

Percent Asbestos:
None Detected

Analyst Observation: Yellow Insulation
Client Description: White Sealant On Fiberglass Pipe Insulation

Percent Non-Asbestos Fibrous Material:
90 Fibrous Glass

Location: Basement Mechanical Room - South Side
Facility:

Percent Non-Fibrous Material:
10

Lab No.: 7725958
Client No.: 04-CT4-10

Percent Asbestos:
None Detected

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Dot Pattern Ceiling Tile

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Location: Basement - Auditorium East Side
Facility:

Percent Non-Fibrous Material:
10

Lab No.: 7725959
Client No.: 04-CT4-11

Percent Asbestos:
None Detected

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Dot Pattern Ceiling Tile

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Location: Basement - Center Hall
Facility:

Percent Non-Fibrous Material:
10

Lab No.: 7725960
Client No.: 04-CT4-12

Percent Asbestos:
None Detected

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Dot Pattern Ceiling Tile

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Location: Basement - Video Tech Room
Facility:

Percent Non-Fibrous Material:
20

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Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725961
Client No.: 05-CT4-13

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Ceiling Tile Pinhole Pattern

Location: 1st Fl - Reception Area
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Lab No.: 7725962
Client No.: 05-CT4-14

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Ceiling Tile Pinhole Pattern

Location: 1st Fl - Hall East End
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Lab No.: 7725963
Client No.: 05-CT4-15

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Ceiling Tile Pinhole Pattern

Location: 2nd Fl - Day Room East Side
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Lab No.: 7725964
Client No.: 06-CT4-16

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Smooth Ceiling Tile

Location: Basement Dispatch - SE
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Cellulose
40 Fibrous Glass

Percent Non-Fibrous Material:
10

Lab No.: 7725965
Client No.: 06-CT4-17

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Smooth Ceiling Tile

Location: Basement Dispatch - SW
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Cellulose
40 Fibrous Glass

Percent Non-Fibrous Material:
10

Lab No.: 7725966
Client No.: 06-CT4-18

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Smooth Ceiling Tile

Location: Basement Dispatch - NW
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Cellulose
40 Fibrous Glass

Percent Non-Fibrous Material:
10

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
Date Analyzed: 02/19/2024
Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725967
Client No.: 07-CT4-19

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Fissure Pattern Ceiling Tile

Location: Basement IT Room - East Side
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Lab No.: 7725968
Client No.: 07-CT4-20

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Fissure Pattern Ceiling Tile

Location: Basement IT Room - SW
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Lab No.: 7725969
Client No.: 07-CT4-21

Analyst Observation: White Ceiling Tile
Client Description: 2x4 Fissure Pattern Ceiling Tile

Location: Basement IT Room - NW
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
60 Cellulose
20 Fibrous Glass

Percent Non-Fibrous Material:
20

Lab No.: 7725970
Client No.: 08-FT2-22

Analyst Observation: White Floor Tile
Client Description: 12"x12" White W/ Gray Floor Tile And Mastic

Location: Basement Dispatch Kitchen
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725970(L2)
Client No.: 08-FT2-22

Analyst Observation: Yellow Mastic
Client Description: 12"x12" White W/ Gray Floor Tile And Mastic

Location: Basement Dispatch Kitchen
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725971
Client No.: 08-FT2-23

Analyst Observation: White Floor Tile
Client Description: 12"x12" White W/ Gray Floor Tile And Mastic

Location: Basement Dispatch Kitchen
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
Date Analyzed: 02/19/2024
Signature:
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Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725971(L2)
Client No.: 08-FT2-23
Analyst Observation: Yellow Mastic
Client Description: 12"x12" White W/ Gray Floor Tile And Mastic
Location: Basement Dispatch Kitchen
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725972
Client No.: 08-FT2-24
Analyst Observation: White Floor Tile
Client Description: 12"x12" White W/ Gray Floor Tile And Mastic
Location: Basement Dispatch Kitchen
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725972(L2)
Client No.: 08-FT2-24
Analyst Observation: Yellow Mastic
Client Description: 12"x12" White W/ Gray Floor Tile And Mastic
Location: Basement Dispatch Kitchen
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725973
Client No.: 09-FT2-25
Analyst Observation: Grey Floor Tile
Client Description: 12"x12" Gray Floor Tile And Mastic
Location: Basement Stair Landing
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725973(L2)
Client No.: 09-FT2-25
Analyst Observation: Yellow/Black Mastic
Client Description: 12"x12" Gray Floor Tile And Mastic
Location: Basement Stair Landing
Facility:

Percent Asbestos: ***PC 1.3*** *Chrysotile*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 98.7

Layers not separable.

Lab No.: 7725974
Client No.: 09-FT2-26
Analyst Observation: Grey Floor Tile
Client Description: 12"x12" Gray Floor Tile And Mastic
Location: 1st Floor Stair Landing At Door To Apparatus Bay
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
Date Analyzed: 02/19/2024
Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725974(L2)
Client No.: 09-FT2-26

Analyst Observation: Yellow/Black Mastic
Client Description: 12"x12" Gray Floor Tile And Mastic

Location: 1st Floor Stair Landing At Door To Apparatus Bay
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.8

Layers not separable.

Lab No.: 7725975
Client No.: 09-FT2-27

Analyst Observation: Grey Floor Tile
Client Description: 12"x12" Gray Floor Tile And Mastic

Location: 1st Floor Stair Landing At Door To Apparatus Bay
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725975(L2)
Client No.: 09-FT2-27

Analyst Observation: Yellow Mastic
Client Description: 12"x12" Gray Floor Tile And Mastic

Location: 1st Floor Stair Landing At Door To Apparatus Bay
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
Date Analyzed: 02/19/2024
Signature:
Analyst: Aidan Becker

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725976
Client No.: 10-FT2-28
Analyst Observation: Tan Floor Tile
Client Description: 12"x12" Tan Floor Tile And Mastic
Location: 2nd Floor Laundry Room
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725976(L2)
Client No.: 10-FT2-28
Analyst Observation: Yellow Mastic
Client Description: 12"x12" Tan Floor Tile And Mastic
Location: 2nd Floor Laundry Room
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725977
Client No.: 10-FT2-29
Analyst Observation: Tan Floor Tile
Client Description: 12"x12" Tan Floor Tile And Mastic
Location: 2nd Floor Laundry Room
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725977(L2)
Client No.: 10-FT2-29
Analyst Observation: Yellow Mastic
Client Description: 12"x12" Tan Floor Tile And Mastic
Location: 2nd Floor Laundry Room
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725978
Client No.: 10-FT2-30
Analyst Observation: Tan Floor Tile
Client Description: 12"x12" Tan Floor Tile And Mastic
Location: 2nd Floor Laundry Room
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725978(L2)
Client No.: 10-FT2-30
Analyst Observation: Yellow Mastic
Client Description: 12"x12" Tan Floor Tile And Mastic
Location: 2nd Floor Laundry Room
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
Date Analyzed: 02/19/2024
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725979
Client No.: 11-FT2-31

Analyst Observation: Tan/Off-White Floor Tile
Client Description: 12"x12" Brown Floor Tile And Mastic

Location: 1st Floor Apparatus Bay North Center Under Cabinet
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725979(L2)
Client No.: 11-FT2-31

Analyst Observation: Black Mastic
Client Description: 12"x12" Brown Floor Tile And Mastic

Location: 1st Floor Apparatus Bay North Center Under Cabinet
Facility:

Percent Asbestos:
PC 4.9 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
95.1

Lab No.: 7725980
Client No.: 11-FT2-32

Analyst Observation: Tan/Off-White Floor Tile
Client Description: 12"x12" Brown Floor Tile And Mastic

Location: 1st Floor Apparatus Bay North Center Under Cabinet
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725980(L2)
Client No.: 11-FT2-32

Analyst Observation: Black Mastic
Client Description: 12"x12" Brown Floor Tile And Mastic

Location: 1st Floor Apparatus Bay North Center Under Cabinet
Facility:

Percent Asbestos:
PC 4.1 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
95.9

Lab No.: 7725981
Client No.: 11-FT2-33

Analyst Observation: Tan/Off-White Floor Tile
Client Description: 12"x12" Brown Floor Tile And Mastic

Location: 1st Floor Apparatus Bay North Center Under Cabinet
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725981(L2)
Client No.: 11-FT2-33

Analyst Observation: Black Mastic
Client Description: 12"x12" Brown Floor Tile And Mastic

Location: 1st Floor Apparatus Bay North Center Under Cabinet
Facility:

Percent Asbestos:
PC 4.4 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
95.6

Please refer to the Appendix of this report for further information regarding your analysis.

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Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725982 | **Analyst Observation:** Brown Flooring | **Location:** Basement Hall By Dispatch
Client No.: 12-FC5-34 | **Client Description:** Brown Epoxy Flooring | **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Note: No mastic present

Lab No.: 7725983 | **Analyst Observation:** Brown Flooring | **Location:** 1st Floor Hall East End
Client No.: 12-FC5-35 | **Client Description:** Brown Epoxy Flooring | **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725983(L2) | **Analyst Observation:** Lt Grey/Off-White Concrete | **Location:** 1st Floor Hall East End
Client No.: 12-FC5-35 | **Client Description:** Brown Epoxy Flooring | **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725984 | **Analyst Observation:** Brown Flooring | **Location:** 1st Floor - North Center Hall
Client No.: 12-FC5-36 | **Client Description:** Brown Epoxy Flooring | **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725985 | **Analyst Observation:** Grey Grout | **Location:** 1st Fl Hall At Entry
Client No.: 13-MA4-37 | **Client Description:** Tan Ceramic Tile Grout | **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725986 | **Analyst Observation:** Grey Grout | **Location:** 1st Fl Lobby At South Office
Client No.: 13-MA4-38 | **Client Description:** Tan Ceramic Tile Grout | **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

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CERTIFICATE OF ANALYSIS

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Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725987
Client No.: 13-MA4-39
Analyst Observation: Grey Grout
Client Description: Tan Ceramic Tile Grout
Location: 1st Fl Center Hall At Restrooms
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725988
Client No.: 14-MG7-40
Analyst Observation: Clear/Yellow Mastic
Client Description: Carpet Glue
Location: 1st Fl Reception Area - NE
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725989
Client No.: 14-MG7-41
Analyst Observation: Clear/Yellow Mastic
Client Description: Carpet Glue
Location: 1st Fl NW Asst Chief Office
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Layers not separable.

Lab No.: 7725990
Client No.: 14-MG7-42
Analyst Observation: Yellow/Off-White Mastic
Client Description: Carpet Glue
Location: 2nd Floor - Day Room - SE
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Layers not separable.

Lab No.: 7725991
Client No.: 15-FC3-43
Analyst Observation: Grey Cove Base
Client Description: Cove Base And Mastic
Location: Basement Auditorium SE Closet
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7725991(L2)
Client No.: 15-FC3-43
Analyst Observation: Cream Mastic
Client Description: Cove Base And Mastic
Location: Basement Auditorium SE Closet
Facility:

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725992
Client No.: 15-FC3-44

Analyst Observation: Grey/Tan Cove Base
Client Description: Cove Base And Mastic

Location: 1st Floor Break Room By Sink
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725992(L2)
Client No.: 15-FC3-44

Analyst Observation: Yellow Mastic
Client Description: Cove Base And Mastic

Location: 1st Floor Break Room By Sink
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725993
Client No.: 15-FC3-45

Analyst Observation: Brown Cove Base
Client Description: Cove Base And Mastic

Location: 1st Floor EMS Storage SE
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725993(L2)
Client No.: 15-FC3-45

Analyst Observation: Yellow Mastic
Client Description: Cove Base And Mastic

Location: 1st Floor EMS Storage SE
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725994
Client No.: 16-CP1-46

Analyst Observation: Grey Cement Product
Client Description: Cement Panels

Location: 1st Fl Apparatus Bay North Side Above Cabinets
Facility:

Percent Asbestos:
20 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
80

Lab No.: 7725995
Client No.: 16-CP1-47

Analyst Observation: Grey Cement Product
Client Description: Cement Panels

Location: 1st Fl Apparatus Bay North Side Above Cabinets
Facility:

Percent Asbestos:
20 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
80

Please refer to the Appendix of this report for further information regarding your analysis.

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Client: TER436

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Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7725996
Client No.: 16-CP1-48

Analyst Observation: Grey Cement Product
Client Description: Cement Panels

Location: 1st Fl Apparatus Bay North Side Above Cabinets
Facility:

Percent Asbestos:
20 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
80

Lab No.: 7725997
Client No.: 17-CA1-49

Analyst Observation: Dk Brown Caulk
Client Description: Window Caulk

Location: Exterior - North Side - West
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725998
Client No.: 17-CA1-50

Analyst Observation: Dk Brown/Black Caulk
Client Description: Window Caulk

Location: Exterior - East Side Center
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725998(L2)
Client No.: 17-CA1-50

Analyst Observation: Grey Caulk
Client Description: Window Caulk

Location: Exterior - East Side Center
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725999
Client No.: 17-CA1-51

Analyst Observation: White Caulk
Client Description: Window Caulk

Location: Exterior - West Side By Garage
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7725999(L2)
Client No.: 17-CA1-51

Analyst Observation: Dk Grey/Brown Caulk
Client Description: Window Caulk

Location: Exterior - West Side By Garage
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
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Signature:
Analyst: Dean Andrews

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Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7726000
Client No.: 18-RF5-52

Analyst Observation: White Non-Fibrous
Client Description: Membrane Roofing W Insulation

Location: Roof - NE Corner - Top Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
30 Synthetic

Percent Non-Fibrous Material:
70

Lab No.: 7726000(L2)
Client No.: 18-RF5-52

Analyst Observation: Black Rubber
Client Description: Membrane Roofing W Insulation

Location: Roof - NE Corner - Top Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7726000(L3)
Client No.: 18-RF5-52

Analyst Observation: Dk Grey/Tan Felt
Client Description: Membrane Roofing W Insulation

Location: Roof - NE Corner - Top Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
40 Cellulose
45 Fibrous Glass

Percent Non-Fibrous Material:
15

Layers not separable.

Lab No.: 7726000(L4)
Client No.: 18-RF5-52

Analyst Observation: Lt Yellow Foam
Client Description: Membrane Roofing W Insulation

Location: Roof - NE Corner - Top Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7726001
Client No.: 18-RF5-53

Analyst Observation: White Non-Fibrous
Client Description: Membrane Roofing W Insulation

Location: Roof - SE Corner - Top Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
35 Synthetic

Percent Non-Fibrous Material:
65

Lab No.: 7726001(L2)
Client No.: 18-RF5-53

Analyst Observation: Black Rubber
Client Description: Membrane Roofing W Insulation

Location: Roof - SE Corner - Top Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
Date Analyzed: 02/19/2024
Signature:
Analyst: Dean Andrews

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Terracon
15620 W 113th Street
Lenexa KS 66219

Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7726001(L3) **Analyst Observation:** Dk Grey/Tan Felt **Location:** Roof - SE Corner - Top Layer
Client No.: 18-RF5-53 **Client Description:** Membrane Roofing W Insulation **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 40 Cellulose, 40 Fibrous Glass
Percent Non-Fibrous Material: 20

Layers not separable.

Lab No.: 7726001(L4) **Analyst Observation:** Lt Yellow Foam **Location:** Roof - SE Corner - Top Layer
Client No.: 18-RF5-53 **Client Description:** Membrane Roofing W Insulation **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7726002 **Analyst Observation:** White Non-Fibrous **Location:** Roof - SW Corner - Top Layer
Client No.: 18-RF5-54 **Client Description:** Membrane Roofing W Insulation **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 35 Synthetic, None Detected
Percent Non-Fibrous Material: 65

Lab No.: 7726002(L2) **Analyst Observation:** Black Rubber **Location:** Roof - SW Corner - Top Layer
Client No.: 18-RF5-54 **Client Description:** Membrane Roofing W Insulation **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7726002(L3) **Analyst Observation:** Dk Grey/Tan Felt **Location:** Roof - SW Corner - Top Layer
Client No.: 18-RF5-54 **Client Description:** Membrane Roofing W Insulation **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 40 Cellulose, 40 Fibrous Glass
Percent Non-Fibrous Material: 20

Layers not separable.

Lab No.: 7726002(L4) **Analyst Observation:** Lt Yellow Foam **Location:** Roof - SW Corner - Top Layer
Client No.: 18-RF5-54 **Client Description:** Membrane Roofing W Insulation **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
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Client: TER436

Report Date: 2/19/2024
Report No.: 696121 - PLM
Project: Fire Station #1
Project No.: 02237853

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7726003
Client No.: 19-RF5-55

Analyst Observation: Black Felt
Client Description: Tar/Felt Roofing W Gypsum Insulation

Location: Roof - NE Corner - Bottom Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Fibrous Glass

Percent Non-Fibrous Material:
50

Lab No.: 7726003(L2)
Client No.: 19-RF5-55

Analyst Observation: Off-White Insulation
Client Description: Tar/Felt Roofing W Gypsum Insulation

Location: Roof - NE Corner - Bottom Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose
10 Fibrous Glass

Percent Non-Fibrous Material:
80

Lab No.: 7726004
Client No.: 19-RF5-56

Analyst Observation: Black Felt
Client Description: Tar/Felt Roofing W Gypsum Insulation

Location: Roof - SE Corner - Bottom Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Fibrous Glass

Percent Non-Fibrous Material:
50

Lab No.: 7726004(L2)
Client No.: 19-RF5-56

Analyst Observation: Off-White Insulation
Client Description: Tar/Felt Roofing W Gypsum Insulation

Location: Roof - SE Corner - Bottom Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose
10 Fibrous Glass

Percent Non-Fibrous Material:
80

Lab No.: 7726005
Client No.: 19-RF5-57

Analyst Observation: Black Felt
Client Description: Tar/Felt Roofing W Gypsum Insulation

Location: Roof - SW Corner - Bottom Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
50 Fibrous Glass

Percent Non-Fibrous Material:
50

Lab No.: 7726005(L2)
Client No.: 19-RF5-57

Analyst Observation: Off-White Insulation
Client Description: Tar/Felt Roofing W Gypsum Insulation

Location: Roof - SW Corner - Bottom Layer
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose
10 Fibrous Glass

Percent Non-Fibrous Material:
80

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/9/2024
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Signature:
Analyst: Dean Andrews

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CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	2/19/2024
	15620 W 113th Street	Report No.:	696121 - PLM
	Lenexa KS 66219	Project:	Fire Station #1
		Project No.:	02237853
Client:	TER436		

Appendix to Analytical Report

Customer Contact:
Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

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Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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Client: TER436

Report Date: 2/19/2024
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Project No.: 02237853

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	Terracon	Report Date:	2/19/2024
	15620 W 113th Street	Report No.:	696121 - PLM
	Lenexa KS 66219	Project:	Fire Station #1
		Project No.:	02237853
Client:	TER436		

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

Chain of Custody / Sample Log
Bulk Asbestos

9000 Commerce Parkway
Suite B
Mt. Laurel, NJ 08054
Toll Free: 877 428-4285
info@iatl.com
www.iatl.com

Client: Terracon Consultants, Inc. (Terracon)
15620 West 113th St.
Lenexa, Kansas 66219

Project Name: Fire Station #1
Project No.: Lee's Summit, MO
0227 7851

Office Phone: 913-492-7777
Cell Phone:
FAX / Email 1: tim.easley@terracon.com

Contact 1: Timothy Easley
Contact 2:
FAX / Email 2 913-492-7443

Special Instructions: Please email results to teeasley@terracon.com

Matrix:

- [ ] Air
- [ ] Water
- [ ] Soil
- [ ] Paint
- [x] Bulk
- [ ] Surface Dust / Wipe
- [ ] Other _____

Analysis Method:

- [x] PLM : Bulk Asbestos Building Materials EPA 600 / R 93-116

- [ ] PLM : Point Counting
  - [ ] PC : via ELAP 198.1
  - [ ] PC : 400 Points
  - [ ] PC : 800 Points *
  - [ ] PC : other _____ Points *
- [ ] PLM : Analyze Until Positive (Positive Stop)
  - [ ] AUP : by Homogenous Area as Noted
  - [ ] AUP : by Material Type as Noted
- [ ] PLM : Non-Building Material *, **(Dust, Wipe, Tape, Soil)
  - [ ] Soil or Vermiculite Analysis *, **
- [ ] PLM : Gravimetric Reduction
  - [ ] PLM : NOB via 198.6
  - [ ] PLM : Friable via EPA 600 2.3
  - [ ] If <1% by PLM, to TEM via 198.4 *
  - [ ] If <1% by PLM, Hold for Instructions
- [x] PLM: Instructions for Multi-Layered Samples
  - [x] Analyze and Report All Separable Layers per EPA 600
  - [x] Report Composite for Drywall Systems per NESHAP
  - [ ] Report All Layers and Composite Where Applicable
  - [ ] Only Analyze and Report Specifically Noted Layer

* Additional charge and turnaround may be required. ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory.

Turnaround Time:

Preliminary Results Requested By... _____ date / time

- [ ] Verbals
- [ ] FAX
- [x] Email

- [ ] 10 Day
- [x] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day*
- [ ] 12 Hour**
- [ ] 6 Hour**
- [ ] RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. Please notify the lab before shipping.

Sample Numbers:

Client #(s): 01 (start) - 57 (end) iATL#(s): _____ (start) - _____ (end) Total: _____

Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com

Chain of Custody:

Relinquished (Name / Organization):	Brad	Date:	Time:
Received (Name / iATL):	RECEIVED	Date:	Time:
Sample Login (Name / iATL):		Date:	Time:
Sample Prep (Name / iATL):		Date:	Time:
Analysis(Name(s) / iATL):	DuDa	Date: 2/19/24 FEB	Time:
QA/QC Review (Name / iATL):		Date:	Time:
Archived / Released:	QA/QC InterLAB Use:	Date:	Time:

iATL - By _____

Chain of Custody / Sample Log
Bulk Asbestos

9000 Commerce Parkway
Suite B
Mt. Laurel, NJ 08054
Toll Free: 877 428-4285
info@iatl.com
www.iatl.com

Client: Terracon Consultants, Inc. (Terracon)
15620 West 113th St.
Lenexa, Kansas 66219

Project Name: [illegible]
Project No.: [illegible]

Office Phone: 913-492-7777
Cell Phone:
FAX / Email 1: tim.easley@terracon.com

Contact 1: Timothy Easley
Contact 2:
FAX / Email 2 913-492-7443

Special Instructions: Please email results to teeasley@terracon.com

Matrix:

- [ ] Air
- [ ] Water
- [ ] Soil
- [ ] Paint
- [x] Bulk
- [ ] Surface Dust / Wipe
- [ ] Other _____

Analysis Method:

- [x] PLM : Bulk Asbestos Building Materials EPA 600 / R 93-116

- [ ] PLM : Point Counting
  - [ ] PC : via ELAP 198.1
  - [ ] PC : 400 Points
  - [ ] PC : 800 Points *
  - [ ] PC : other _____ Points *
- [ ] PLM : Gravimetric Reduction
  - [ ] PLM : NOB via 198.6
  - [ ] PLM : Friable via EPA 600 2.3
  - [ ] If <1% by PLM, to TEM via 198.4 *
  - [ ] If <1% by PLM, Hold for Instructions
- [ ] PLM : Analyze Until Positive (Positive Stop)
  - [ ] AUP : by Homogenous Area as Noted
  - [ ] AUP : by Material Type as Noted
- [ ] PLM : Non-Building Material *, **(Dust, Wipe, Tape, Soil)
  - [ ] Soil or Vermiculite Analysis *, **
- [x] PLM: Instructions for Multi-Layered Samples
  - [x] Analyze and Report All Separable Layers per EPA 600
  - [ ] Report Composite for Drywall Systems per NESHAP
  - [ ] Report All Layers and Composite Where Applicable
  - [ ] Only Analyze and Report Specifically Noted Layer

* Additional charge and turnaround may be required. ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory.

