



Air Sampling Plan
1000, 1002, and 1004, and 1006-1008 South 4th Street
Clinton, Iowa

Prepared for:
City of Clinton
611 South 3rd Street
Clinton, Iowa 52733-2958

Prepared by:



4165 41st Street, Suite 13
Moline, Illinois 61265

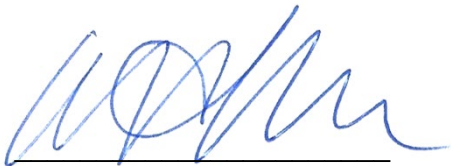
August 21, 2023

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Prepared by:



Krista A. Brodersen
Senior Project Manager

Reviewed by:



Lindsay E. James, R.G.
Senior Project Manager

August 21, 2023

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1 INTRODUCTION

This Air Sampling Plan (Sampling Plan) has been prepared for worker safety, protection of public health, and to outline regulatory requirements. The Sampling Plan establishes the type and amount of sampling, analyses and reporting necessary to document the effectiveness of the engineering controls while demolition of the structures takes place. The structures have been classified as unsound and due to the structural integrity of the buildings the suspect materials cannot be abated. Implementation of the Sampling Plan is necessary for the City of Clinton, its contractors, and regulatory personnel to make management decisions during demolition related to health and environmental protection, demolition debris handling, and segregating debris for proper disposal.

2 PROJECT DESCRIPTION

The building located at 1006 – 1008 South 4th Street collapsed on August 11, 2023. Building materials from the collapse were strewn into South 4th Street. On August 11, 2023, a contractor hired by the City of Clinton removed the debris on South 4th Street and placed it in the collapsed area. The contractor also pushed in the remaining walls of the building to prevent further collapse. In a letter dated August 15, 2023, a structural engineer from Willett Hofman & Associates Inc. indicated the collapsed building posed a significant threat to the structural integrity of the connected buildings located at 1000, 1002, and 1004 South 4th Street. The engineer recommended the buildings located at 1000, 1002, and 1004 South 4th Street be demolished to a level where a collapse would not allow debris to land on the roadway.

Based on the age of the buildings, it is assumed asbestos containing materials (ACM) are present. As the buildings are in severe disrepair and unsafe to enter, testing for ACM has not been conducted. Instead of discrete abatement of the ACM, the buildings will be demolished, and the building materials and contents will be treated as Regulated Asbestos Containing Materials (RACM) and disposed as ACM at an approved landfill. At this time, the City of Clinton is planning to take down the buildings to prevent collapse. The disposal of the building materials and ACM will be conducted at a later date. The potential exists that the demolitions might release asbestos fibers from nominally nonfriable ACM (Category I ACM).

Because of the threat of collapse of the buildings located at 1000, 1002, and 1004 South 4th Street, this project will be completed in two phases. The initial phase will involve the demolition of the structures until a remediation contractor can be retained. This second phase of the project entails the building debris being removed by heavy equipment, loaded into trucks, and hauled away. This plan covers the first phase of the project.

The contractor must provide applicable notifications to the appropriate regulatory agencies, including, but not limited to the Iowa Department of Natural Resources (IDNR) and Iowa Occupational and Safety Administration (IOSHA).

3 HEALTH AND SAFETY PLAN

A Health and Safety Plan (HASP) has been prepared to describe potential hazards of the project and controls and work practices to minimize the hazards. The HASP has been included as an attachment to this plan.

4 SAMPLING PLAN

Blackstone developed the following sampling plan based on IOSHA's regulatory requirements.

4.1. Worker Asbestos Exposure Monitoring Activities

Exposure monitoring for each job classification will be performed during the demolition work by an Iowa licensed ACM Abatement Supervisor in general accordance with OSHA regulations. Air sampling will comply with the requirements of IOSHA's regulatory requirements. An initial exposure and negative exposure assessment (IEA) will be conducted for this project by the City of Clinton's contractor or the asbestos supervisor. During the demolition process, Phase Contrast Microscopy (PCM) personal air samples will be collected representative of a full shift including at least one sample for each job classification in each work area either for each shift or for the shift with the highest exposure level. In addition, at least one short term exposure sample will be collected which represents the 30-minute time period in which the highest exposures to fibers are expected.

4.2. Area Air Monitoring During Demolition Activities