Turnaround Time:

Preliminary Results Requested By... _____ ❑ Verbals ❑ FAX ❑ Email
date / time

- [ ] 10 Day
- [x] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day*
- [ ] 12 Hour**
- [ ] 6 Hour**
- [ ] RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. Please notify the lab before shipping.

Sample Numbers:

Client #(s): 21 (start) - 57 (end) iATL#(s): _____ (start) - _____ (end) Total: _____

Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com

Chain of Custody:

Relinquished (Name / Organization):	[illegible]	Date:	Time:
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):		Date:	Time:
Sample Prep (Name / iATL):		Date:	Time:
Analysis(Name(s) / iATL):	02 21 24	Date:	Time:
QA/QC Review (Name / iATL):		Date:	Time:
Archived / Released:	QA/QC InterLAB Use:	Date:	Time:

RECEIVED

iATL - By _____

Asbestos Sample Location Log

Project # - 02237353
Building - Fire Station #1 Lee's Summit, MO
Inspector(s) - Tim Easley
Signature -

Sample Number (HA-BS Code-Sample No)	Color/Pattern/ Texture	Sample Location	Collection Date
01 - WB1 - 01	Gypsum wallboard	Basement - hall at vending	7725949
" - " - 02	w/joint compound	1st fl Break room - westside	7725950
" - " - 03	"	2nd fl hall near Day room	7725951
02 - MIS - 04	Exhaust Insulation	Basement - mechanical room	7725952
" - " - 05	"	" "	7725953
" - " - 06	"	1st floor - Apparatus Bay NE corner	7725954
03 - SCS - 07	white sealant	Basement mechanical room - northside	7725955
" - " - 08	on fiberglass pipe insulation	" " southside	7725956
" - " - 09	"	" " "	7725957
04 - CT4 - 10	2x4 Dot pattern	Basement - Auditorium eastside	7725958
" - " - 11	ceiling tile	" - center hall	7725959
" - " - 12	"	" - Video Tech room	7725960
05 - CT4 - 13	2x4 ceiling	1st fl - reception area	7725961
" - " - 14	tile pinhole	" - hall eastend	7725962
" - " - 15	pattern	2nd fl. - Day room eastside	7725963
06 - CT4 - 16	2x4 Smooth	Basement - Dispatch - SE	7725964
" - " - 17	ceiling tile	" " SW	7725965
" - " - 18	"	" " NW	7725966
07 - CT4 - 19	2x4 fissure	Basement It room - eastside	7725967
" - " - 20	pattern ceiling	" " SW	7725968
" - " - 21	tile	" " NW	7725969

Asbestos Sample Location Log

Project # - 02237853
Building - Fire Station #1 Lee's Summit, MO
Inspector(s) - Tim Easley
Signature -

Sample Number (HA-BS Code-Sample No)	Color/Pattern/ Texture	Sample Location	Collection Date
08 - FT2 - 22	12"x12" white	Basement Dispatch Kitchen	7725970
" - " - 23	w/ gray floor tile	" "	7725971
" - " - 24	mastic	" "	7725972
09 - FT2 - 25	12"x12" gray	Basement stair landing	7725973
" - " - 26	floor tile	1st floor stair landing at door to Apparatus Bay	7725974
" - " - 27	"	" "	7725975
10 - FT2 - 28	12"x12" tan	2nd floor Laundry room	7725976
" - " - 29	floor tile	" "	7725977
" - " - 30	mastic	" "	7725978
11 - FT2 - 31	12"x12" Brown	1st floor Apparatus Bay north center under cabinet	7725979
" - " - 32	floor tile	" "	7725980
" - " - 33	mastic	" "	7725981
12 - FC5 - 34	Brown Epoxy	Basement Hall by dispatch	7725982
" - " - 35	flooring	1st floor hall east end	7725983
" - " - 36	"	1st floor - north center hall	7725984
13 - MAY - 37	Tan Ceramic	1st fl hall at entry	7725985
" - " - 38	tile grout	Lobby at south office	7725986
" - " - 39	"	center hall at restrooms	7725987
14 - MG7 - 40	Carpet Glue	1st fl reception area - NE	7725988
" - " - 41	"	NW Asst Chief office	7725989
" - " - 42	"	2nd floor - Day room - SE	7725990

Start

Asbestos Sample Location Log

Project # - 02237353
Building - Fire Station #1 Lee's Summit, MO
Inspector(s) - Tim Easley
Signature - TE

Sample Number (HA-BS Code-Sample No)	Color/Pattern/ Texture	Sample Location	Collection Date
15 - FC3 - 43	Cove Base mastic	Basement Auditorium SE closet	7725991 2-7-24
/ - / - 44	/	1st floor Break room by sink	7725992
/ - / - 45	/	EMS storage SE	7725993
16 - CP1 - 46	cement panels	1st fl Apparatus Bay north side above cabinets	7725994
/ - / - 47	/	/ / /	7725995
/ - / - 48	/	/ / /	7725996
17 - CA1 - 49	window caulk	Exterior - north side - west	7725997
/ - / - 50	/	east side center	7725998
/ - / - 51	/	west side by garage	7725999
18 - RF5 - 52	membrane roofing w insulation	Roof - NE corner top layer	7726000
/ - / - 53	/	- SE corner	7726001
/ - / - 54	/	- SW corner	7726002
19 - RF5 - 55	tar/felt roofing w gypsum insulation	Roof - NE corner Bottom layer	7726003
/ - / - 56	/	- SE corner	7726004
/ - / - 57	/	- SW corner	7726005
- -			
- -			
- -			
- -			
- -			
- -			

APPENDIX D

LEAD SURVEY SAMPLE RESULTS

Kansas Lead Inspector:
Timothy Easley
License No. 101001-001794

XRF Paint Test Results
Fire Station #1
Lee's Summit, Missouri

Terracon Project No. 02237353
Test Date: February 7, 2024

Reading	Result	Pb	Location	Side	Component	Substrate	Color	Condition
1	Positive	1.06	Instrument Calibration NIST 2573					
2	Positive	1.13	Instrument Calibration NIST 2573					
3	Positive	1.09	Instrument Calibration NIST 2573					
4	Positive	1.09	Instrument Calibration NIST 2573					
5	Negative	0	Instrument Calibration NIST 2570					
6	Negative	0	Instrument Calibration NIST 2570					
7	Negative	0	Instrument Calibration NIST 2570					
8	Negative	0	Instrument Calibration NIST 2570					
9	Negative	0	Basement Dispatch	North	Wall	Drywall	Gray	Good
10	Negative	0	Basement Dispatch	East	Wall	Drywall	Gray	Good
11	Negative	0	Basement Dispatch	South	Wall	Drywall	Gray	Good
12	Negative	0	Basement Dispatch	West	Wall	Drywall	Gray	Good
13	Negative	0	Basement Dispatch	East	Door	Wood	Stain	Good
14	Negative	0	Basement Dispatch	East	Door Jamb	Metal	Gray	Good
15	Negative	0	Basement Dispatch	East	Cabinet	Wood	Stain	Good
16	Negative	0	Basement Dispatch	West	Door	Wood	Gray	Good
17	Negative	0	Basement Dispatch	West	Door Jamb	Metal	Gray	Good
18	Negative	0	Basement IT Room	North	Wall	Drywall	White	Good
19	Negative	0	Basement IT Room	North	Wall	Drywall	Yellow	Good
20	Negative	0	Basement IT Room	East	Wall	Drywall	White	Good

Pb = Lead in milligrams per square centimeter

XRF: SciAps, X550Pb
Serial No. 01340

Kansas Lead Inspector:
Timothy Easley
License No. 101001-001794

XRF Paint Test Results
Fire Station #1
Lee's Summit, Missouri

Terracon Project No. 02237353
Test Date: February 7, 2024

21	Negative	0	Basement IT Room	East	Wall	Drywall	Yellow	Good
22	Negative	0	Basement IT Room	South	Wall	Drywall	White	Good
23	Negative	0	Basement IT Room	South	Wall	Drywall	Yellow	Good
24	Negative	0	Basement IT Room	West	Door	Wood	Gray	Good
25	Negative	0	Basement IT Room	West	Door Jamb	Metal	White	Good
26	Negative	0	Basement Video Tech Room	North	Wall	Drywall	Gray	Good
27	Negative	0	Basement Video Tech Room	East	Wall	Drywall	Gray	Good
28	Negative	0	Basement Video Tech Room	South	Wall	Drywall	Gray	Good
29	Negative	0	Basement Video Tech Room	West	Wall	Drywall	Gray	Good
30	Negative	0	Basement Video Tech Room	North	Door	Wood	Gray	Good
31	Negative	0	Basement Video Tech Room	North	Door Jamb	Metal	Gray	Good
32	Negative	0.01	Basement Video Tech Room	North	Window Frame	Metal	Brown	Good
33	Negative	0	Basement EMS Office	North	Wall	Drywall	Gray	Good
34	Negative	0	Basement EMS Office	East	Wall	Drywall	Gray	Good
35	Negative	0	Basement EMS Office	South	Wall	Drywall	Gray	Good
36	Negative	0	Basement EMS Office	West	Wall	Drywall	Gray	Good
37	Negative	0	Basement EMS Office	South	Door	Wood	Gray	Good
38	Negative	0.01	Basement EMS Office	South	Door Jamb	Metal	Gray	Good
39	Negative	0.01	Basement EMS Office	East	Window Frame	Metal	Brown	Good
40	Negative	0	Basement Auditorium	North	Wall	Drywall	White	Good
41	Negative	0	Basement Auditorium	East	Wall	Drywall	White	Good

Pb = Lead in milligrams per square centimeter

XRF: SciAps, X550Pb
Serial No. 01340

42	Negative	0	Basement Auditorium	South	Wall	Drywall	White	Good
43	Negative	0	Basement Auditorium	West	Wall	Drywall	White	Good
44	Negative	0	Basement Auditorium	South	Wall	Concrete Block	White	Good
45	Negative	0	Basement Auditorium	West	Door	Wood	Gray	Good
46	Negative	0.01	Basement Auditorium	West	Door Jamb	Metal	Gray	Good
47	Negative	0	Basement Auditorium	East	Door	Wood	Gray	Good
48	Negative	0.01	Basement Auditorium	East	Door Jamb	Metal	Gray	Good
49	Negative	0	Basement Auditorium Sleeping Room	North	Wall	Drywall	Gray	Good
50	Negative	0	Basement Auditorium Sleeping Room	East	Wall	Drywall	Gray	Good
51	Negative	0	Basement Auditorium Sleeping Room	South	Wall	Drywall	Gray	Good
52	Negative	0	Basement Auditorium Sleeping Room	West	Wall	Drywall	Gray	Good
53	Negative	0	Basement Auditorium Sleeping Room	East	Soffit	Drywall	Gray	Good
54	Negative	0	Basement Auditorium Sleeping Room		Floor	Concrete	Gray	Peeling
55	Negative	0	Basement Auditorium Sleeping Room	North	Door	Wood	Gray	Good
56	Negative	0	Basement Auditorium Sleeping Room	North	Door Jamb	Metal	Gray	Good
57	Negative	0	Basement Men's Restroom	North	Wall	Drywall	Gray	Good
58	Negative	0	Basement Men's Restroom	East	Wall	Drywall	Gray	Good
59	Negative	0	Basement Men's Restroom	South	Wall	Drywall	Gray	Good
60	Negative	0	Basement Men's Restroom	West	Wall	Drywall	Gray	Good
61	Negative	0	Basement Men's Restroom	West	Door	Wood	Gray	Good
62	Negative	0.02	Basement Men's Restroom	West	Door Jamb	Metal	Gray	Good

63	Negative	0	Basement Hall	North	Wall	Drywall	Gray	Good
64	Negative	0	Basement Hall	East	Wall	Drywall	Gray	Good
65	Negative	0	Basement Hall	South	Wall	Drywall	Gray	Good
66	Negative	0	Basement Hall	West	Wall	Drywall	Gray	Good
67	Negative	0	Basement Hall vending		Floor	Concrete	Tan	Peeling
68	Negative	0.01	Basement Hall	West	Window Frame	Metal	Gray	Good
69	Negative	0	South Stair	North	Wall	Drywall	Tan	Good
70	Negative	0	South Stair	South	Wall	Concrete	Tan	Good
71	Negative	0	South Stair	West	Wall	Drywall	Tan	Good
72	Negative	0	South Stair	South	Wall	Concrete Block	Tan	Good
73	Negative	0	South Stair		Stair Tread	Concrete	Gray	Good
74	Negative	0.02	South Stair		Stair Riser	Metal	Gray	Good
75	Negative	0.08	South Stair		Stair Stringer	Metal	Gray	Good
76	Negative	0.01	South Stair		Stair Handrail	Metal	Gray	Good
77	Negative	0	1st Floor Plans Examiner Office	North	Wall	Drywall	Gray	Good
78	Negative	0	1st Floor Plans Examiner Office	East	Wall	Drywall	Gray	Good
79	Negative	0	1st Floor Plans Examiner Office	South	Wall	Drywall	Gray	Good
80	Negative	0	1st Floor Plans Examiner Office	West	Wall	Drywall	Gray	Good
81	Negative	0	1st Floor Plans Examiner Office	South	Door	Wood	Gray	Good
82	Negative	0	1st Floor Plans Examiner Office	South	Door Jamb	Metal	Gray	Good
83	Negative	0	1st Floor EMS Storage	North	Wall	Drywall	Tan	Good

Kansas Lead Inspector:
Timothy Easley
License No. 101001-001794

XRF Paint Test Results
Fire Station #1
Lee's Summit, Missouri

Terracon Project No. 02237353
Test Date: February 7, 2024

84	Negative	0	1st Floor EMS Storage	East	Wall	Drywall	White	Good
85	Negative	0	1st Floor EMS Storage	South	Wall	Drywall	Tan	Good
86	Negative	0	1st Floor EMS Storage	West	Wall	Drywall	White	Good
87	Negative	0.02	1st Floor EMS Storage	East	Door	Wood	Brown	Good
88	Negative	0.01	1st Floor EMS Storage	East	Door Jamb	Metal	Brown	Good
89	Negative	0	1st Floor Break Room	North	Wall	Drywall	Tan	Good
90	Negative	0	1st Floor Break Room	East	Wall	Drywall	Tan	Good
91	Negative	0	1st Floor Break Room	South	Wall	Drywall	Tan	Good
92	Negative	0	1st Floor Break Room	West	Wall	Drywall	Tan	Good
93	Negative	0.1	1st Floor Break Room	East	Door	Metal	Blue	Good
94	Negative	0.01	1st Floor Break Room	East	Door Jamb	Metal	Blue	Good
95	Negative	0	1st Floor Assistant Chief NE office	North	Wall	Drywall	Gray	Good
96	Negative	0	1st Floor Assistant Chief NE office	East	Wall	Drywall	Gray	Good
97	Negative	0	1st Floor Assistant Chief NE office	South	Wall	Drywall	Gray	Good
98	Negative	0	1st Floor Assistant Chief NE office	West	Wall	Drywall	Gray	Good
99	Negative	0	1st Floor Assistant Chief NE office	East	Door	Wood	Blue	Good
100	Negative	0	1st Floor Assistant Chief NE office	East	Door Jamb	Metal	Blue	Good
101	Negative	0	1st Floor Janitor Closet	North	Wall	Drywall	White	Good
102	Negative	0	1st Floor Janitor Closet	East	Wall	Drywall	White	Good
103	Negative	0	1st Floor Janitor Closet	West	Wall	Drywall	White	Good
104	Negative	0	1st Floor Janitor Closet		Floor	Concrete	Gray	Peeling

Pb = Lead in milligrams per square centimeter

XRF: SciAps, X550Pb
Serial No. 01340

Kansas Lead Inspector:
Timothy Easley
License No. 101001-001794

XRF Paint Test Results
Fire Station #1
Lee's Summit, Missouri

Terracon Project No. 02237353
Test Date: February 7, 2024

105	Negative	0	1st Floor Janitor Closet	East	Door	Wood	Blue	Good
106	Negative	0	1st Floor Janitor Closet	East	Door Jamb	Metal	Blue	Good
107	Negative	0	1st Floor Hall	North	Wall	Drywall	Tan	Good
108	Negative	0	1st Floor Hall	East	Wall	Drywall	Tan	Good
109	Negative	0	1st Floor Hall	South	Wall	Drywall	Tan	Good
110	Negative	0	1st Floor Hall	West	Wall	Drywall	Tan	Good
111	Negative	0	1st Floor Men's Restroom	North	Wall	Drywall	Tan	Good
112	Negative	0	1st Floor Men's Restroom	East	Wall	Drywall	Tan	Good
113	Negative	0	1st Floor Men's Restroom	South	Wall	Drywall	Tan	Good
114	Negative	0	1st Floor Men's Restroom	West	Wall	Drywall	Tan	Good
115	Negative	0.01	1st Floor Men's Restroom	South	Door	Wood	Blue	Good
116	Negative	0	1st Floor Men's Restroom	South	Door Jamb	Metal	Blue	Good
117	Negative	0	1st floor Hall Closet by Restrooms	South	Door	Wood	Stain	Good
118	Negative	0	1st floor Hall Closet by Restrooms	South	Door Jamb	Wood	Stain	Good
119	Negative	0	1st floor Hall Closet by Restrooms	South	Door casing	Wood	Stain	Good
120	Negative	0	1st Floor Assistant Chief North Center office	North	Wall	Drywall	Tan	Good
121	Negative	0	1st Floor Assistant Chief North Center office	East	Wall	Drywall	Tan	Good
122	Negative	0	1st Floor Assistant Chief North Center office	South	Wall	Drywall	Tan	Good
123	Negative	0	1st Floor Assistant Chief North Center office	West	Wall	Drywall	Tan	Good
124	Negative	0	1st Floor Assistant Chief North Center office	South	Door	Wood	Black	Good
125	Negative	0	1st Floor Assistant Chief North Center office	South	Door Jamb	Metal	Black	Good

Pb = Lead in milligrams per square centimeter

XRF: SciAps, X550Pb
Serial No. 01340

126	Negative	0	1st Floor Assistant Chief NW office	North	Wall	Drywall	Tan	Good
127	Negative	0	1st Floor Assistant Chief NW office	East	Wall	Drywall	Tan	Good
128	Negative	0	1st Floor Assistant Chief NW office	South	Wall	Drywall	Tan	Good
129	Negative	0	1st Floor Assistant Chief NW office	West	Wall	Drywall	Tan	Good
130	Negative	0	1st Floor Assistant Chief NW office	South	Door	Wood	Black	Good
131	Negative	0	1st Floor Assistant Chief NW office	South	Door Jamb	Metal	Black	Good
132	Negative	0	1st Floor Fire Chief office	North	Wall	Drywall	Tan	Good
133	Negative	0	1st Floor Fire Chief office	East	Wall	Drywall	Tan	Good
134	Negative	0	1st Floor Fire Chief office	South	Wall	Drywall	Tan	Good
135	Negative	0	1st Floor Fire Chief office	West	Wall	Drywall	Tan	Good
136	Negative	0	1st Floor Fire Chief office	South	Door	Wood	Brown	Good
137	Negative	0	1st Floor Fire Chief office	South	Door Jamb	Metal	Brown	Good
138	Negative	0	1st Floor Reception office	North	Wall	Drywall	Tan	Good
139	Negative	0	1st Floor Reception office	East	Wall	Drywall	Purple	Good
140	Negative	0	1st Floor Reception office	South	Wall	Drywall	Tan	Good
141	Negative	0	1st Floor Reception office	West	Wall	Drywall	Tan	Good
142	Negative	0	1st Floor Kitchen	North	Wall	Drywall	Tan	Good
143	Negative	0	1st Floor Kitchen	East	Wall	Drywall	Tan	Good
144	Negative	0	1st Floor Kitchen	South	Wall	Drywall	Tan	Good
145	Negative	0	1st Floor Kitchen	West	Wall	Drywall	Tan	Good
146	Negative	0	1st Floor Kitchen	South	Door	Wood	Black	Good

147	Negative	0.01	1st Floor Kitchen	South	Door Jamb	Metal	Black	Good
148	Negative	0	1st Floor Deputy Chief office	North	Wall	Drywall	White	Good
149	Negative	0	1st Floor Deputy Chief office	East	Wall	Drywall	White	Good
150	Negative	0	1st Floor Deputy Chief office	South	Wall	Drywall	White	Good
151	Negative	0	1st Floor Deputy Chief office	West	Wall	Drywall	White	Good
152	Negative	0	Apparatus Bay	North	Wall	Concrete Block	Tan	Good
153	Negative	0	Apparatus Bay	East	Wall	Concrete	Tan	Peeling
154	Negative	0	Apparatus Bay	South	Wall	Concrete	Tan	Peeling
155	Negative	0	Apparatus Bay	West	Wall	Concrete	Tan	Peeling
156	Negative	0	Apparatus Bay	North	Wall	Concrete	Yellow	Good
157	Negative	0	Apparatus Bay	North	Wall	Concrete	Tan	Good
158	Negative	0	Apparatus Bay	North	Wall	Concrete	Blue	Good
159	Negative	0	Apparatus Bay	North	Drain Pipe	Metal	White	Peeling
160	Negative	0	Stair to 2nd Floor	North	Wall	Drywall	Tan	Good
161	Negative	0	Stair to 2nd Floor	South	Wall	Concrete Block	Tan	Good
162	Negative	0	Stair to 2nd Floor	West	Wall	Drywall	Tan	Good
163	Negative	0	Stair to 2nd Floor		Stair Tread	Concrete	Gray	Good
164	Negative	0.01	Stair to 2nd Floor		Stair Riser	Metal	Gray	Good
165	Negative	0.04	Stair to 2nd Floor		Stair Stringer	Metal	Gray	Good
166	Negative	0.07	Stair to 2nd Floor		Stair Handrail	Metal	Gray	Good
167	Negative	0	2nd Floor NW office	North	Wall	Drywall	Tan	Good

168	Negative	0	2nd Floor NW office	East	Wall	Drywall	Tan	Good
169	Negative	0	2nd Floor NW office	South	Wall	Drywall	Tan	Good
170	Negative	0	2nd Floor NW office	West	Wall	Drywall	Tan	Good
171	Negative	0	2nd Floor NW office	South	Door	Wood	Gray	Good
172	Negative	0	2nd Floor NW office	South	Door Jamb	Metal	Gray	Good
173	Negative	0	2nd Floor SW Training Room	North	Wall	Drywall	Gray	Good
174	Negative	0	2nd Floor SW Training Room	East	Wall	Drywall	Gray	Good
175	Negative	0	2nd Floor SW Training Room	West	Wall	Drywall	Gray	Good
176	Negative	0.01	2nd Floor SW Training Room	North	Door	Wood	Gray	Good
177	Negative	-0.01	2nd Floor SW Training Room	North	Door Jamb	Metal	Gray	Good
178	Negative	0	2nd Floor Day Room	North	Wall	Drywall	Gray	Good
179	Negative	0	2nd Floor Day Room	East	Wall	Drywall	Gray	Good
180	Negative	0	2nd Floor Day Room	South	Wall	Drywall	Gray	Good
181	Negative	0	2nd Floor Day Room	West	Wall	Drywall	Gray	Good
182	Negative	0.02	2nd Floor Day Room	South	Window Frame	Metal	Gray	Good
183	Negative	0	2nd Floor Kitchen	North	Wall	Drywall	Gray	Good
184	Negative	0	2nd Floor Kitchen	East	Wall	Drywall	Gray	Good
185	Negative	0	2nd Floor Kitchen	South	Wall	Drywall	Gray	Good
186	Negative	0	2nd Floor Kitchen	West	Wall	Drywall	Gray	Good
187	Negative	0	2nd Floor Kitchen	North	Cabinet	Wood	Gray	Good
188	Negative	0	2nd Floor Janitor Closet	North	Wall	Drywall	Yellow	Good

189	Negative	0	2nd Floor Janitor Closet	East	Wall	Drywall	Yellow	Good
190	Negative	0	2nd Floor Janitor Closet	South	Wall	Drywall	Yellow	Good
191	Negative	0	2nd Floor Janitor Closet	West	Wall	Drywall	Yellow	Good
192	Negative	0	2nd Floor Janitor Closet	North	Door	Wood	Gray	Good
193	Negative	0.01	2nd Floor Janitor Closet	North	Door Jamb	Metal	Gray	Good
194	Negative	0	2nd Floor Bunk Room	North	Wall	Drywall	Gray	Good
195	Negative	0	2nd Floor Bunk Room	East	Wall	Drywall	Gray	Good
196	Negative	0	2nd Floor Bunk Room	South	Wall	Drywall	Gray	Good
197	Negative	0	2nd Floor Bunk Room	West	Wall	Drywall	Gray	Good
198	Negative	0	2nd Floor Bunk Room	West	Door	Wood	Gray	Good
199	Negative	0	2nd Floor Bunk Room	West	Door Jamb	Wood	Gray	Good
200	Negative	0	2nd Floor Bunk Room	West	Door casing	Wood	Stain	Good
201	Negative	0	2nd Floor Bunk Room	North	Wall	Drywall	Gray	Good
202	Negative	0	2nd Floor Bunk Room	East	Wall	Drywall	Gray	Good
203	Negative	0	2nd Floor Bunk Room	South	Wall	Drywall	Gray	Good
204	Negative	0	2nd Floor Bunk Room	West	Wall	Drywall	Gray	Good
205	Negative	0	2nd Floor Bunk Room	North	Door	Wood	Gray	Good
206	Negative	0	2nd Floor Bunk Room	North	Door Jamb	Wood	Gray	Good
207	Negative	0	2nd Floor Bunk Room	North	Door casing	Wood	Stain	Good
208	Negative	0	2nd Floor Excercise Room	North	Wall	Drywall	Gray	Good
209	Negative	0	2nd Floor Excercise Room	East	Wall	Drywall	Gray	Good

210	Negative	0	2nd Floor Excercise Room	South	Wall	Drywall	Gray	Good
211	Negative	0	2nd Floor Excercise Room	West	Wall	Drywall	Gray	Good
212	Negative	0.01	2nd Floor Excercise Room	South	Door	Wood	Gray	Good
213	Negative	0	2nd Floor Excercise Room	South	Door Jamb	Metal	Gray	Good
214	Negative	0	2nd Floor Men's Restroom	North	Wall	Drywall	Gray	Good
215	Negative	0	2nd Floor Men's Restroom	East	Wall	Drywall	Gray	Good
216	Negative	0	2nd Floor Men's Restroom	South	Wall	Drywall	Gray	Good
217	Negative	0	2nd Floor Men's Restroom	West	Wall	Drywall	Gray	Good
218	Negative	0	2nd Floor Men's Restroom	North	Door	Wood	Gray	Good
219	Negative	0	2nd Floor Men's Restroom	North	Door Jamb	Metal	Gray	Good
220	Negative	0	Exterior	North	Window Well	Concrete	White	Good
221	Negative	0	Exterior	North	Door	Metal	White	Good
222	Negative	0	Exterior	North	Door Jamb	Metal	White	Good
223	Negative	0	Exterior	North	Stair Wall	Concrete	Tan	Good
224	Negative	0	Exterior	North	Stair Handrail	Metal	Brown	Good
225	Negative	0	Exterior	East	Wall	Stone	Tan	Good
226	Negative	0	Exterior	East	Column	Concrete	Tan	Good
227	Negative	0	Exterior	South	Door	Metal	Tan	Good
228	Negative	0	Exterior	South	Door Jamb	Metal	Tan	Good
229	Negative	0	Exterior	West	Column	Concrete	Tan	Good
230	Negative	0	Exterior	West	Column	Concrete	Tan	Good

231	Negative	0	Exterior	West	Window Well	Concrete	White	Good	
232	Positive	1.1	Instrument Calibration NIST 2573						
233	Positive	1.06	Instrument Calibration NIST 2573						
234	Positive	1.1	Instrument Calibration NIST 2573						
235	Negative	0	Instrument Calibration NIST 2570						
236	Negative	0	Instrument Calibration NIST 2570						
237	Negative	0	Instrument Calibration NIST 2570						

APPENDIX E

LICENSES AND CERTIFICATIONS

CERTIFICATION NUMBER:

7011101923MOIR3337

THIS CERTIFIES

Timothy E Easley

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector

APPROVED: **11/03/2023**

EXPIRES: **11/03/2024**

TRAINING DATE: **10/19/2023**

Director of Air Pollution Control Program

The holder of this card is certified to conduct the specified occupation in conjunction with an asbestos abatement project under the certification requirements, in RSMo, 10 CSR 10-6.250.

It is unlawful for any person to use this card other than the individual to whom it is issued or in any manner inconsistent with the law.

Violations of Missouri State Rule 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants," which adopts by reference 40 CFR, Part 61, Subpart M, the "National Emission Standards for Asbestos," are subject to fines of not more than $10,000 per day per violation. This Missouri State Certification is subject to review and the director may deny, suspend or revoke this certification per RSMo, chapter 643.230.

If found, please return to:

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102
Phone: (573)751-4817 Fax:(573)751-2706
www.dnr.mo.gov/env/apcp

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Timothy E. Easley

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Inspector
Category of License

Issuance Date:	**10/1/2022**
Expiration Date:	**10/1/2024**
License Number:	**101001-001794**

Paula F. Nickelson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

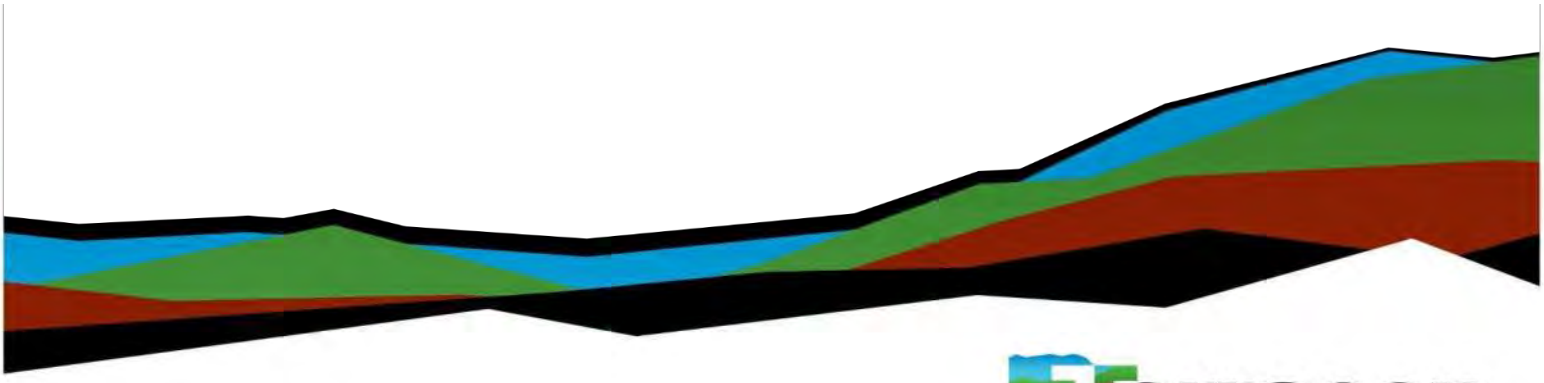
Lee’s Summit Fire Station No. 1

Geotechnical Engineering Report

March 7, 2024 | Terracon Project No. 02235318

Prepared for:

WSKF Architects
North Kansas City, Missouri 64116



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March 7, 2024

WSKF Architects
110 Armour Road
North Kansas City, Missouri 64116

Attn: Dalyn Novak, RA, NCARB, LEED AP
816.300.4101
dvovak@wskfarch.com

Re: Geotechnical Engineering Report
Lee's Summit Fire Station No. 1
207 SE Douglas Street
Lee's Summit, Missouri
Terracon Project No. 02235318

Dear Ms. Novak:

We have completed a subsurface exploration and geotechnical engineering evaluation for the referenced project in general accordance with Terracon Proposal No. P02235318 dated October 30, 2023. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork and the design and construction of foundations, floor slabs, and pavements for the project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,

Terracon

Daniel A. Barnett, P.G.
Project Geologist

Kole C. Berg, P.E.
Senior Consultant
Missouri: 2002016417

3/8/2024

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Note: This report was originally delivered in a web-based format. Blue Bold text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the Terracon logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

Refer to each individual Attachment for a listing of contents.

Introduction

This report presents the results of our subsurface exploration and Geotechnical Engineering services performed for the proposed Fire Station No. 1 planned at 207 SE Douglas Street in Lee's Summit, Missouri. The purpose of these services was to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil and rock conditions
- Groundwater conditions
- IBC seismic site class
- Site preparation and earthwork
- Demolition considerations
- Foundations
- Floor slabs
- Lateral earth pressure parameters
- Pavements

Drawings showing the site and boring locations are shown on the attached Site Location Plan and Exploration Plan. The results of the laboratory testing performed on soil samples obtained from the site during our field exploration are included on the boring logs and test data sheets in Exploration Results.

Project Description

Item	Description
Information Provided	An email request for proposal was provided by McClure on October 24, 2023. The request included a site layout plan and information about the proposed fire station building.
Project Description	The project consists of demolition of the existing fire station building and construction of a new fire station building.
Proposed Building	The proposed building will be a two-story, steel-framed structure with a basement level.
Finished Floor Elevation (FFE)	The FFE of the building was not provided. We have assumed the first floor FFE will be within 3 feet of existing grades.

Item	Description
Maximum Loads	Anticipated structural loads were not provided. We have assumed the following maximum loads based on our experience with similar projects. ■ Columns: 300 kips ■ Walls: 5 kips per linear foot (klf) ■ Slabs: 250 pounds per square foot (psf)
Grading	A site grading plan was not provided. We have considered no more than 3 feet of cut/fill will be required to develop final grades. Deeper excavation will be required in the basement area.
Below-Grade Structures	The building will have a basement level that extends about 10 feet below the first floor FFE. We anticipate the building will also have below-grade elevator pit walls. The recommendations provided in this report are based on our understanding that the basement will extend beneath the entire building footprint. If a slab-on-grade portion is planned, Terracon should be notified so we can provide additional recommendations regarding the effects of expansive clay soils on slabs supported at/near existing grades.
Free-Standing Retaining Walls	No free-standing retaining walls are planned.
Pavements	We anticipate new pavements will be constructed. No information regarding anticipated vehicle types, axle loads, or traffic volumes was provided. Based on our experience with other fire station projects, we anticipate that asphalt and concrete pavements will be used. We anticipate the pavements will be utilized primarily by fire trucks and personal vehicles.

Terracon should be notified if any of the above information is inconsistent with the planned construction, especially the grading limits, as modifications to our recommendations may be necessary.

Site Conditions

Item	Description
Project Location	The existing fire station is located at 207 SE Douglas Street in Lee's Summit, Missouri. Approximate Latitude/Longitude: 38.9137, -94.3766 (See Site Location)
Existing Improvements	The project site is occupied by an existing fire station building, and associated pavements. The existing structures will be demolished to accommodate new construction.
Existing Topography	A topographic site plan was not provided. Based on our review of topography using an online mapping application, site grades slope gradually down to the northeast. Surface elevations range from approximately 1,022 to 1,028 feet.
Geology	The project site is underlain by rock units of the Pennsylvanian Series, Missourian Stage, Kansas City Group, Chanute Shale Formation in the time stratigraphic unit age classification.

Geotechnical Characterization

We have developed a general characterization of the subsurface conditions based on the subsurface exploration, laboratory data, geologic setting, and our understanding of the project. This characterization, termed GeoModel, forms the basis of our geotechnical evaluation. Conditions observed at each boring location are indicated on the individual logs. The individual logs are in the Exploration Results and the GeoModel is in the Figures attachment of this report.

Model Layer	Layer Name	General Description
1	Existing Fill	Fat clay with variable amounts of gravel
2	Residual Clay	Fat clay, medium stiff to very stiff
3	Bedrock	Highly to moderately weathered shale with sandstone seams

The borings were observed during drilling and shortly after completion of drilling for the presence and level of water. Groundwater was observed at depths of approximately 18½ feet to 19 feet in Borings B-1, B-2, and B-3. Groundwater was not encountered in Boring B-4 at these times. A longer period of time may be required for groundwater to

develop and stabilize in a borehole. Longer term observations in piezometers or observation wells, sealed from the influence of surface water, are often required to define groundwater levels.

Groundwater levels may fluctuate due to seasonal variations in the amount of rainfall, runoff, and other factors not evident at the time the borings were performed. "Perched" water could occur above lower permeability soil layers and/or near the soil/bedrock interface, and "trapped" water could be present within existing fill materials. Therefore, groundwater conditions at other times may be different than the conditions encountered in our exploratory borings. The potential for water level fluctuations and perched water should be considered when developing design and construction plans and specifications for the project.

Seismic Site Class

The seismic design requirements for buildings and other structures are based on Seismic Design Category. The Site Class is required to determine the Seismic Design Category for a structure. The Site Class is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC). Based on the soil and bedrock encountered in our subsurface exploration, Seismic Site Class C can be considered for design of the project. The subsurface exploration at this site extended to a maximum depth of 19½ feet. The site properties below the maximum boring depth were estimated based on our experience and knowledge of geologic conditions of the general area. Upon request, we could perform deeper borings or geophysical testing to confirm the conditions below the current maximum boring depth.

Geotechnical Overview

Based on the anticipated basement floor elevation of the proposed building, and the depth to shale bedrock encountered in our exploratory borings, it appears feasible to support the building on footing foundations that bear on suitable shale bedrock.

The site is currently occupied by an existing fire station building. Existing foundations, walls, slabs, and associated utilities should be removed prior to the construction of the new building. Care should be taken to thoroughly remove all existing improvements that would interfere with the proposed new construction. Excavations created by demolition/removal of existing features should be backfilled with engineered fill that is placed and compacted as recommended in this report. The demolition contractor should be aware of project requirements for complete removal of existing features, observation/testing of the base of demolition excavations prior to backfilling, use of

appropriate backfill materials, and proper placement/compaction/testing of backfill materials so that removal of the demolition contractor's backfill materials and replacement under controlled conditions is not necessary when building construction commences.

Existing undocumented fill materials were encountered at the boring locations. Existing fill materials could also be present within the footprint of the existing building and within utility trenches. Based on field and laboratory test data, it appears that some compactive effort was applied to portions of the fill encountered at the boring locations. However, no documentation regarding placement and compaction of the fill was provided for our review. Structures supported on or above undocumented fill could experience larger-than-normal settlements, resulting in cracking and other damage to the new structures. Any undocumented fill encountered within the planned new building area should be removed and replaced with engineered fill. Existing fill may be left in place below new pavement areas provided it is observed, tested, and approved by Terracon during construction.

Underground utility lines are likely present within the proposed construction area. If these utilities are to remain in place, we recommend that the backfill be tested by a representative of Terracon at the time of construction. If these utilities are to be relocated, the resulting trenches should be overexcavated, backfilled, and tested in accordance with the recommendations in the Earthwork section of this report.

The recommendations contained in this report are based upon the results of field and laboratory testing (presented in the Exploration Results), engineering analyses, and our current understanding of the proposed project. The General Comments section provides an understanding of the report limitations.

Earthwork

Site preparation, excavation, subgrade preparation, and placement of engineered fill should follow the recommendations presented in this section. The recommendations presented for design and construction of earth-supported elements including foundations, slabs, and pavements are contingent upon the recommendations outlined in this section being followed. We recommend earthwork on this project be observed and evaluated by Terracon. The evaluation of earthwork should include observation and testing of subgrade preparation, engineered fill, foundation bearing soils, and other geotechnical conditions exposed during the construction of the project.

Site Preparation

The site is currently occupied by existing structures. Demolition of the existing structures should include removal of existing foundations, walls, floor slabs, pavements, sidewalks, and any loose, soft, otherwise unsuitable materials. Undocumented fill materials associated with the former structures should also be removed from the building area during demolition and initial site preparation. The demolition contractor should be aware of project requirements for complete removal of existing features, observation/testing of the base of demolition excavations prior to backfilling, use of appropriate backfill materials, and proper placement/compaction/testing of backfill materials so that removal of the demolition contractor's backfill materials and replacement under controlled conditions is not necessary when building construction commences.

Where vegetation/topsoil is currently present within proposed construction areas, all vegetation and organic soils should be stripped. Organic soils removed during site preparation should not be used as fill beneath the proposed building and pavement areas.

Following demolition of existing features and any necessary undercutting, the exposed materials should be proofrolled, where practical. A Terracon representative should observe the proofrolling. Proofrolling can be accomplished using a loaded tandem-axle dump truck with a gross weight of at least 20 tons, or similarly loaded equipment. Areas that display excessive deflection (pumping) or rutting during proofroll operations should be improved by scarification/compaction or by removal and replacement with engineered fill. In areas where proofrolling is not practical (such as within the basement excavation), the subgrade should be evaluated by a Terracon representative using visual observation and hand probing methods.

Excavation

Excavation of shale bedrock will be required to develop the planned basement floor elevation. In our experience, highly weathered shale that can be easily penetrated with a flight auger can typically be excavated using track-hoes with rock teeth or ripper equipped dozers. Excavation of harder shale is more difficult and may require large pneumatic breakers or other rock excavating techniques to complete the excavations. Excavation of rock formations in confined excavations (such as utility trenches or footings) is usually more difficult.

Fill Material Types

Fill required to achieve design grade should be classified as engineered fill and general fill. Engineered fill is material used below, or within 10 feet of structures. General fill is material used to achieve grade outside of these areas.

Reuse of On-Site Soil: Material property requirements for on-site soil for use as engineered fill are noted in the table below:

Fill Type	USCS Classification	Acceptable Location for Placement
Native Fat Clays and/or Lean to Fat Clays (LL≥45 and/or PI≥23)	CH, CL/CH	Pavement and landscape areas
Existing Fill	CH	Pavement and landscape areas Existing fill should be observed, tested and approved by Terracon. Organics, rock/rubble fragments larger than 3 inches, debris, or other unsuitable materials should be removed prior to re-use of the existing fill in engineered fill sections.
Shale	N/A	See discussion below

Excavation of shale bedrock will likely be required in the basement area of the building. Shale excavated from on-site should not be re-used as fill material (including as utility trench backfill below the building footprint or pavement areas). Although rock materials could be re-used if they are processed by crushing to a relatively small (3-inch minus) maximum particle size, it is likely not economical to set up a rock crushing operation on a project site of this size. In addition, quality control (field testing of moisture content and density) of compacted fill is difficult with rock materials. It would be more practical for this project to export any excavated shale fragments off-site and replace them with imported crushed stone aggregate or on-site clay, particularly for basement wall backfill and utility trench backfill.

Imported Fill Materials: Imported fill materials should meet the following material property requirements. Regardless of its source, compacted fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade.

Fill Type [1]	USCS Classification	Acceptable Location for Placement
Densely Graded Granular	GM [2]	All locations and elevations, except where free-draining material is required
Free Draining Granular [3]	GW, GP, SW, SP	Where free-draining material is required

1. Engineered fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade.
2. MoDOT Type 5 or an approved alternate gradation of crushed limestone aggregate
3. Granular materials with less than 5 percent fines (material passing the #200 sieve), such as ASTM C33 Size No. 57 aggregate or an approved alternate gradation

Fill Placement and Compaction Requirements

Engineered fil and general fill should meet the following compaction requirements.

Item	Engineered Fill	General Fill
Maximum Lift Thickness	8 inches or less in loose thickness when heavy, self-propelled compaction equipment is used 4 to 6 inches in loose thickness when hand-guided equipment (i.e., a jumping jack or plate compactor) is used	Same as engineered fill
Minimum Compaction Requirements [1,2,3]	95% of max. above foundations, below floor slabs, and below pavements	92% of max.
Water Content Range [1]	Low plasticity cohesive: -2% to +3% of optimum High plasticity cohesive: 0 to +4% of optimum Granular: -3% to +3% of optimum	As required to achieve min. compaction requirements

1. Maximum density and optimum water content as determined by the standard Proctor test (ASTM D698)
2. High plasticity cohesive fill should not be compacted to more than 100% of standard Proctor maximum dry density.
3. If the granular material is a coarse sand or gravel, or of a uniform size, or has a low fines content, compaction comparison to relative density may be more appropriate. In this case, granular materials should be compacted to at least 70% relative density (ASTM D4253 and D4254). Materials not amenable to density testing should be placed and compacted to a stable condition observed by the Geotechnical Engineer or representative.

Utility Trench Backfill

Any soft or unsuitable materials encountered at the bottom of utility trench excavations should be removed and replaced with engineered fill or bedding material in accordance with public works specifications for the utility be supported. This recommendation is particularly applicable to utility work requiring grade control and/or in areas where subsequent grade raising could cause settlement in the subgrade supporting the utility. Trench excavation should not be conducted below a downward 1:1 projection from existing foundations without engineering review of shoring requirements and geotechnical observation during construction.

Trench backfill should be mechanically placed and compacted as discussed earlier in this report. Compaction of initial lifts should be accomplished with hand-operated tampers or other lightweight compactors. Flooding or jetting for placement and compaction of backfill is not recommended.

Utility trenches are a common source of water infiltration and migration. Utility trenches that penetrate beneath the building should be effectively sealed to restrict water intrusion and flow through the trenches, which could migrate below the building. Each trench should be provided with an effective trench plug that extends at least 5 feet from the face of the building exterior. The plug material should consist of cementitious flowable fill or low permeability clay. The trench plug material should be placed to surround the utility line. If clay is used to construct the trench plug, the clay should be placed and compacted in accordance with the water content and compaction recommendations for engineered fill provided in this report.

Grading and Drainage

The site should be graded to provide effective drainage away from the building during and after construction, and these conditions should be maintained throughout the life of the structure. Accumulation of water adjacent to the structure could contribute to significant moisture increases in the subgrade soils and subsequent softening/settlement or

expansion/heave, which could result in soil movements greater than those discussed in this report. Greater movements can result in unacceptable differential floor slab and/or foundation movements, cracked slabs and walls, and roof leaks.

After building construction, paving, and landscaping have been completed, final grades should be verified to document effective drainage has been achieved. Grades around the structure should also be periodically inspected and adjusted, as necessary, as part of the structure's maintenance program. Where paving or flatwork abuts the structure, a maintenance program should be established to effectively seal and maintain joints and prevent surface water infiltration.

Earthwork Construction Considerations

Terracon should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation, proofrolling, placement and compaction of engineered fill, backfilling of excavations into completed subgrades, and just prior to construction of foundations, slabs, and pavements.

Where shale bedrock is encountered at the basement floor slab subgrade level, the shale must be protected from weathering and moisture fluctuations that could lead to swelling of the shale subgrade. Shale that is exposed to weathering and water will deteriorate rapidly, and construction traffic across the shale subgrade can cause further deterioration of the shale. Where exposed shale becomes saturated, disturbed, or weathered prior to placement of the slab, these materials should be removed and replaced with engineered fill.

Care should be taken to avoid disturbance of prepared pavement subgrades. Unstable subgrade conditions can develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. If unstable subgrade conditions develop, stabilization measures will need to be employed. Construction traffic over the completed subgrade should be avoided to the extent practical. If the subgrade becomes frozen, desiccated, saturated, or disturbed, the affected materials should be removed or these materials should be scarified, moisture conditioned, and compacted prior to floor slab construction.

Based on conditions encountered in the borings, significant seepage is generally not expected in excavations for this project (e.g., for basement excavation, footing construction, and utility installation). If seepage is encountered in excavations during construction, the contractor is responsible for designing, implementing, and maintaining appropriate dewatering methods to control seepage and facilitate construction. In our experience, dewatering of excavations in clay soils can typically be accomplished using sump pits and pumps. If seepage occurs where sandstone is encountered in excavations, a more extensive dewatering system may be required.

As a minimum, excavations should be performed in accordance with OSHA 29 CFR, Part 1926, Subpart P, "Excavations" and its appendices, and in accordance with any applicable local, state, and federal safety regulations. The contractor should be aware that slope height, slope inclination, and excavation depth should in no instance exceed those specified by these safety regulations. Flatter slopes than those dictated by these regulations may be required depending upon the soil conditions encountered and other external factors. These regulations are strictly enforced and if they are not followed, the owner, contractor, and/or earthwork and utility subcontractor could be liable and subject to substantial penalties. Under no circumstances should the information provided in this report be interpreted to mean that Terracon is responsible for construction site safety or the contractor's activities. Construction site safety is the sole responsibility of the contractor who shall also be solely responsible for the means, methods, and sequencing of the construction operations.

Construction Observation and Testing

The earthwork efforts should be observed by the Geotechnical Engineer (or others under their direction). Observation should include documentation of adequate removal of surficial materials (vegetation, topsoil, and pavements), evaluation and remediation of existing fill materials, as well as proofrolling and mitigation of unsuitable areas delineated by the proofroll.

In areas of foundation excavations, the bearing subgrade should be evaluated by the Geotechnical Engineer. If unanticipated conditions are observed, the Geotechnical Engineer should recommend mitigation options.

In addition to the documentation of the essential parameters necessary for construction, the continuation of the Geotechnical Engineer into the construction phase of the project provides the continuity to maintain the Geotechnical Engineer's evaluation of subsurface conditions, including assessing variations and associated design changes.

Footing Foundations

Based on the conditions encountered at the borings, the building can be supported on footing foundations that bear on suitable shale bedrock. Depending on the proposed basement floor slab elevation, deeper excavation may be required in some areas to expose suitable shale bedrock. Footings do not need to be constructed at lower elevations. Lean concrete can be used to backfill deepened footing excavations from the approved bearing materials up to the design bearing level as recommended in Foundation Construction Considerations.

Shallow Foundation Design Parameters

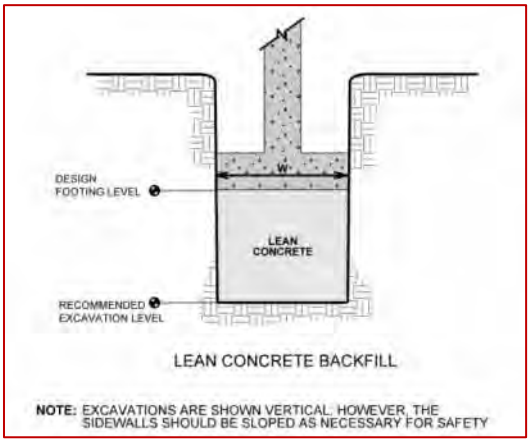
Item	Description
Bearing Material	Suitable shale bedrock
Maximum Net Allowable Bearing Pressure [1, 2, 3]	5,000 psf
Minimum Foundation Dimensions	Per IBC 1809.7
Minimum Embedment below Finished Grade [4]	3 feet
Estimated Total Settlement from Structural Loads [2]	Less than 1 inch
Estimated Differential Settlement [2, 5]	About 1/2 to 2/3 of total settlement

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation.
2. Values provided are for maximum loads noted in Project Description. Additional geotechnical consultation will be necessary if higher loads are anticipated.
3. Unsuitable or shale should be overexcavated and replaced.
4. The recommended minimum embedment depth is necessary to minimize the effects of frost and/or seasonal water content variations. Since all footings are expected to bear at the basement level, this recommendation is not expected to impact this project.
5. Differential settlements are noted for equivalent-loaded foundations and bearing elevation as measured over a span of 50 feet.

Foundation Construction Considerations

The base of all foundation excavations should be free of water, soil, and loose material prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing material disturbance. Care should be taken to prevent wetting or drying of the bearing materials during construction. If the materials at the bearing level become excessively dry, disturbed, saturated, or frozen, the affected material should be removed prior to placing concrete. If the excavations must remain open overnight or for an extended period of time, placement of a lean concrete mud-mat over the bearing materials should be considered.

The shale bearing materials at the base of each footing excavation should be evaluated by a representative of the Geotechnical Engineer. If unsuitable bearing materials are observed, the excavation should be extended deeper to suitable materials. The footings could bear directly on suitable shale materials at the lower level or on lean concrete backfill that extends to suitable shale as shown on the following figure.



Basement Floor Slab

Design parameters for floor slabs assume the requirements for Earthwork have been followed. Specific attention should be given to positive drainage away from the structure and positive drainage of the aggregate base beneath the floor slab. As noted previously, the shale exposed at subgrade level must be protected from saturation, disturbance, and weathering prior to construction of the slab.

Floor Slab Design Parameters

Item	Description
Floor Slab Support[1]	Subgrade prepared as recommended in Earthwork
Granular Leveling Course Layer Thickness [2]	4 inches (minimum)
Estimated Modulus of Subgrade Reaction [3]	100 pounds per square inch per inch (psi/in) for point loads

1. Floor slabs should be structurally independent of building footings or walls to reduce the possibility of floor slab cracking caused by differential movements between the slab and foundation.
2. Well graded crushed stone (e.g., MoDOT Type 5) or open-graded crushed stone (e.g., ASTM C33, Size No. 57 aggregate) can be used as the leveling course.
3. Modulus of subgrade reaction is an estimated value based upon our experience with the subgrade condition, the requirements noted in Earthwork, and the floor slab support as noted in this table. It is provided for point loads. For large area loads the modulus of subgrade reaction would be lower.

The use of a vapor retarder should be considered beneath concrete slabs covered with wood, tile, carpet, or other moisture sensitive or impervious coverings, when the project includes humidity-controlled areas, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.

Joints should be placed in slabs at regular intervals as recommended by ACI to help control the locations of cracks. Joints or any cracks that develop in the floor slab should be sealed with a waterproof, non-extruding compressible compound.

The Geotechnical Engineer should observe the condition of the floor slab subgrades immediately prior to placement of the floor slab support course, reinforcing steel, and concrete. Attention should be paid to high traffic areas that may have been disturbed by construction activities, and to areas where backfilled trenches are located.

Lateral Earth Pressures

Lateral Earth Pressure Design Parameters

Reinforced concrete walls with unbalanced backfill levels on opposite sides should be designed for earth pressures at least equal to values indicated in the following table. Earth pressures will be influenced by structural design of the walls, conditions of wall restraint, methods of construction, methods and degree of compaction, and the strength of the materials being restrained. Two wall restraint conditions are shown in the diagram below. Active earth pressure is commonly used for design of free-standing cantilever retaining walls where wall movement is acceptable. The "at-rest" condition assumes no wall movement and is commonly used for design of basement walls, elevator pit walls, loading dock walls, or other walls restrained at the top. The recommended design lateral earth pressures do not include a factor of safety. The drained parameters do not provide for possible hydrostatic pressure on the walls.

Lateral Earth Pressure Design Parameters

Earth Pressure Condition [1]	Coefficient for Backfill Type [2,3]	Surcharge Pressure [4] p_1 (psf)	Equivalent Fluid Unit Weight (pcf) [2,5]	
			Drained [5]	Undrained [5]
Active (Ka)	Granular - 0.3 Clay - 0.42	(0.31)S (0.42)S	40 50	80 85
At-Rest (Ko)	Granular - 0.47 Fine Grained - 0.58	(0.47)S (0.58)S	60 70	90 95

Lateral Earth Pressure Design Parameters

Earth Pressure Condition [1]	Coefficient for Backfill Type [2,3]	Surcharge Pressure [4] p_1 (psf)	Equivalent Fluid Unit Weight (pcf) [2,5]	
			Drained [5]	Undrained [5]
Passive (Kp)	Granular - 3.3	---	420	290
	Clay - 2.4	---	290	200

1. For active earth pressure, wall must rotate about base, with top lateral movements 0.002 H to 0.004 H, where H is wall height. For passive earth pressure, wall must move horizontally to mobilize resistance.
2. Uniform, horizontal backfill, with a maximum unit weight of 120 pcf for clay soils and 130 pcf for granular soils
3. Granular material backfill phi = 32 degrees (minimum); Clay soil phi = 24 degrees (minimum)
4. Uniform surcharge, where S is surcharge pressure
5. Loading from heavy compaction equipment is not included.
6. To achieve "Drained" conditions, follow guidelines in Subsurface Drainage for Below-Grade Walls below. "Undrained" conditions are recommended when drainage behind walls is not incorporated into the design.

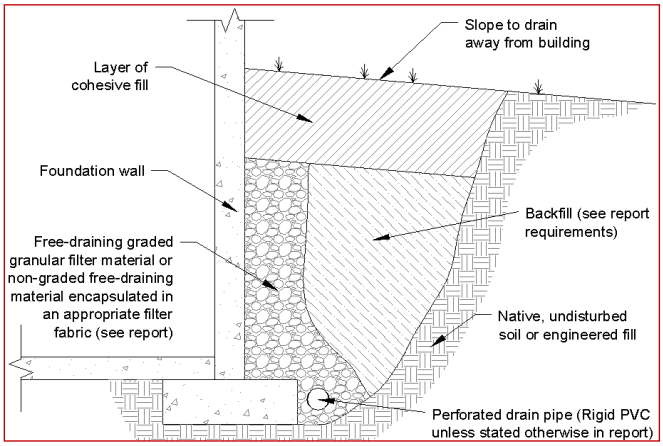
Backfill placed against structures should consist of granular soils or low plasticity cohesive soils. Shale should not be used as backfill on this project. For the granular values to be valid, the granular backfill must extend out and up from the base of the wall at an angle of at least 45 degrees from vertical for the active and at-rest cases, and at an angle of 60 degrees from vertical for the passive case. To calculate the resistance to sliding, a value of 0.35 should be used as the ultimate coefficient of friction where the footing bears on shale or lean concrete.

The lateral earth pressure recommendations given in this section are applicable to the design of rigid retaining walls subject to slight rotation, such as cantilever or gravity type concrete walls. These recommendations are not applicable to the design of modular block - geogrid reinforced backfill walls (also termed MSE walls). Recommendations covering these types of wall systems are beyond the scope of services for this assignment. However, we would be pleased to develop a proposal for evaluation and design of such wall systems upon request.

Subsurface Drainage for Below-Grade Walls

Below-grade walls should be waterproofed, and water stops should be placed at construction joints. To reduce the potential for hydrostatic loading on the below grade walls and to reduce the potential for seepage into below grade areas, a perforated rigid plastic drain line installed behind the base of walls and extends below adjacent grade is recommended. The invert of a drain line around a below-grade building area or exterior retaining wall should be placed near foundation bearing level. The drain line should be

sloped to provide positive gravity drainage to daylight or to a sump pit and pump. The drain line should be surrounded by clean, free-draining granular material having less than 5% passing the No. 200 sieve, such as No. 57 aggregate. The free-draining aggregate should be encapsulated in a filter fabric. The granular fill should extend to within 2 feet of final grade, where it should be capped with compacted cohesive fill to reduce infiltration of surface water into the drain system.



As an alternative to free-draining granular fill, a prefabricated drainage structure may be used. A prefabricated drainage structure is a plastic drainage core or mesh which is covered with filter fabric to prevent soil intrusion and is fastened to the wall prior to placing backfill.

Pavements

Pavement Subgrade Preparation

Pavement subgrades are expected to consist of on-site native clay soils or tested and approved existing fill composed of similar materials. The pavement subgrades should be proofrolled as recommended in Earthwork. If soft or otherwise unsuitable areas are observed, additional over-excavation and replacement will be needed.

Grading and paving are commonly performed by separate contractors and there is often a time lapse between the end of grading operations and the commencement of paving. Subgrades prepared early in the construction process may become disturbed by construction traffic. Non-uniform subgrades often result in poor pavement performance and local failures relatively soon after pavements are constructed. Depending on the paving equipment used by the contractor, measures may be required to improve subgrade strength to greater depths for support of heavily loaded concrete/asphalt trucks.

We recommend the moisture content and density of the subgrade be evaluated and the pavement subgrades be proofrolled (using a loaded tandem-axle dump truck with a minimum gross weight of 20 tons or similarly loaded rubber-tire equipment) within two days prior to commencement of actual paving operations. Areas not in compliance with the required ranges of moisture or density should be scarified, moisture conditioned, and compacted. Particular attention should be paid to high traffic areas that were rutted and disturbed earlier and to areas where backfilled trenches are located. Areas where unsuitable conditions are located should be repaired by removing and replacing the materials with properly compacted fills. The subgrade should be in its finished form at the time of the final review.

Pavement Section Thicknesses

Pavement thickness depends upon many factors including but not limited to:

- applied wheel/axle loads and number of repetitions
- subgrade and pavement material characteristics
- climate conditions
- site and pavement drainage

Specific information regarding anticipated vehicle types, axle loads, and traffic volumes was not provided at the time of this report. The "Personal Vehicle Parking Lots/Drives" pavement section considers 4-tire, 2-axle personal vehicle traffic only (cars, vans, pickups, and SUVs). The "Fire Truck Drives" pavement section considers personal vehicle traffic, fire truck traffic, and a maximum of ten delivery trucks/trash collection trucks per week. Our recommendations for ACC pavement over aggregate base, and portland cement concrete (PCC) pavement sections are outlined in the following table.

Opinions of Minimum Pavement Thickness

Pavement Type	Personal Vehicle Parking Lots/Drives	Fire Truck Drives
ACC over aggregate base	2 inches ACC surface 2 inches ACC base 6 inches aggregate base (MoDOT Type 5 or similar)	Not recommended
PCC	5 inches PCC 4 inches aggregate base (MoDOT Type 5 or similar)	8 inches PCC 4 inches aggregate base (MoDOT Type 5 or similar)

1. For trash container pads, we recommend a PCC pavement section be used consisting of 7 inches (minimum) of PCC over 4 inches (minimum) aggregate base (MoDOT Type 5 or similar) on a compacted soil subgrade. The trash

container pad should be large enough to support the container and the tipping axle of the collection truck.

PCC pavements will perform better than ACC in areas where short radius turning and braking are expected (i.e., entrance/exit aprons) due to better resistance to rutting and shoving. In addition, PCC pavement will perform better in areas subject to heavy static loads.

Construction traffic on the pavements was not considered in developing our opinions of minimum pavement thickness. If the pavements will be subject to construction equipment/vehicles, the pavement sections should be revised to consider the additional loading.

Pavements and subgrades will be subject to freeze-thaw cycles and seasonal fluctuations in moisture content. Pavement thickness design methods are intended to provide adequate thickness of structural materials over a particular subgrade such that wheel loads are reduced to a level that the subgrade can support. The subgrade support parameters for pavement thickness design do not account for shrink/swell movements of a subgrade constructed of expansive clay soils. Therefore, the pavement may be adequate from a structural standpoint, yet still experience cracking and deformation due to shrink/swell related movement of the subgrade.

The pavement sections provided above consider that the subgrade soils will not experience significant increases in moisture content. Paved areas should be sloped to provide rapid drainage of surface water and to drain water away from the pavement edges. Pavements should be designed so water does not accumulate on or adjacent to the pavement, since this could saturate and soften the subgrade soils and subsequently accelerate pavement deterioration.

Pavement Drainage

Pavements should be sloped to provide rapid drainage of surface water. Water allowed to pond on or adjacent to the pavements could saturate the subgrade and contribute to premature pavement deterioration.

We recommend that subdrains be installed to collect and remove water from the subbase and reduce the potential for accumulation of water resulting in softening of the soil subgrade. The spacing between drains should be 50 feet or less. The aggregate base should daylight to a reliable, frost-free outlet to allow for positive gravity drainage. Drainage of the pavement subgrade will be particularly important in areas where substantial quantities of water are anticipated, such as where vehicles will be washed.

Pavement Maintenance

The pavement sections represent minimum recommended thicknesses, and periodic maintenance and repairs should be anticipated. Preventive maintenance should be planned and provided for through an on-going pavement management program. Maintenance activities are intended to slow the rate of pavement deterioration and to preserve the pavement investment. Pavement care consists of both localized (e.g., crack sealing, joint sealing, and patching) and global maintenance (e.g., surface sealing). Additional engineering consultation is recommended to determine the type and extent of a cost-effective program. Even with periodic maintenance, some movements and related cracking may still occur, and repairs may be required.

General Comments

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Variations will occur between boring locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Support of pavements above existing fill is discussed in this report. Even with the construction observation/testing recommended in this report, the owner must accept the risk that unsuitable materials within or buried by the fill will not be discovered. This may result in larger than normal settlement and damage to pavements supported above existing fill, requiring additional maintenance. This risk cannot be eliminated without removing the existing fill from below the pavement areas, but it can be reduced by thorough observation and testing as discussed herein.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is

solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, cost estimating, excavation support, and dewatering requirements/design are the responsibility of others. Construction and site development have the potential to affect adjacent properties. Such impacts can include damages due to vibration, modification of groundwater/surface water flow during construction, foundation movement due to undermining or subsidence from excavation, as well as noise or air quality concerns. Evaluation of these items on nearby properties are commonly associated with contractor means and methods and are not addressed in this report. The owner and contractor should consider a preconstruction/precondition survey of surrounding development. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

Figures

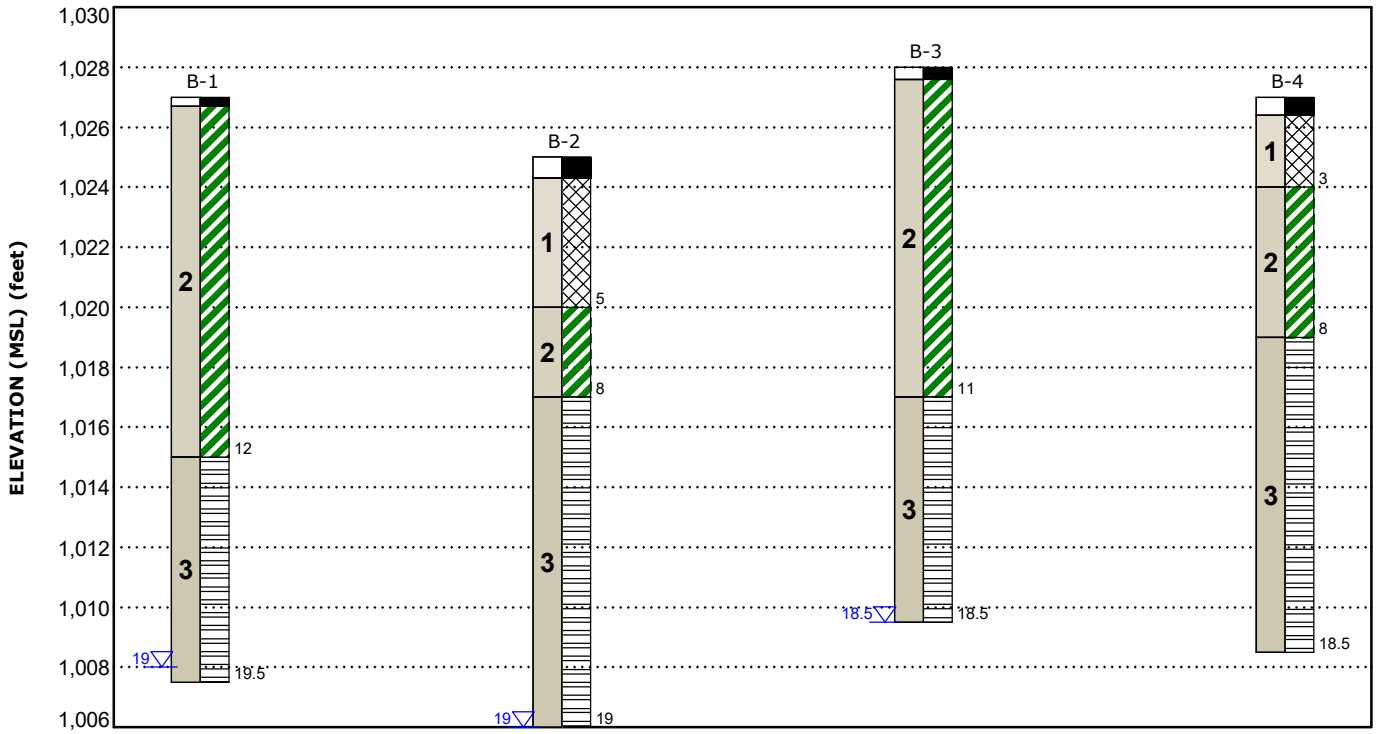
Contents:

GeoModel

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

GeoModel



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	**Existing Fill**	Fat clay with variable amounts of gravel
2	**Residual Clay**	Fat clay, medium stiff to very stiff
3	**Bedrock**	Highly to moderately weathered shale with sandstone seams

Legend	
Asphalt	Fat Clay
Shale	Fill

▽ First Water Observation

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time.
Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project.
Numbers adjacent to soil column indicate depth below ground surface.

Attachments

Exploration and Testing Procedures

Field Exploration

Number of Borings	Approximate Boring Depth (feet)	Location
4	18½ to 19½	Perimeter of existing building

Boring Layout and Elevations: Terracon personnel provided the boring layout using handheld GPS equipment (estimated horizontal precision of about ±10 feet) and referencing existing site features. Approximate ground surface elevations were estimated using Google Earth.

Subsurface Exploration Procedures: We advanced the borings with a track-mounted ATV-mounted rotary drill rig using continuous flight augers. Samples were obtained from the borings using thin-walled tube and split-barrel sampling procedures. In the thin-walled tube sampling procedure, a thin-walled, seamless steel tube with a sharp cutting edge was pushed hydraulically into the soil to obtain a relatively undisturbed sample. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon was driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring logs at the test depths. The borings were backfilled with auger cuttings after their completion. The upper few inches of borehole penetrations through pavements were surface patched with cold-mix asphalt.

We also observed the boreholes while drilling and at the completion of drilling for the presence of groundwater. The groundwater levels are shown on the attached boring logs.

Our exploration team prepared field boring logs to record the sampling depths, penetration distances, other sampling information, visual classifications of the materials observed during drilling, and our interpretation of the subsurface conditions between samples. The samples were placed in appropriate containers and taken to our laboratory for testing and classification. The final boring logs provided with this report include modifications based on the results of the laboratory tests and observations of the recovered samples.

Laboratory Testing

The project engineer reviewed the field data and assigned laboratory tests. The laboratory testing program included the following tests on selected samples:

- Moisture Content
- Dry Unit Weight
- Unconfined Compression
- Atterberg Limits

The laboratory testing program included examination of soil samples by an engineer. Based on the results of our field and laboratory programs, we described and classified the soil samples in general accordance with the Unified Soil Classification System.

Rock classification was conducted using locally accepted practices for engineering purposes; core samples and petrographic analysis may indicate other rock types. The rock classifications on the boring logs were determined using the attached Rock Classification Notes.

Site Location and Exploration Plans

Contents:

Site Location Plan
Exploration Plan

Note: All attachments are one page unless noted above.

Site Location

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES MAP PROVIDED BY MICROSOFT BING MAPS

Exploration Plan

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES MAP PROVIDED BY MICROSOFT BING MAPS

Exploration and Laboratory Results

Contents:

Boring Logs (B-1 through B-4)
Atterberg Limits
Unconfined Compressive Strength (4 pages)

Note: All attachments are one page unless noted above.

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Boring Log No. B-1

Location: See Exploration Plan

Latitude: 38.9137° Longitude: -94.3768°

Depth (Ft.) Elevation: 1027 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Strength Test: Test Type	Strength Test: Compressive Strength (psf)	Strength Test: Strain (%)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits: LL-PL-PI
		0.3 **3" ASPHALT** 1026.7										
2		**FAT CLAY (CH)**, brown and gray, medium stiff to stiff										
					9	3-2-5 N=7				27.2		
					10		UC	2030	8	26.0	94	52-23-29
		5										
					7	3-4-4 N=8				26.7		
					16	3-3-5 N=8				24.7		
		10										
3		12.0 1015 **SHALE**, with sandstone seams, brown and gray, highly to moderately weathered										
					9	29-50/3"				20.1		
		15										
		19.5 1007.5	▽		10	30-50/4"				14.6		
		Boring Terminated at 19.5 Feet										

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevation Reference: Elevation estimated using Google Earth

Water Level Observations
▽ 19 feet while drilling

Drill Rig
CME 55

Hammer Type
Automatic

Driller
LN

Logged by
MR

Boring Started
02-21-2024

Boring Completed
02-21-2024

Notes

Advancement Method
Solid-stem auger

Abandonment Method
Boring backfilled with Auger Cuttings and/or Bentonite Surface Capped with Asphalt

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Boring Log No. B-2

Location: See Exploration Plan

Latitude: 38.9139° Longitude: -94.3765°

Depth (Ft.) Elevation: 1025 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Strength Test: Test Type	Strength Test: Compressive Strength (psf)	Strength Test: Strain (%)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits: LL-PL-PI
		0.7 **8" ASPHALT** 1024.3										
1		**FILL - FAT CLAY**, trace gravel, brown and dark gray			5	4-4-5 N=9				17.6		
					20		UC	1691	5.8	30.7	90	
		5.0 1020										
2		**FAT CLAY (CH)**, brown and gray, medium stiff to stiff			9	2-2-3 N=5				28.3		
		8.0 1017										
3		**SHALE**, with sandstone seams, gray and brown, highly to moderately weathered			12	3-2-17 N=19				23.8		
					7	45-50/2"				17.1		
		19.0 1006	▽		3	50/3"				14.0		
		Boring Terminated at 19 Feet										

5
10
15

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevation Reference: Elevation estimated using Google Earth

Water Level Observations
▽ 19 feet while drilling

Drill Rig
CME 55

Hammer Type
Automatic

Driller
LN

Logged by
MR

Boring Started
02-21-2024

Boring Completed
02-21-2024

Notes

Advancement Method
Solid-stem auger

Abandonment Method
Boring backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Boring Log No. B-3

Location: See Exploration Plan

Latitude: 38.9134° Longitude: -94.3766°

Model Layer	Depth (Ft.)	Elevation: 1028 (Ft.) +/-	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Strength Test: Test Type	Strength Test: Compressive Strength (psf)	Strength Test: Strain (%)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits: LL-PL-PI
	0.4	**4" ASPHALT** 1027.6										
2		**FAT CLAY (CH)**, brown and gray, medium stiff to stiff			9	2-2-4 N=6				27.0		
					8		UC	3862	14.8	23.9	101	
	5				16	3-3-4 N=7				24.4		
					16	3-3-4 N=7				24.9		
	10											
3	11.0	1017										
		SHALE, with sandstone seams, brown and gray, highly to moderately weathered			3	50/3"				17.0		
	15											
	18.5	1009.5	▽		2	50/2"				18.6		
		Boring Terminated at 18.5 Feet										

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevation Reference: Elevation estimated using Google Earth

Water Level Observations
▽ 18.5 feet while drilling

Drill Rig
CME 55

Hammer Type
Automatic

Driller
LN

Logged by
MR

Boring Started
02-21-2024

Boring Completed
02-21-2024

Notes

Advancement Method
Solid-stem auger

Abandonment Method
Boring backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Boring Log No. B-4

Location: See Exploration Plan

Latitude: 38.9135° Longitude: -94.3763°

Model Layer	Depth (Ft.)	Elevation: 1027 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Strength Test: Test Type	Strength Test: Compressive Strength (psf)	Strength Test: Strain (%)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits: LL-PL-PI
	0.6	**7" ASPHALT** 1026.4											
1	3.0	**FILL - FAT CLAY**, trace gravel, brown and dark gray 1024				11	3-2-5 N=7				25.0		
2	8.0	**FAT CLAY (CH)**, brown and gray, stiff to very stiff 1019	5			13		UC	4699	15	18.5	106	66-22-44
						16	3-3-7 N=10				25.8		
3	18.5	**SHALE**, with sandstone seams, brown and gray, highly to moderately weathered 1008.5	10			9	7-11-14 N=25				20.7		
			15			14	41-50/4"				17.9		
						2	50/2"				16.2		
		Boring Terminated at 18.5 Feet											

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevation Reference: Elevation estimated using Google Earth

Water Level Observations
Groundwater not encountered

Drill Rig
CME 55

Hammer Type
Automatic

Driller
LN

Logged by
MR

Boring Started
02-21-2024

Boring Completed
02-21-2024

Notes

Advancement Method
Solid-stem auger

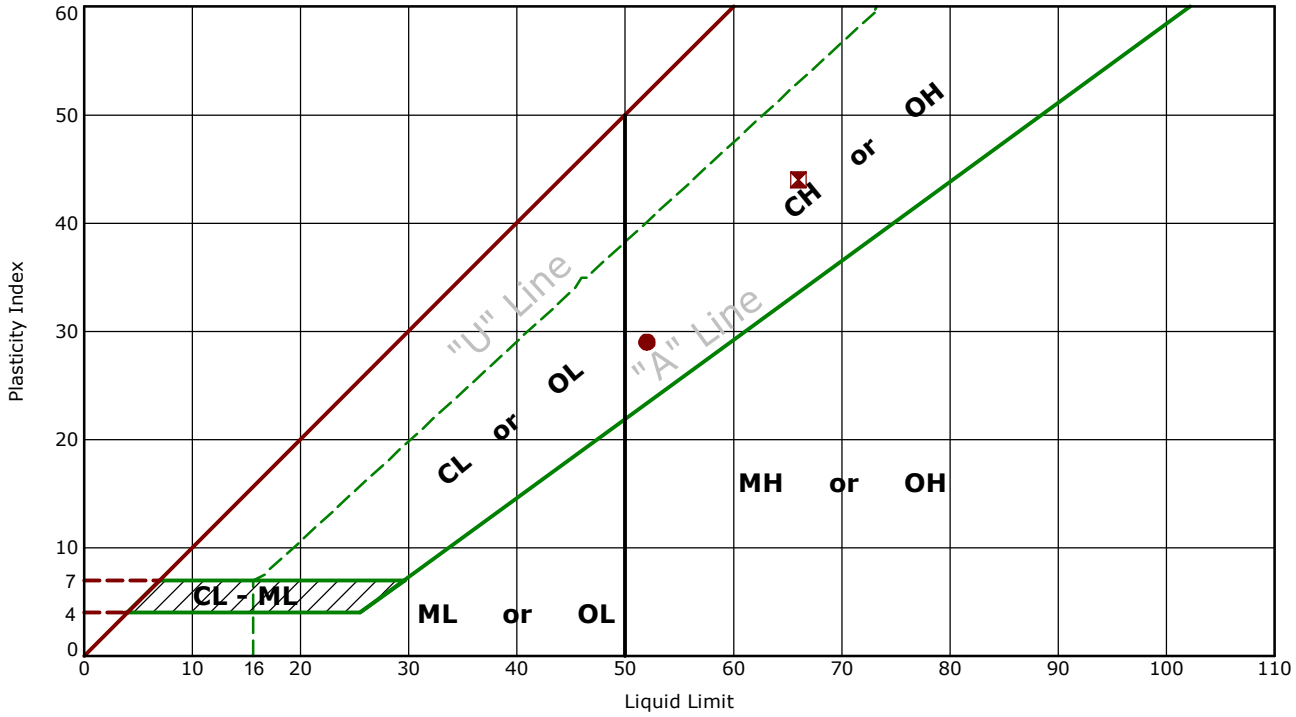
Abandonment Method
Boring backfilled with Auger Cuttings and/or Bentonite
Surface Capped with Asphalt

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Atterberg Limit Results

ASTM D4318



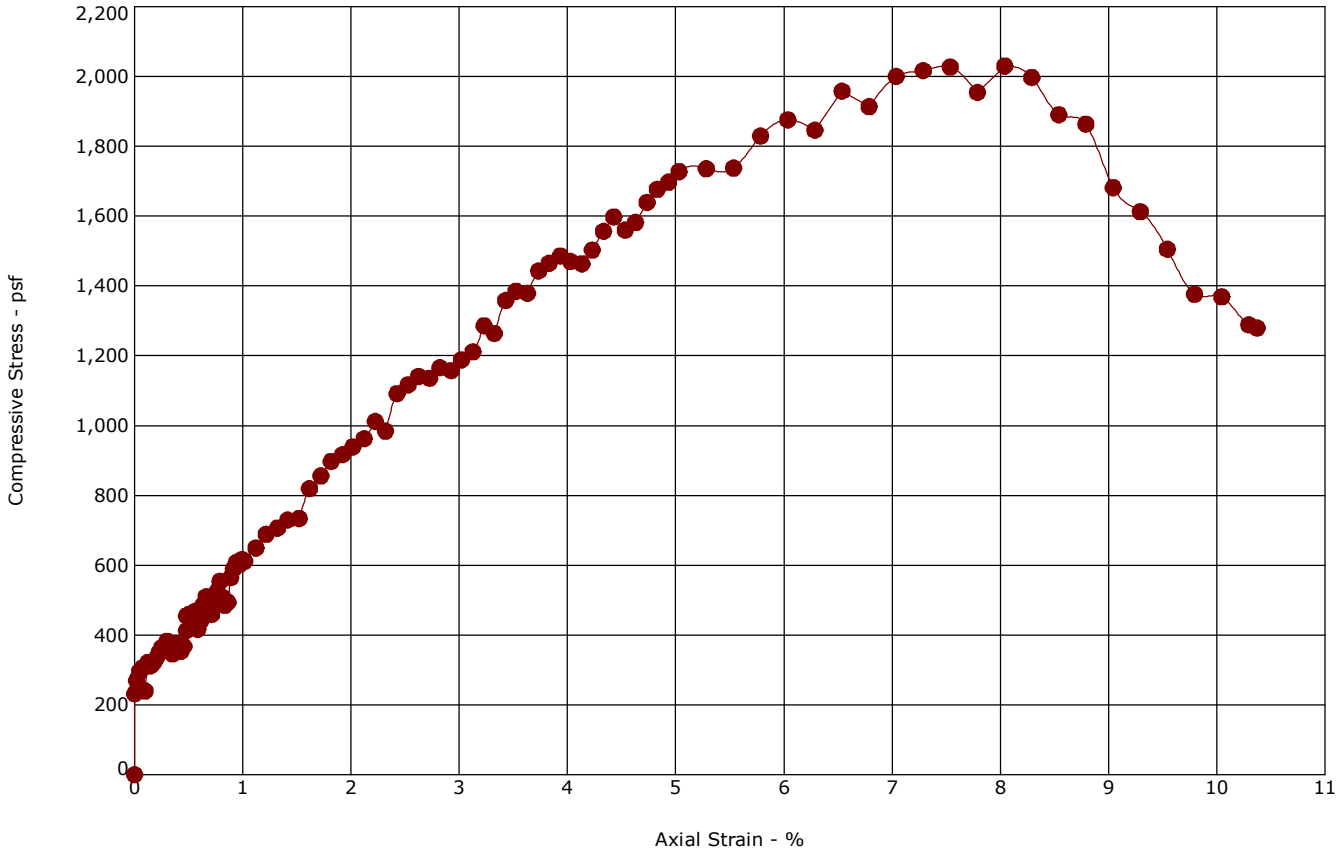
	Boring ID	Depth (Ft)	LL	PL	PI	Fines	USCS	Description
●	B-1	3 - 5	52	23	29			
⊠	B-4	3 - 5	66	22	44			

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Unconfined Compression Test

ASTM D2166



Boring ID	Depth (Ft)	Sample type	LL	PL	PI	Fines (%)	Description
B-1	3 - 5	Shelby Tube	52	23	29		

Specimen Failure Mode

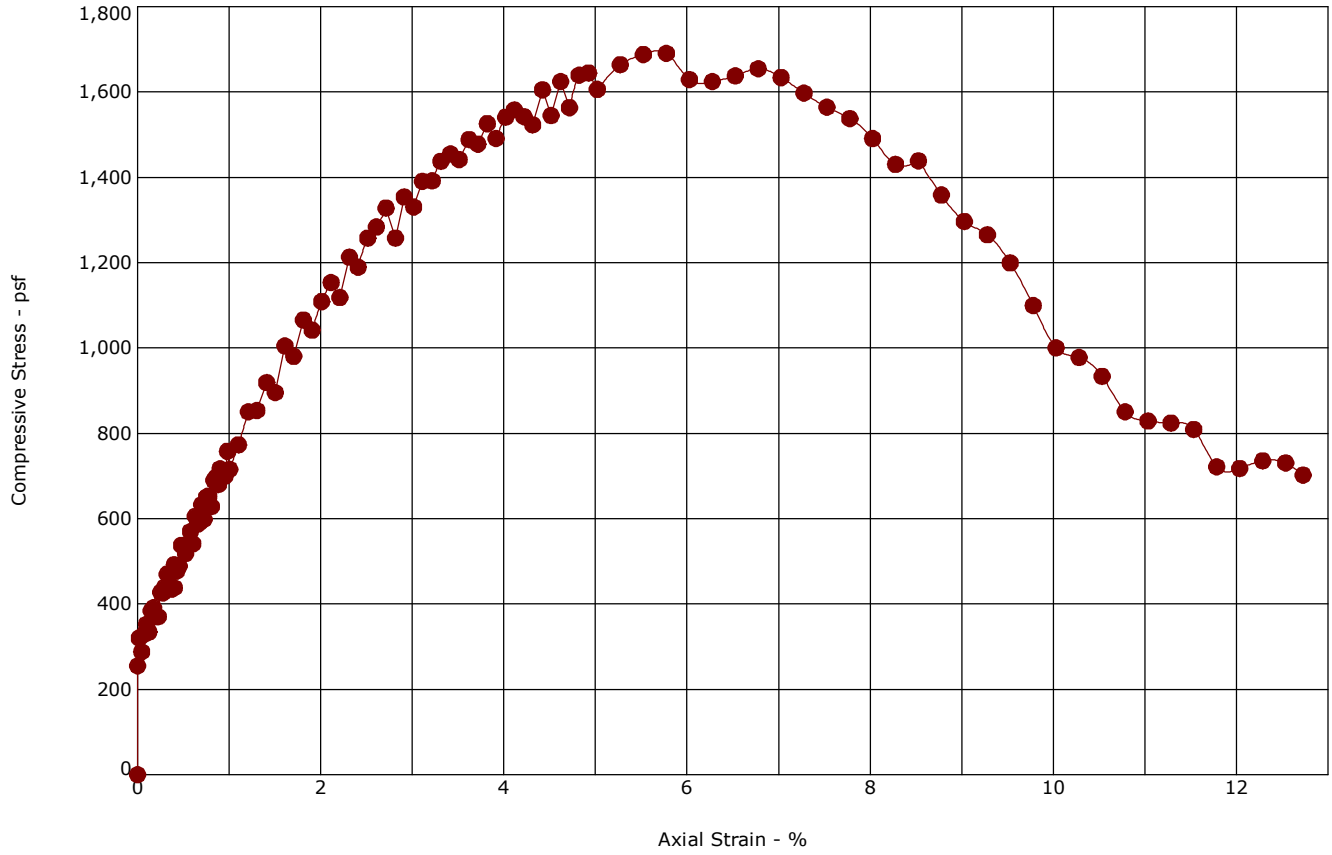
Specimen Test Data	
Moisture Content (%):	26.0
Dry Density (pcf):	94
Diameter (in.):	2.72
Height (in.):	5.81
Height / Diameter Ratio:	2.13
Calculated Saturation (%):	
Calculated Void Ratio:	
Assumed Specific Gravity:	
Failure Strain (%):	8.04
Unconfined Compressive Strength (psf):	2030
Undrained Shear Strength (psf):	1015
Strain Rate (in/min):	0.0581
Remarks:	

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Unconfined Compression Test

ASTM D2166



Boring ID	Depth (Ft)	Sample type	LL	PL	PI	Fines (%)	Description
B-2	3 - 5	Shelby Tube					

Specimen Failure Mode

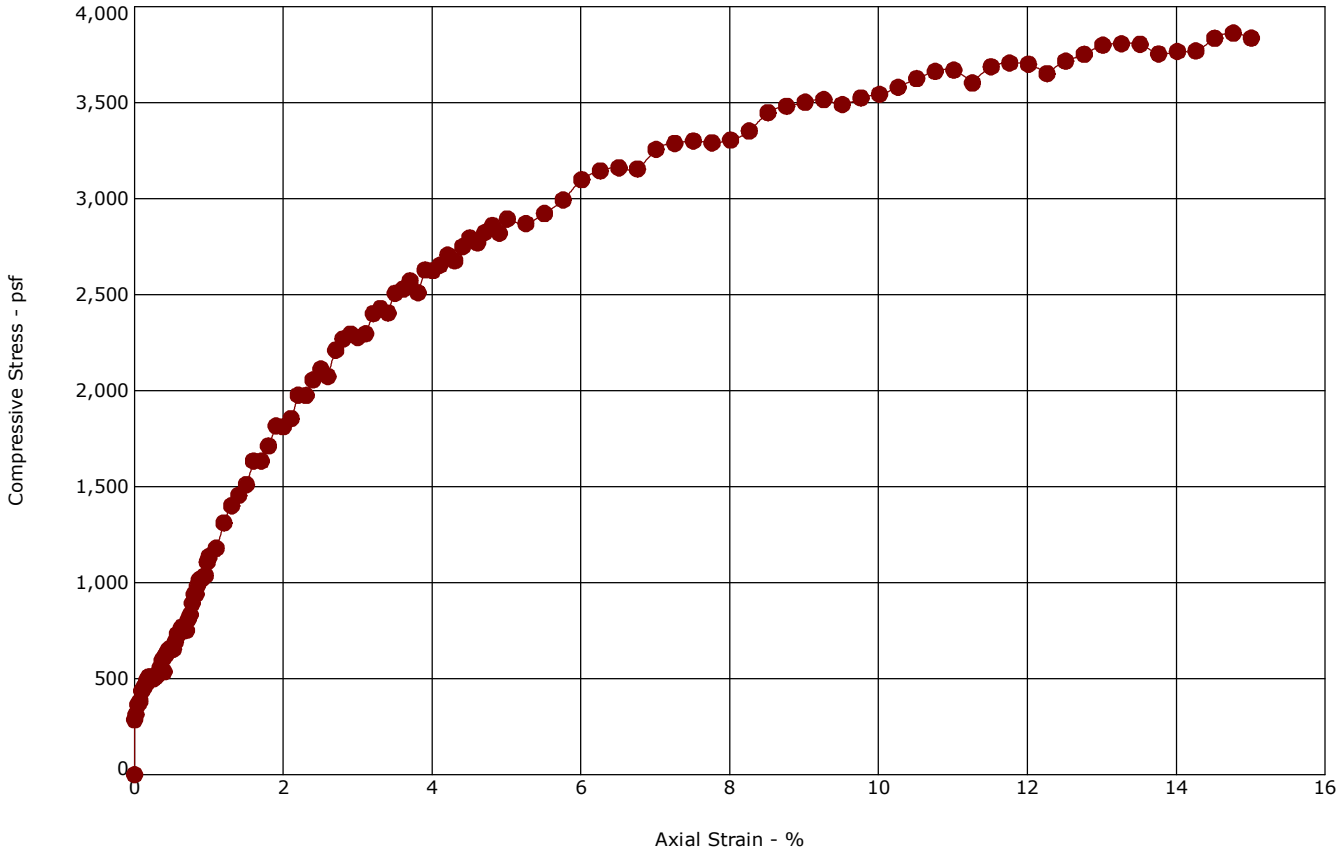
Specimen Test Data	
Moisture Content (%):	30.7
Dry Density (pcf):	90
Diameter (in.):	2.85
Height (in.):	5.69
Height / Diameter Ratio:	1.99
Calculated Saturation (%):	
Calculated Void Ratio:	
Assumed Specific Gravity:	
Failure Strain (%):	5.77
Unconfined Compressive Strength (psf):	1691
Undrained Shear Strength (psf):	845
Strain Rate (in/min):	0.0569
Remarks:	

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Unconfined Compression Test

ASTM D2166



Boring ID	Depth (Ft)	Sample type	LL	PL	PI	Fines (%)	Description
B-3	3 - 5	Shelby Tube					

Specimen Failure Mode

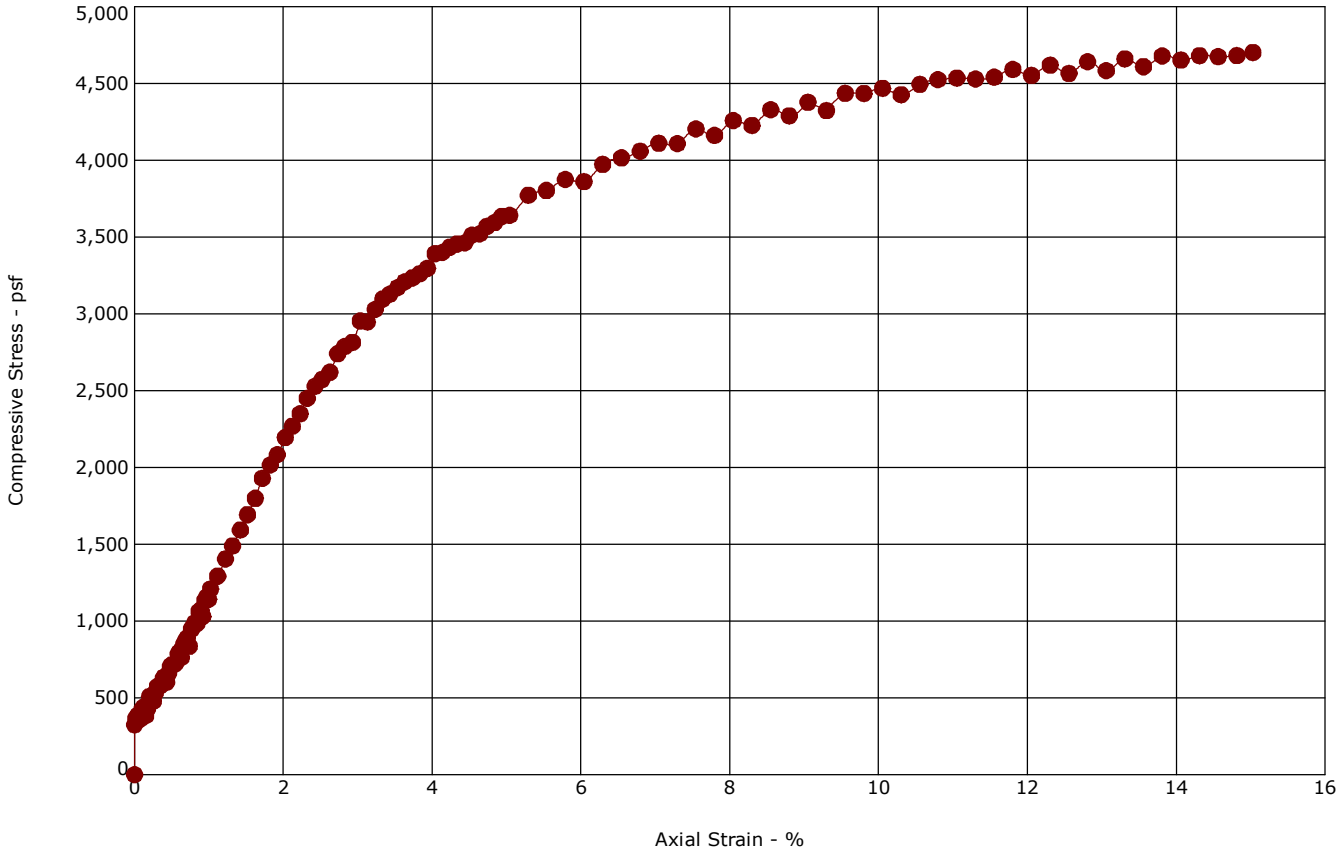
Specimen Test Data	
Moisture Content (%):	23.9
Dry Density (pcf):	101
Diameter (in.):	2.75
Height (in.):	5.78
Height / Diameter Ratio:	2.10
Calculated Saturation (%):	
Calculated Void Ratio:	
Assumed Specific Gravity:	
Failure Strain (%):	14.77
Unconfined Compressive Strength (psf):	3862
Undrained Shear Strength (psf):	1931
Strain Rate (in/min):	0.0577
Remarks:	

Lee's Summit Fire Station No. 1
207 SE Douglas Street | Lee's Summit, Missouri
Terracon Project No. 02235318

Terracon
15620 W 113th St
Lenexa, KS

Unconfined Compression Test

ASTM D2166



Boring ID	Depth (Ft)	Sample type	LL	PL	PI	Fines (%)	Description
B-4	3 - 5	Shelby Tube	66	22	44		

Specimen Failure Mode

Specimen Test Data	
Moisture Content (%):	18.5
Dry Density (pcf):	106
Diameter (in.):	2.61
Height (in.):	4.70
Height / Diameter Ratio:	1.80
Calculated Saturation (%):	
Calculated Void Ratio:	
Assumed Specific Gravity:	
Failure Strain (%):	15.00
Unconfined Compressive Strength (psf):	4699
Undrained Shear Strength (psf):	2349
Strain Rate (in/min):	0.0471
Remarks:	

Supporting Information

Contents:

General Notes
Unified Soil Classification System
Rock Classification Notes

Note: All attachments are one page unless noted above.

Terracon
15620 W 113th St
Lenexa, KS

General Notes

Sampling

Shelby Tube

Split Spoon

Water Level

Water Initially Encountered

Water Level After a Specified Period of Time

Water Level After a Specified Period of Time

Cave In Encountered

Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.

Field Tests

N	Standard Penetration Test Resistance (Blows/Ft.)
(HP)	Hand Penetrometer
(T)	Torvane
(DCP)	Dynamic Cone Penetrometer
UC	Unconfined Compressive Strength
(PID)	Photo-Ionization Detector
(OVA)	Organic Vapor Analyzer

Descriptive Soil Classification

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

Location And Elevation Notes

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

Strength Terms

Relative Density of Coarse-Grained Soils
(More than 50% retained on No. 200 sieve.)
Density determined by Standard Penetration Resistance

Relative Density	Standard Penetration or N-Value (Blows/Ft.)
Very Loose	0 - 3
Loose	4 - 9
Medium Dense	10 - 29
Dense	30 - 50
Very Dense	> 50

Consistency of Fine-Grained Soils
(50% or more passing the No. 200 sieve.)
Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance

Consistency	Unconfined Compressive Strength Qu (psf)	Standard Penetration or N-Value (Blows/Ft.)
Very Soft	less than 500	0 - 1
Soft	500 to 1,000	2 - 4
Medium Stiff	1,000 to 2,000	4 - 8
Stiff	2,000 to 4,000	8 - 15
Very Stiff	4,000 to 8,000	15 - 30
Hard	> 8,000	> 30

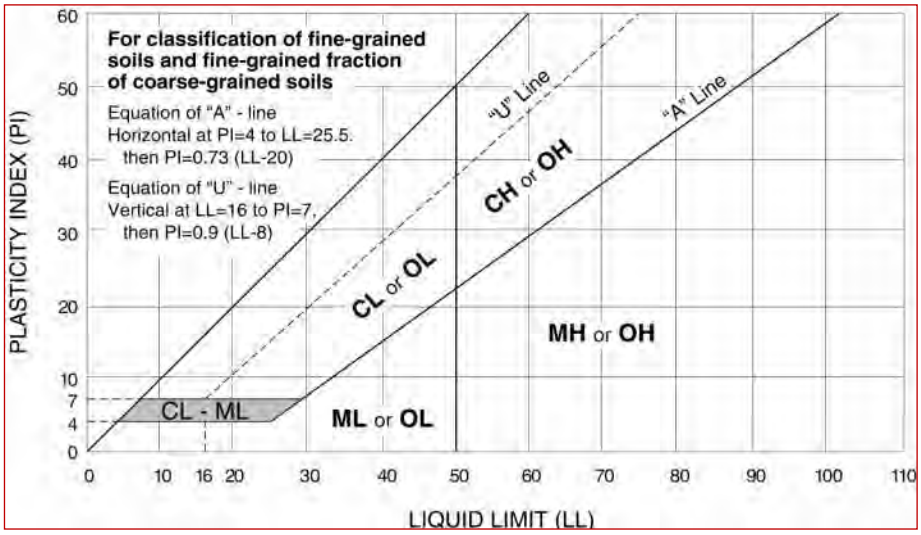
Relevance of Exploration and Laboratory Test Results

Exploration/field results and/or laboratory test data contained within this document are intended for application to the project as described in this document. Use of such exploration/field results and/or laboratory test data should not be used independently of this document.

Unified Soil Classification System

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A]				Soil Classification	
				Group Symbol	Group Name [B]
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	Gravels: More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels: Less than 5% fines [C]	Cu≥4 and 1≤Cc≤3 [E]	GW	Well-graded gravel [F]
			Cu<4 and/or [Cc<1 or Cc>3.0] [E]	GP	Poorly graded gravel [F]
		Gravels with Fines: More than 12% fines [C]	Fines classify as ML or MH	GM	Silty gravel [F, G, H]
			Fines classify as CL or CH	GC	Clayey gravel [F, G, H]
	Sands: 50% or more of coarse fraction passes No. 4 sieve	Clean Sands: Less than 5% fines [D]	Cu≥6 and 1≤Cc≤3 [E]	SW	Well-graded sand [I]
			Cu<6 and/or [Cc<1 or Cc>3.0] [E]	SP	Poorly graded sand [I]
		Sands with Fines: More than 12% fines [D]	Fines classify as ML or MH	SM	Silty sand [G, H, I]
			Fines classify as CL or CH	SC	Clayey sand [G, H, I]
Fine-Grained Soils: 50% or more passes the No. 200 sieve	Silts and Clays: Liquid limit less than 50	Inorganic:	PI > 7 and plots above "A" line [J]	CL	Lean clay [K, L, M]
			PI < 4 or plots below "A" line [J]	ML	Silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OL	Organic clay [K, L, M, N]
					Organic silt [K, L, M, O]
	Silts and Clays: Liquid limit 50 or more	Inorganic:	PI plots on or above "A" line	CH	Fat clay [K, L, M]
			PI plots below "A" line	MH	Elastic silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OH	Organic clay [K, L, M, P]
					Organic silt [K, L, M, Q]
Highly organic soils:	Primarily organic matter, dark in color, and organic odor			PT	Peat

[A] Based on the material passing the 3-inch (75-mm) sieve.
[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.
[E] $Cu = D_{60}/D_{10}$ $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
[F] If soil contains ≥ 15% sand, add "with sand" to group name.
[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
[H] If fines are organic, add "with organic fines" to group name.
[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.
[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.
[N] PI ≥ 4 and plots on or above "A" line.
[O] PI < 4 or plots below "A" line.
[P] PI plots on or above "A" line.
[Q] PI plots below "A" line.



Rock Classification Notes

WEATHERING	
Term	**Description**
Fresh	Mineral crystals appear bright; show no discoloration. Features show little or no staining on surfaces. Discoloration does not extend into intact rock.
Slightly weathered	Rock generally fresh except along fractures. Some fractures stained and discoloration may extend <0.5 inches into rock.
Moderately weathered	Significant portions of rock are dull and discolored. Rock may be significantly weaker than in fresh state near fractures. Soil zones of limited extent may occur along some fractures.
Highly weathered	Rock dull and discolored throughout. Majority of rock mass is significantly weaker and has decomposed and/or disintegrated; isolated zones of stronger rock and/or soil may occur throughout.
Completely weathered	All rock material is decomposed and/or disintegrated to soil. The rock mass or fabric is still evident and largely intact. Isolated zones of stronger rock may occur locally.

STRENGTH OR HARDNESS		
Description	**Field Identification**	**Uniaxial Compressive Strength, psi**
Extremely strong	Can only be chipped with geological hammer. Rock rings on hammer blows. Cannot be scratched with a sharp pick. Hand specimens require several hard hammer blows to break.	>36,000
Very strong	Several blows of a geological hammer to fracture. Cannot be scratched with a 20d common steel nail. Can be scratched with a geologist's pick only with difficulty.	15,000-36,000
Strong	More than one blow of a geological hammer needed to fracture. Can be scratched with a 20d nail or geologist's pick. Gouges or grooves to ¼ inch deep can be excavated by a hard blow of a geologist's pick. Hand specimens can be detached by a moderate blow.	7,500-15,000
Medium strong	One blow of geological hammer needed to fracture. Can be distinctly scratched with 20d nail. Can be grooved or gouged 1/16 in. deep by firm pressure with a geologist's pick point. Can be fractured with single firm blow of geological hammer. Can be excavated in small chips (about 1-in. maximum size) by hard blows of the point of a geologist's pick;	3,500-7,500
Weak	Shallow indent by firm blow with geological hammer point. Can be gouged or grooved readily with geologist's pick point. Can be excavated in pieces several inches in size by moderate blows of a pick point. Small thin pieces can be broken by finger pressure.	700-3,500
Very weak	Crumbles under firm blow with geological hammer point. Can be excavated readily with the point of a geologist's pick. Pieces 1-in. or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.	150-700

DISCONTINUITY DESCRIPTION			
Fracture Spacing (Joints, Faults, Other Fractures)		Bedding Spacing (May Include Foliation or Banding)	
Description	**Spacing**	**Description**	**Spacing**
Intensely fractured	< 2.5 inches	Laminated	< ½-inch
Highly fractured	2.5 – 8 inches	Very thin	½ – 2 inches
Moderately fractured	8 inches to 2 feet	Thin	2 inches – 1 foot
Slightly fractured	2 to 6.5 feet	Medium	1 – 3 feet
Very slightly fractured	> 6.5 feet	Thick	3 – 10 feet
		Massive	> 10 feet

ROCK QUALITY DESIGNATION (RQD) [1]	
Description	**RQD Value (%)**
Very Poor	0 - 25
Poor	25 – 50
Fair	50 – 75
Good	75 – 90
Excellent	90 - 100

1. The combined length of all sound and intact core segments equal to or greater than 4 inches in length, expressed as a percentage of the total core run length.

BOUNDARY AND TOPOGRAPHIC SURVEY
LEE'S SUMMIT FIRE STATION

LEGAL DESCRIPTION PER TITLE COMMITMENT

The South half of Lot 7, Block 17, WILLIAM B. HOWARD'S FIRST ADDITION TO STROTHER, ALSO CALLED HOWARD'S FIRST ADDITION TO LEE'S SUMMIT, a subdivision in Lee's Summit, Jackson County, Missouri, according to the recorded plat thereof.
AND
Lots 8 and 9, Block 17, WILLIAM B. HOWARD'S FIRST ADDITION TO STROTHER, ALSO CALLED HOWARD'S FIRST ADDITION TO LEE'S SUMMIT, a subdivision in Lee's Summit, Jackson County, Missouri, according to the recorded plat thereof.

TITLE COMMITMENT NOTES

5. Terms and provisions of Downtown Center Urban Renewal Plan MO. R-47 as set forth in instrument recorded 03/14/1968 as Document No. I-00578 in Book I-29 at Page 1361. [THE SURVEYED PREMISES IS SUBJECT TO THE TERMS AND PROVISIONS AS SET FORTH IN SAID DOCUMENT.]

6. Terms and provisions of Agreement as set forth in instrument recorded 08/27/1973 as Document No. I-162292 in Book I-464 at Page 328. [THE SURVEYED PREMISES IS SUBJECT TO THE TERMS AND PROVISIONS AS SET FORTH IN SAID DOCUMENT.]

7. Terms and provisions of Ordinance No. 2349 Vacating a North-South alley as set forth in instrument recorded 08/02/1982 as Document No. I-493010 in Book I-1156 at Page 591.[AN ORDINANCE TO VACATE THE ALLEY. RETAINING THE 20' WIDE UTILITY EASEMENT.]

8. Terms and provisions of Memorandum of Real Property and Monopole Site Lease as set forth in instrument recorded 12/04/1996 as Document No. I-0075652 in Book I-2932 at Page 2224, as amended by the instrument recorded 02/03/2016 as Document No. 2016E0009764. [AS SHOWN HEREON.]

9. Tenancy rights, if any, either month to month or by virtue of written leases, of parties now in possession of any part of the premises described herein. [NOT A SURVEY RELATED ITEM.]

10. Effect, if any, of Pending Suit filed 11/14/2022 as Case No. 2216-CV26191 in the Circuit Court of Jackson County, Missouri, styled Jessica Huffman, Plaintiff vs. City of Lee's Summit, Missouri, Defendant. [NOT A SURVEY RELATED ITEM.]

11. Effect, if any, of Pending Suit filed 02/20/2023 as Case No. 2316-CV04861 in the Circuit Court of Jackson County, Missouri, styled Eric Lee Gordon, Plaintiff vs. City of Lee's Summit, ET AL, Defendant. [NOT A SURVEY RELATED ITEM.]

12. Effect, if any, of Pending Suit filed 01/17/2024 as Case No. 2416-CV01305 in the Circuit Court of Jackson County, Missouri, styled Anny Eads, Plaintiff vs. City of Lee's Summit, Missouri, Defendant. [NOT A SURVEY RELATED ITEM.]

SURVEY NOTES

1. AS OF FEBRUARY 5, 2024 WE HAVE MADE NO INVESTIGATION FOR, OR LOCATIONS OF, POSSIBLE USABLE SUBSURFACE AREAS OF PRIVATE LAND OR PUBLIC WAYS, INCLUDING, BUT NOT LIMITED TO, UTILITY VAULTS OF ANY NATURE, UTILITY OR PEDESTRIAN TUNNELS, UNDER WALK AREA WAYS, UNDER ALLEY AREA WAYS, FUEL STORAGE BINS OR TANKS, ELEVATOR PITS, AND ALL OR ANY COMBINATION OF THE ABOVE, EXCEPT AS SHOWN, NOTED AND DESCRIBED HEREON.

2. INFORMATION AS SHOWN FOR UNDERGROUND UTILITIES HAS BEEN COMPILED FROM THE RECORDS OF VARIOUS UTILITY COMPANIES CONCERNED, AND AS MARKED IN THE FIELD BY THE MISSOURI ONE CALL SYSTEM, 1 (800) 344-7483. WHEN PRECISE LOCATIONS OF UNDERGROUND UTILITIES ARE NEEDED PRIOR TO EXCAVATION OR CONNECTIONS, THE VARIOUS UTILITY COMPANIES CONCERNED ARE TO FURNISH A CREW TO POINT OUT THE LOCATIONS AT THE JOB SITE.

3. INFORMATION SHOWN ON THIS SURVEY WAS TAKEN FROM COFFELT LAND TITLE, INC. TITLE NO. 24068513, EFFECTIVE DATE, JANUARY 25, 2024..

4. BASIS OF BEARINGS: MISSOURI STATE PLANE, WEST ZONE.

5. CLASS OF SURVEY: URBAN

6. A 10 FOOT GAP EXISTS BETWEEN THE WEST LINE OF LEE'S SUMMITS CITY HALL, LOT 1 AND THE EAST LINE OF THE SURVEYED PREMISE. A 20 FOOT WIDE ALLEY WAS VACATED BY DOCUMENT NUMBER I493010, BK 1156, PG 591. RECORDED 8/2/1982. SAID DOCUMENT DOES NOT DESCRIBE HOW THE ALLEY WAS TO REVERT BACK TO ADJACENT OWNERS. SEE SCHEDULE B-II EXCEPTION NO. 7.

PROJECT CONTROL POINTS TABLE				
CP#	NORTHING	EASTING	ELEV.	DESCRIPTION
100	1000416.87'	2824242.64'	1022.28'	/ WSW TOP FLANGE BOLT YELLOW FIRE HYDRANT
101	1000174.21'	2824108.09'	1027.88'	/ CTR MH LID DOUGLAS ST
200	1000235.07'	2823954.56'	1029.12'	/ 100D POLE BARN NAIL
201	1000547.59'	2824011.44'	1026.24'	/ 0.5IN IB W BLUE MEC C.P CAP
202	1000385.00'	2824286.79'	1019.02'	/ CUT PLUS
203	1000168.28'	2824073.90'	1028.63'	/ CUT PLUS

CAF=0.99989439 (CP#200)

I HEREBY CERTIFY THAT THIS SURVEY IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY ME AND BY THOSE UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF THIS SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH THE CURRENT MISSOURI STANDARDS FOR PROPERTY BOUNDARY SURVEYS AS PUBLISHED BY THE MISSOURI BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS AND PROFESSIONAL LANDSCAPE ARCHITECTS AND THAT IT MEETS OR EXCEEDS THE ACCURACY STANDARDS FOR AN "URBAN" TYPE PROPERTY BOUNDARY SURVEY AS OF THE DATE OF THIS SURVEY.

STEVEN R. WHITAKER, MO. PLS NO. 2005019220
MCCLURE ENGINEERING COMPANY CORPORATE CERTIFICATE/LICENSE NO. 201200935
SWHITAKER@MCCLUREVISION.COM

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP CALL BEFORE YOU DIG!

UTILITY WARNING

THE UTILITIES DEPICTED ON THIS DOCUMENT HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

LEE'S SUMMIT
FIRE STATION

ENGINEER P.KULLBERG | DRAWN BY J.BURNETTE
SURVEYOR S.WHITAKER | CREW CHIEF CRAFT/MADRID
SHEET NO. 01/01

REVISIONS
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LEE'S SUMMIT, JACKSON CO. MISSOURI
SEC. 6-T47N-R31W
2023001109-000
FEBRUARY 6, 2024

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Drawings Path: K:\2023\2023109\CAD\Survey\Survey\2023109_ESDS.dwg, ESDS BASE, 1/1/49 AM, PLOTTED BY: Brady Lange

INFORMATIONAL TITLE REPORT

Issued by

Coffelt Land Title, Inc
401 S. Lexington Street, P.O. Box 208, Harrisonville, MO 64701
(816)380-3441

Title Officer:	Missy Miller	Title No.:	24068513
		Revision No.:	
		Customer File No.:	

1. Effective Date: January 25, 2024 at 8:00 a.m.

   Property Address: 207 SE Douglas St, Lees Summit, MO 64063

2. **INFORMATIONAL REPORT**
   This report is not a guarantee or warranty of title, nor is this a commitment to provide, nor does it provide title insurance. Liability hereunder is expressly limited to the consideration paid heretobefore.

3. The estate or interest in the land described or referred to in this report is:

   Fee Simple.

4. Title to the Fee Simple estate or interest in the land is at the Effective Date vested in:

   The City of Lee's Summit, Missouri, a municipal corporation

5. The Land is described as follows:

   The South half of Lot 7, Block 17, WILLIAM B. HOWARD'S FIRST ADDITION TO STROTHER, ALSO CALLED HOWARD'S FIRST ADDITION TO LEE'S SUMMIT, a subdivision in Lee's Summit, Jackson County, Missouri, according to the recorded plat thereof.

   AND

   Lots 8 and 9, Block 17, WILLIAM B. HOWARD'S FIRST ADDITION TO STROTHER, ALSO CALLED HOWARD'S FIRST ADDITION TO LEE'S SUMMIT, a subdivision in Lee's Summit, Jackson County, Missouri, according to the recorded plat thereof.

INFORMATIONAL TITLE REPORT

Issued by

Coffelt Land Title, Inc
401 S. Lexington Street, P.O. Box 208, Harrisonville, MO 64701
(816)380-3441

ADDITIONAL MATTERS OF RECORD

1. This Report is based on a search of the public records by Coffelt Land Title, Inc. No certification is made herein as to the accuracy of the public records or the effective date thereof. This Report is not a title examination, title opinion, title insurance commitment, or title insurance policy. Coffelt Land Title, Inc. shall not be responsible or liable for any claims, demands, injuries, damage actions, or causes of action caused by inaccuracies contained herein arising from any acts of negligence by its servants, agents or employees and does not include errors, omissions or negligent acts committed by the party to whom such report is given.

2. a. Rights or claims of parties in possession not shown by the public records.

   b. Easements or claims of easements, not shown by the public records.

   c. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land.

   d. Any lien or right to a lien, for services, labor, or material heretofore or hereafter furnished, imposed by law and not shown by the public records.

   e. Taxes or special assessments which are not shown as existing liens by the public records.

3. Taxes for 2024 and subsequent years.

4. Special Assessments, if any, due or pending to the City of Lee's Summit.

5. Terms and provisions of Downtown Center Urban Renewal Plan MO. R-47 as set forth in instrument recorded 03/14/1968 as Document No. I-09578 in Book I-29 at Page 1361.

6. Terms and provisions of Agreement as set forth in instrument recorded 08/27/1973 as Document No. I-162292 in Book I-464 at Page 328.

7. Terms and provisions of Ordinance No. 2349 Vacating a North-South alley as set forth in instrument recorded 08/02/1982 as Document No. I-493010 in Book I-1156 at Page 591.

8. Terms and provisions of Memorandum of Real Property and Monopole Site Lease as set forth in instrument recorded 12/04/1996 as Document No. I-0075652 in Book I-2932 at Page 2224, as amended by the instrument recorded 02/03/2016 as Document No. 2016E0009764.

9. Tenancy rights, if any, either month to month or by virtue of written leases, of parties now in possession of any part of the premises described herein.

10. Effect, if any, of Pending Suit filed 11/14/2022 as Case No. 2216-CV26191 in the Circuit Court of Jackson County, Missouri, styled Jessica Huffman, Plaintiff vs. City of Lee's Summit, Missouri, Defendant.

11. Effect, if any, of Pending Suit filed 02/20/2023 as Case No. 2316-CV04861 in the Circuit Court of Jackson County, Missouri, styled Eric Lee Gordon, Plaintiff vs. City of Lee's Summit, ET AL, Defendant.

12. Effect, if any, of Pending Suit filed 01/17/2024 as Case No. 2416-CV01305 in the Circuit Court of Jackson County, Missouri, styled Anny Eads, Plaintiff vs. City of Lee's Summit, Missouri, Defendant.

13. This company finds no open Mortgages of record executed by the current owner of the Land.

For Informational Purposes Only Regarding Taxes

Property Address: 207 SE Douglas Street, Lee's Summit, MO
Tax I.D. No.: 61-340-20-06-00-0-00-000
2023 St./Co./Ci. Real Estate Tax: $ (Exempt)
2023 Assessed Value: $454,784.00
2023 Mill Levy: .071682
2022 and prior are paid

For Informational Purposes Only Regarding 24 Month Chain of Title

Special Warranty Deed executed by the Land Clearance for Redevelopment Authority of Lee's Summit, Missouri to the City of Lee's Summit, a municipal corporation of the State of Missouri filed 08/24/1973 as Document No. I-162125 in Book I-463 at Page 1486. (Lot 7)

Missouri Warranty Deed executed by Robert L. Aldrich and Gladys W. Aldrich, husband and wife to The City of Lee's Summit, Missouri, a municipal corporation filed 07/27/1973 as Document No. I-159412 in Book I-456 at Page 1692. (Lots 8 & 9)

COFFELT LAND TITLE, INC

PRIVACY POLICY NOTICE

PURPOSE OF THIS NOTICE

Title V of the Gramm-Leach-Bliley Act (GLBA) generally prohibits any financial institution, directly or through its affiliates, from sharing nonpublic personal information about you with a nonaffiliated third party unless the institution provides you with a notice of its privacy policies and practices, such as the type of information that it collects about you and the categories of persons or entities to whom it may be disclosed. In compliance with the GLBA, we are providing you with this document, which notifies you of the privacy policies and practices of Coffelt Land Title, Inc.

We may collect nonpublic personal information about you from the following sources:

- Information we receive from you, such as on applications or other forms.
- Information about your transactions we secure from our files, or from our affiliates or others.
- Information we receive from a consumer reporting agency.
- Information that we receive from others involved in your transaction, such as the real estate agent or lender.

Unless it is specifically stated otherwise in an amended Privacy Policy Notice, no additional nonpublic personal information will be collected about you.

We may disclose any of the above information that we collect about our customers or former customers to our affiliates or to nonaffiliated third parties as permitted by law.

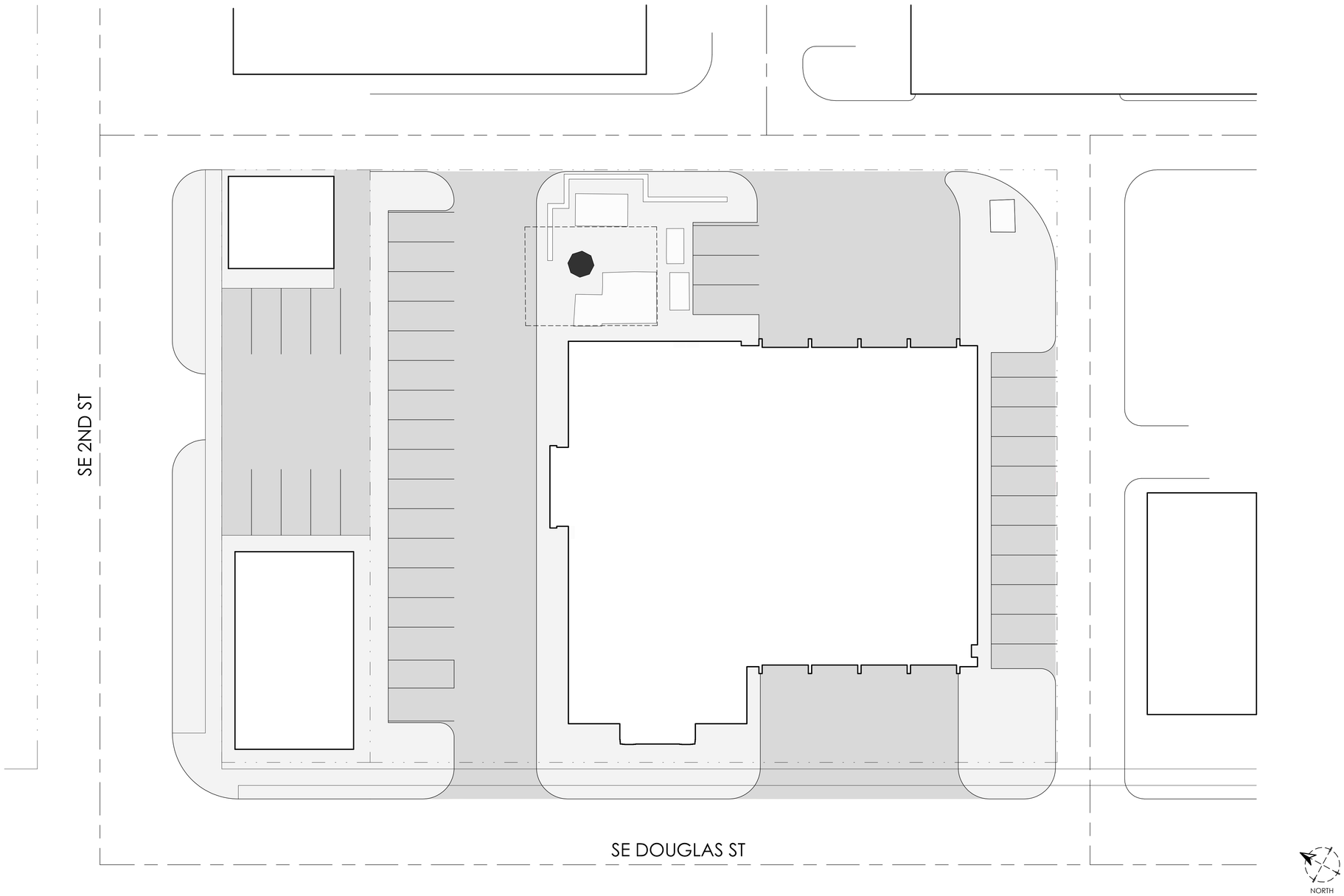
We also may disclose this information about our customers or former customers to the following types of nonaffiliated companies that perform marketing services on our behalf or with whom we have joint marketing agreements:

- Financial service providers such as companies engaged in banking, consumer finance, securities and insurance.
- Non-financial companies such as envelope stuffers and other fulfillment service providers.

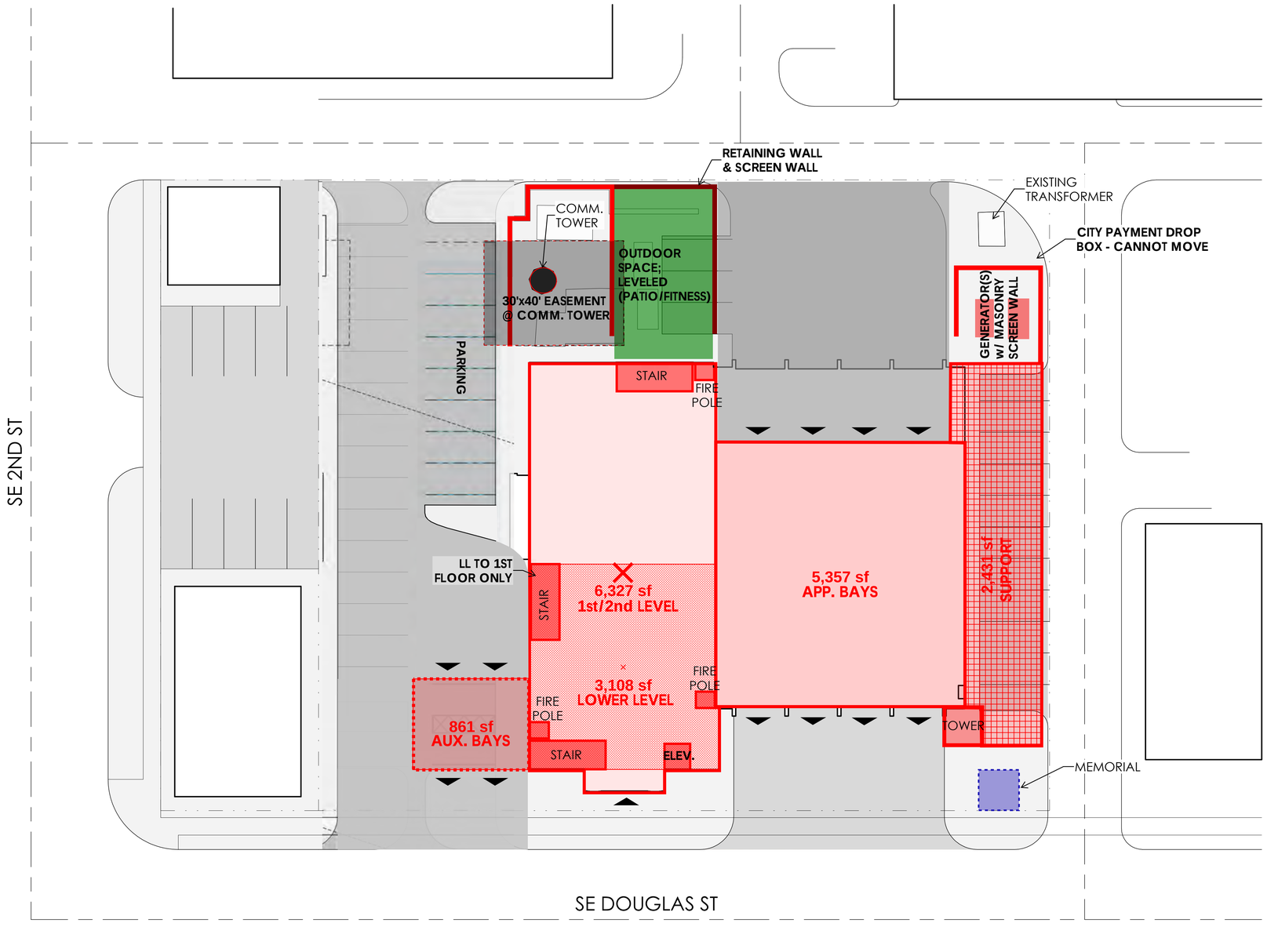
WE DO NOT DISCLOSE ANY NONPUBLIC PERSONAL INFORMATION ABOUT YOU WITH ANYONE FOR ANY PURPOSE THAT IS NOT SPECIFICALLY PERMITTED BY LAW.

We restrict access to nonpublic personal information about you to those employees who need to know that information in order to provide products or services to you. We maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Appendix H – Conceptual Design

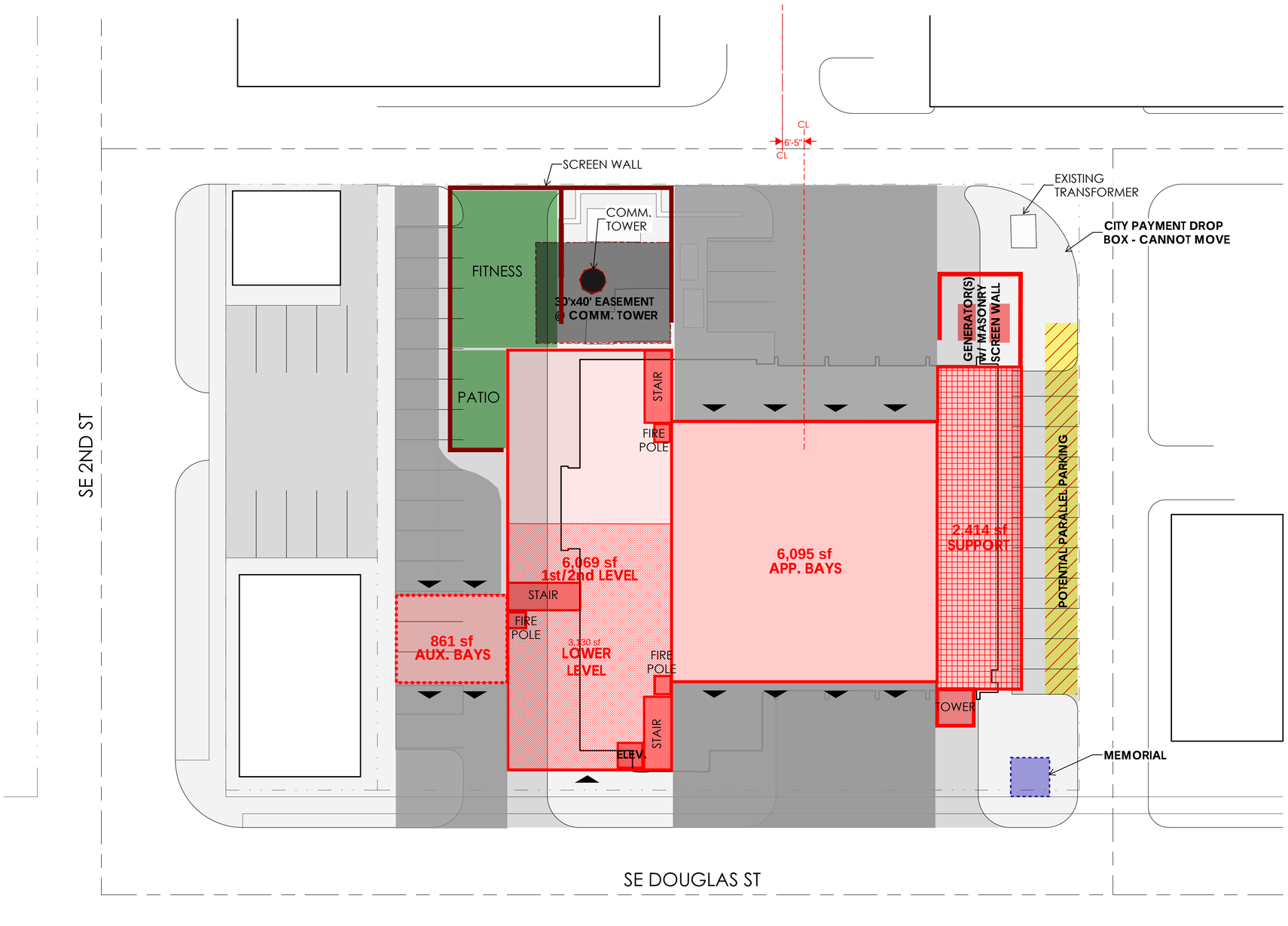


WSKF, Inc. © 2023



REFER TO CURRENT SPACE PROGRAMMING DOCUMENT DATED 4/3/24 FOR LIST OF SPACES ON EACH LEVEL

WSKF, Inc. © 2023



REFER TO CURRENT SPACE PROGRAMMING DOCUMENT DATED 4/3/24 FOR LIST OF SPACES ON EACH LEVEL

WSKF, Inc. © 2023

REFER TO CURRENT SPACE PROGRAMMING DOCUMENT DATED 4/3/24 FOR LIST OF SPACES ON EACH LEVEL

Appendix I – Conceptual Budgets

4/26/24

Lee's Summit Fire Dept.

Concept Budgets

NEWKIRK NOVAK CONSTRUCTION PARTNERS

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NEWKIRK NOVAK
CONSTRUCTION PARTNERS

Budget Summary

NEWKIRK NOVAK
CONSTRUCTION PARTNERS

Lee's Summit Fire Station #1
Lee's Summit, MO
April 26, 2024
Concept Estimates
Construction Cost Summary

Description	Quantity		Cost	Unit Cost	Included In Totals: GenReq	PBI	Construction Contingency	Design Contingency	Owner Contingency	Escalation	Fee
Option #1 Site	1	LS	$ 1,388,096	$ 49	$ 111,048	$ 64,824	$ 67,318	$ 89,757	$ 33,659	$ 47,571	$ 27,829
Option #1 Renovation**	25,170	SF	$ 12,924,323	$ 513	$ 904,703	$ 603,566	$ 626,784	$ 835,712	$ 313,392	$ 442,927	$ 259,112
Option #1 Addition	3,292	SF	$ 5,401,835	$ 1,641	$ 432,147	$ 252,266	$ 238,807	$ 796,024	$ 119,404	$ 168,757	$ 98,723
Construction Subtotal			**$ 19,714,255**		**$ 1,447,897**	**$ 920,656**	**$ 932,909**	**$ 1,721,493**	**$ 466,454**	**$ 659,256**	**$ 385,664**

**** Structural modifications are likely not fully accounted for in the above cost.**

Description	Quantity		Cost	Unit Cost	Included In Totals: GenReq	PBI	Construction Contingency	Design Contingency	Owner Contingency	Escalation	Fee
Option #2 Site	1	LS	$ 1,719,838	$ 70	$ 171,984	$ 80,316	$ 83,406	$ 111,208	$ 41,703	$ 58,940	$ 34,480
Option #2 Building	24,638	SF	$ 16,579,293	$ 673	$ 1,120,964	$ 774,253	$ 817,248	$ 817,248	$ 408,624	$ 577,522	$ 337,850
Construction Subtotal			**$ 18,299,132**	**$ 743**	**$ 1,292,948**	**$ 854,569**	**$ 900,654**	**$ 928,456**	**$ 450,327**	**$ 636,462**	**$ 372,330**

Description	Quantity		Cost	Unit Cost	Included In Totals: GenReq	PBI	Construction Contingency	Design Contingency	Owner Contingency	Escalation	Fee
Option #3 Site	1	LS	$ 2,026,617	$ 79	$ 171,984	$ 94,643	$ 98,284	$ 131,045	$ 49,142	$ 69,454	$ 40,630
Option #3 Building	25,771	SF	$ 17,630,333	$ 684	$ 1,120,964	$ 823,337	$ 869,057	$ 869,057	$ 434,529	$ 614,134	$ 359,268
Construction Subtotal			**$ 19,656,950**	**$ 763**	**$ 1,292,948**	**$ 917,980**	**$ 967,341**	**$ 1,000,102**	**$ 483,670**	**$ 683,588**	**$ 399,899**

Budget Compare

NEWKIRK NOVAK
CONSTRUCTION PARTNERS

Based on FS 4&5 $/SF Esclated

	Fire Station 3		Fire Station 3 Escalated		Des Moines		Fire Stations 4 &5		FS 1 Option 2 (existing site new building)		FS 1 Option 3 (larger site)		FS 1 Average $/SF's from Des Moines and FS4/5		FS 1 NNCP Estimate Option 2		FS 1 NNCP Estimate Option 3	
	Bid Date: Jul-18						Bid Date: 10/30/2022											
	Total SF= 16,042		Escalation= 53%		Total SF= 21,412		Total SF= 22,892		Total SF= 24,638		Total SF= 25,771		Total SF= 25,205		Total SF= 24,638		Total SF= 25,771	
Scope	Cost	$/SF	Cost	$/SF	Cost	$/SF	Cost	$/SF	Cost	$/SF	Cost	$/SF			Cost	$/SF		
Preconstruction						$ -	$ 20,000	$ 1	$ 20,000	$ 1	$ 20,000	$ 1	$ 20,000	$ 1	$ 20,000	$ 1	$ 20,000	$ 1
General Conditions	$ 145,514	$ 9	$ 223,218	$ 14	$ 1,915,020	$ 89	$ 552,808	$ 24	$ 599,000	$ 25	$ 599,000	$ 23	$ 599,000	$ 24	$ 599,000	$ 24	$ 599,000	$ 23
General Requirements	$ 24,525	$ 2	$ 37,621	$ 2		$ -	$ 780,883	$ 34	$ 780,000	$ 32	$ 780,000	$ 30	$ 780,000	$ 31	$ 726,000	$ 29	$ 726,000	$ 28
Existing Conditions			$ -		$ 49,553	$ 2												
Final Clean			$ -			$ -	$ 20,064	$ 1	$ 22,242	$ 1	$ 23,265	$ 1	$ 11,045	$ 0	Included		Included	
Survey			$ -			$ -	$ 6,000	$ 0	$ 6,651	$ 0	$ 6,957	$ 0	$ 3,303	$ 0	Included		Included	
Adjacent Property Buy Out													$ -					
Buidling Demo			$ -			$ -			$ 75,000	$ 3	$ 78,449	$ 3	$ -	$ -	$ 75,000	$ 3	$ 75,000	$ 3
Concrete	$ 370,049	$ 23	$ 567,655	$ 35	$ 1,688,513	$ 79	$ 1,438,065	$ 63	$ 1,594,180	$ 65	$ 1,667,490	$ 65	$ 1,785,459	$ 71	$ 1,475,413	$ 60	$ 1,585,832	$ 62
Masonry	$ 321,678	$ 20	$ 493,454	$ 31	$ 279,608	$ 13	$ 1,336,046	$ 58	$ 1,481,086	$ 60	$ 1,549,195	$ 60	$ 900,071	$ 36	1,547,986	$ 63	$ 1,738,252	$ 67
Steel	$ 257,676	$ 16	$ 395,275	$ 25	$ 547,857	$ 26	$ 936,600	$ 41	$ 1,038,277	$ 42	$ 1,086,023	$ 42	$ 838,053	$ 33	$ 1,281,644	$ 52	$ 1,336,002	$ 52
General Trades	$ 61,917	$ 4	$ 94,981	$ 6	$ 237,380	$ 11	$ 293,845	$ 13	$ 325,745	$ 13	$ 340,724	$ 13	$ 301,477	$ 12	$ 217,949	$ 9	$ 306,821	$ 12
Joint Sealants	$ 127,556	$ 8	$ 195,671	$ 12	$ 357,616	$ 17	$ 103,240	$ 5	$ 114,448	$ 5	$ 119,711	$ 5	$ 267,313	$ 11	$ 178,442	$ 7	$ 193,497	$ 8
EIFS	$ 107,500	$ 7	$ 164,905	$ 10		$ -	$ 113,100	$ 5	$ 125,378	$ 5	$ 131,144	$ 5	$ 62,263	$ 2		$ -		$ -
Roofing & Metal Panels	$ 327,283	$ 20	$ 502,052	$ 31		$ -	$ 845,209	$ 37	$ 936,964	$ 38	$ 980,051	$ 38	$ 465,295	$ 18	$ 854,658	$ 35	$ 922,164	$ 36
Doors/Frames/Hardware	$ 95,805	$ 6	$ 146,965	$ 9	$ 645,546	$ 30	$ 266,500	$ 12	$ 295,431	$ 12	$ 309,017	$ 12	$ 526,653	$ 21	$ 251,172	$ 10	$ 170,168	$ 7
Overhead Doors	$ 52,360	$ 3	$ 80,320	$ 5		$ -	$ 476,040	$ 21	$ 527,719	$ 21	$ 551,986	$ 21	$ 262,064	$ 10	$ 600,000	$ 24	$ 800,000	$ 31
Glazing	$ 90,460	$ 6	$ 138,766	$ 9		$ -	$ 343,812	$ 15	$ 381,136	$ 15	$ 398,663	$ 15	$ 189,272	$ 8	$ 435,374	$ 18	$ 475,041	$ 18
Drywall	$ 374,500	$ 23	$ 574,483	$ 36	$ 562,461	$ 26	$ 1,294,896	$ 57	$ 1,435,469	$ 58	$ 1,501,480	$ 58	$ 1,043,894	$ 41	$ 427,953	$ 17	$ 456,159	$ 18
Tile	$ 71,220	$ 4	$ 109,251	$ 7		$ -	$ 81,400	$ 4	$ 90,237	$ 4	$ 94,386	$ 4	$ 44,811	$ 2	$ 74,313	$ 3	$ 74,966	$ 3
Flooring	$ 21,600	$ 1	$ 33,134	$ 2		$ -	$ 51,100	$ 2	$ 56,647	$ 2	$ 59,252	$ 2	$ 28,131	$ 1	$ 151,441	$ 6	$ 152,962	$ 6
Polished Concrete	$ 24,976	$ 2	$ 38,313	$ 2		$ -	$ 17,500	$ 1	$ 19,400	$ 1	$ 20,292	$ 1	$ 9,634	$ 0	$ 42,332	$ 2	$ 42,332	$ 2
Paint	$ 33,856	$ 2	$ 51,935	$ 3		$ -	$ 107,200	$ 5	$ 118,838	$ 5	$ 124,302	$ 5	$ 59,015	$ 2	$ 104,933	$ 4	$ 113,271	$ 4
Casework	$ 83,488	$ 5	$ 128,071	$ 8		$ -	$ 137,548	$ 6	$ 152,480	$ 6	$ 159,492	$ 6	$ 75,721	$ 3	$ 84,581	$ 3	$ 85,429	$ 3
Specialities	$ 104,159	$ 6	$ 159,780	$ 10	$ 146,816	$ 7	$ 365,654	$ 16	$ 405,349	$ 16	$ 423,989	$ 16	$ 287,706	$ 11	$ 62,100	$ 3	$ 92,185	$ 4
Signage	$ 27,992	$ 2	$ 42,940	$ 3		$ -	$ 64,300	$ 3	$ 71,280	$ 3	$ 74,558	$ 3	$ 35,398	$ 1	$ 5,000	$ 0	$ 11,577	$ 0
Residential Appliance		$ -	$ -	$ -	$ 38,553	$ 2	$ 83,360	$ 4	$ 92,410	$ 4	$ 96,659	$ 4	$ 68,581	$ 3	$ 102,567	$ 4	$ 102,567	$ 4
Window Coverings	$ 7,341	$ 0	$ 11,261	$ 1	$ 8,690	$ 0	$ 14,853	$ 1	$ 16,465	$ 1	$ 17,223	$ 1	$ 13,291	$ 1	$ 20,248	$ 1	$ 22,457	$ 1
Elevator		$ -	$ -	$ -	$ 10,000	$ 0	$ 99,740	$ 4	$ 110,568	$ 4	$ 115,652	$ 4	$ 60,793	$ 2	$ 273,929	$ 11	$ 273,929	$ 11
Fire Suppression	$ 49,120	$ 3	$ 75,350	$ 5	$ 117,157	$ 5	$ 141,960	$ 6	$ 157,371	$ 6	$ 164,608	$ 6	$ 147,104	$ 6	$ 135,037	$ 5	$ 142,815	$ 6
Plumbing	$ 267,600	$ 17	$ 410,498	$ 26	$ 460,424	$ 22	$ 862,036	$ 38	$ 955,618	$ 39	$ 999,563	$ 39	$ 745,546	$ 30	$ 526,835	$ 21	$ 545,598	$ 21
HVAC	$ 483,150	$ 30	$ 741,152	$ 46	$ 1,447,621	$ 68	$ 1,168,046	$ 51	$ 1,294,848	$ 53	$ 1,354,393	$ 53	$ 1,495,032	$ 59	$ 1,246,466	$ 51	$ 1,262,365	$ 49
Electrical	$ 654,423	$ 41	$ 1,003,885	$ 63	$ 1,530,424	$ 71	$ 1,871,441	$ 82	$ 2,074,603	$ 84	$ 2,170,006	$ 84	$ 1,930,992	$ 77	$ 1,586,722	$ 64	$ 1,716,937	$ 67
Security		$ -	$ -	$ -		$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ -
Earthwork	$ 105,855	$ 7	$ 162,382	$ 10	$ 731,984	$ 34	$ 374,980	$ 16	$ 415,688	$ 17	$ 434,803	$ 17	$ 637,246	$ 25	$ 609,882	$ 25	$ 701,353	$ 27
Asphalt Paving	$ 202,644	$ 13	$ 310,856	$ 19	$ 702,870	$ 33	$ 14,500	$ 1	$ 16,074	$ 1	$ 16,813	$ 1	$ 421,664	$ 17	$ 44,798	$ 2	$ 44,798	$ 2
Fence		$ -	$ -	$ -		$ -	$ 33,073	$ 1	$ 36,663	$ 1	$ 38,349	$ 1	$ 18,207	$ 1	$ 8,374	$ 0	$ 8,374	$ 0
Landscaping	$ 96,712	$ 6	$ 148,356	$ 9		$ -	$ 136,496	$ 6	$ 151,314	$ 6	$ 158,272	$ 6	$ 75,142	$ 3	$ 59,818	$ 2	$ 69,244	$ 3
Site Utilities	$ 117,300	$ 7	$ 179,938	$ 11	$ 674,207	$ 31	$ 562,115	$ 25	$ 623,138	$ 25	$ 651,793	$ 25	$ 706,261	$ 28	$ 326,225	$ 13	$ 337,275	$ 13
Sub Total	**$ 4,708,259**	**$ 293**	**$ 7,222,469**	**$ 450**	**$ 12,152,300**	**$ 568**	**$ 15,014,410**	**$ 656**	**$ 16,617,717**	**$ 675**	**$ 17,317,563**	**$ 672**	**$ 14,915,438**	**$ 592**	**$ 14,156,194**	**$ 575**	**$ 15,204,369**	
Builders Risk		$ -					$ 58,788	$ 3	$ 883,225	$ 36	$ 920,422	$ 36	$ 793,065	$ 31	$ 854,569	$ 35	$ 917,980	
SDI		$ -					$ 169,571	$ 7		$ -		$ -		$ -				
P&P Bond	$ 54,370	$ 3	$ 83,404	$ 5			$ 151,169	$ 7		$ -		$ -		$ -				
General Liability		$ -					$ 159,568	$ 7		$ -		$ -		$ -				
Construction Contingency		$ -			$ 348,500		$ 472,993	$ 21	$ 700,038	$ 28	$ 729,519	$ 28	$ 628,340	$ 25	$ 900,654	$ 37	$ 967,341	
Design Contingency					$ 348,500				$ -	$ -	$ -	$ -	$ 314,170	$ 12	$ 928,456	$ 38	$ 1,000,102	
Owner Contingency									$ 357,019	$ 14	$ 372,055	$ 14	$ 320,579	$ 13	$ 450,327	$ 18	$ 483,670	
Escalation		$ -					$ 364,109	$ 16	$ 350,019	$ 14	$ 364,760	$ 14	$ 320,453	$ 13	$ 636,462	$ 26	$ 683,588	
Fee	$ 220,704	$ 14	$ 338,560	$ 21			$ 405,986	$ 18	$ 361,744	$ 15	$ 376,979	$ 15	$ 324,817	$ 13	$ 372,330	$ 15	$ 399,899	
Construction Total=	**$ 4,983,333**	**$ 311**	**$ 7,644,433**	**$ 477**	**$ 12,849,300**	**$ 600**	**$ 16,796,594**	**$ 734**	**$ 18,912,744**	**$ 783**	**$ 19,709,243**	**$ 779**	**$ 16,982,113**	**$ 699**	**$ 18,298,993**	**$ 743**	**$ 19,656,949**	**$ 763**

Option #1 Budget

NEWKIRK
NOVAK
CONSTRUCTION PARTNERS

Lee's Summit Fire Station #1
Lee's Summit, MO
April 22, 2024
Concept Estimates

Option 1 Site

Item	*Description*		*Cost*
1	General Requirements		111,048
2	Excavation and Grading		254,720
3	Asphalt Paving		44,798
4	Concrete Work		166,691
5	Site Structures		107,884
6	Fencing		0
7	Specialty Paving		0
8	Signage and Striping		23,467
9	Site Specialties		3,710
10	Site Utilities		204,566
11	Storm Drainage Systems		18,031
12	Fire Protection		61,656
13	Landscaping and Irrigation		27,395
14	Electrical		33,173
	Subtotal		**1,057,138**
	Permits, Bonds and Insurance	4.67%	64,824
	Construction Contingency	6.00%	67,318
	Design Contingency	8.00%	89,757
	Owner Contingency	3.00%	33,659
	Escalation or Other	4.00%	47,571
	Fee	2.25%	27,829
	Total		**$1,388,096**

Lee's Summit Fire Station #1
Lee's Summit, MO
April 26, 2024
Concept Estimates

Option 1 Renovation
25,170 SF

Item	Description		Cost	Cost/SF
1	General Requirements		904,703	35.94
2	Demolition and Protection		322,176	12.80
3	Structure Modifications		1,764,248	70.09
4	Rough Carpentry		60,000	2.38
5	Finish Carpentry and Millwork		203,050	8.07
6	Thermal and Moisture Protection		524,404	20.83
7	Doors and Hardware		207,397	8.24
8	Glass and Glazing		27,501	1.09
9	Partitions		663,737	26.37
10	Tile		125,000	4.97
11	Ceilings and Acoustic		203,989	8.10
12	Flooring		270,897	10.76
13	Painting and Wall Coverings		127,974	5.08
14	Specialties		212,974	8.46
15	Equipment and Furnishings		128,541	5.11
16	Elevators		0	0.00
17	Fire Protection		151,020	6.00
18	Plumbing		975,160	38.74
19	HVAC Systems		1,208,160	48.00
20	Electrical		1,761,900	70.00
	Subtotal		9,842,830	391.05
	Permits, Bonds and Insurance	4.67%	603,566	23.98
	Construction Contingency	6.00%	626,784	24.90
	Design Contingency	20.0%	835,712	33.20
	Owner Contingency	3.00%	313,392	12.45
	Escalation or Other	4.00%	442,927	17.60
	Fee	2.25%	259,112	10.29
	Total		**$12,924,323**	**$513.48**

Lee's Summit Fire Station #1
Lee's Summit, MO
April 22, 2024
Concept Estimates

Option 1 Addition
3,292 SF

Item	Description		Cost	Cost/SF
1	General Requirements		432,147	131.27
2	Demolition		65,000	19.74
3	Excavation		30,891	9.38
4	Structure		418,846	127.23
5	Enclosure		726,907	220.81
6	Rough Carpentry		21,792	6.62
7	Finish Carpentry		25,759	7.82
8	Roofing and Sheet Metal		89,557	27.20
9	Thermal and Moisture Protection		63,932	19.42
10	Doors and Hardware		613,734	186.43
11	Glass and Glazing		183,551	55.76
12	Interior Partitions		116,811	35.48
13	Stone and Tile		21,743	6.60
14	Ceilings and Acoustic		20,674	6.28
15	Flooring		68,379	20.77
16	Painting		27,564	8.37
17	Specialties		76,106	23.12
18	Equipment and Furnishings		117,309	35.63
19	Special Construction		0	0.00
20	Elevators		0	0.00
21	Fire Protection		21,150	6.42
22	Plumbing		95,359	28.97
23	HVAC Systems		253,001	76.85
24	Electrical		237,642	72.19
	Subtotal		**3,727,855**	**1,132.40**
	Permits, Bonds and Insurance	4.67%	252,266	76.63
	Construction Contingency	6.00%	238,807	72.54
	Design Contingency	20.0%	796,024	241.81
	Owner Contingency	3.00%	119,404	36.27
	Escalation or Other	4.00%	168,757	51.26
	Fee	2.25%	98,723	29.99
	Total		**$5,401,835**	**$1,640.90**

Option #2 Budget

NEWKIRK
NOVAK
CONSTRUCTION PARTNERS

Lee's Summit Fire Station #1
Lee's Summit, MO
April 22, 2024
Concept Estimates

Option 2 Site

Item	*Description*		*Cost*
1	General Requirements		171,984
2	Excavation and Grading		304,567
3	Asphalt Paving		44,798
4	Concrete Work		211,387
5	Site Structures		107,884
6	Fencing		8,374
7	Specialty Paving		0
8	Signage and Striping		23,467
9	Site Specialties		3,710
10	Site Utilities		211,053
11	Storm Drainage Systems		39,371
12	Fire Protection		75,801
13	Landscaping and Irrigation		59,818
14	Electrical		47,569
	Subtotal		**1,309,784**
	Permits, Bonds and Insurance	4.67%	80,316
	Construction Contingency	6.00%	83,406
	Design Contingency	8.00%	111,208
	Owner Contingency	3.00%	41,703
	Escalation or Other	4.00%	58,940
	Fee	2.25%	34,480
	Total		**$1,719,838**

Lee's Summit Fire Station #1
Lee's Summit, MO
April 22, 2024
Concept Estimates

Option 2- New Building
24,638 SF

Item	Description		Cost	Cost/SF
1	General Requirements		1,120,964	45.50
2	Demolition		75,000	3.04
3	Excavation		305,315	12.39
4	Structure		2,525,670	102.51
5	Enclosure		1,373,296	55.74
6	Rough Carpentry		69,861	2.84
7	Finish Carpentry		130,684	5.30
8	Roofing and Sheet Metal		637,116	25.86
9	Thermal and Moisture Protection		178,442	7.24
10	Doors and Hardware		851,172	34.55
11	Glass and Glazing		343,723	13.95
12	Interior Partitions		796,658	32.33
13	Stone and Tile		74,313	3.02
14	Ceilings and Acoustic		130,222	5.29
15	Flooring		193,773	7.86
16	Painting		104,933	4.26
17	Specialties		101,815	4.13
18	Equipment and Furnishings		650,532	26.40
19	Special Construction		0	0.00
20	Elevators		273,929	11.12
21	Fire Protection		135,037	5.48
22	Plumbing		526,835	21.38
23	HVAC Systems		1,233,966	50.08
24	Electrical		1,013,290	41.13
	Subtotal		**12,846,548**	**521.41**
	Permits, Bonds and Insurance	4.67%	774,253	31.43
	Construction Contingency	6.00%	817,248	33.17
	Design Contingency	6.00%	817,248	33.17
	Owner Contingency	3.00%	408,624	16.59
	Escalation or Other	4.00%	577,522	23.44
	Fee	2.25%	337,850	13.71
	Total		**$16,579,293**	**$672.92**

Option #3 Budget

NEWKIRK NOVAK
CONSTRUCTION PARTNERS

Lee's Summit Fire Station #1
Lee's Summit, MO
April 22, 2024
Concept Estimates

Option 3 Site

Item	Description		Cost
1	General Requirements		171,984
2	Excavation and Grading		387,938
3	Asphalt Paving		44,798
4	Concrete Work		283,209
5	Site Structures		164,918
6	Fencing		8,374
7	Specialty Paving		0
8	Signage and Striping		23,467
9	Site Specialties		3,710
10	Site Utilities		212,576
11	Storm Drainage Systems		45,576
12	Fire Protection		79,123
13	Landscaping and Irrigation		69,244
14	Electrical		48,502
	Subtotal		**1,543,419**
	Permits, Bonds and Insurance	4.67%	94,643
	Construction Contingency	6.00%	98,284
	Design Contingency	8.00%	131,045
	Owner Contingency	3.00%	49,142
	Escalation or Other	4.00%	69,454
	Fee	2.25%	40,630
	Total		**$2,026,617**

Lee's Summit Fire Station #1
Lee's Summit, MO
April 22, 2024
Concept Estimates

Option 3 Building
25,771 SF

Item	Description		Cost	Cost/SF
1	General Requirements		1,120,964	43.50
2	Demolition		75,000	2.91
3	Excavation		313,017	12.15
4	Structure		2,638,624	102.39
5	Enclosure		1,516,793	58.86
6	Rough Carpentry		75,129	2.92
7	Finish Carpentry		132,346	5.14
8	Roofing and Sheet Metal		682,291	26.48
9	Thermal and Moisture Protection		193,497	7.51
10	Doors and Hardware		1,087,284	42.19
11	Glass and Glazing		373,713	14.50
12	Interior Partitions		866,723	33.63
13	Stone and Tile		74,966	2.91
14	Ceilings and Acoustic		135,758	5.27
15	Flooring		195,294	7.58
16	Painting		113,271	4.40
17	Specialties		103,762	4.03
18	Equipment and Furnishings		676,900	26.27
19	Special Construction		0	0.00
20	Elevators		273,929	10.63
21	Fire Protection		142,815	5.54
22	Plumbing		545,598	21.17
23	HVAC Systems		1,262,365	48.98
24	Electrical		1,060,914	41.17
	Subtotal		**13,660,951**	**530.09**
	Permits, Bonds and Insurance	4.67%	823,337	31.95
	Construction Contingency	6.00%	869,057	33.72
	Design Contingency	6.00%	869,057	33.72
	Owner Contingency	3.00%	434,529	16.86
	Escalation or Other	4.00%	614,134	23.83
	Fee	2.25%	359,268	13.94
	Total		**$17,630,333**	**$684.12**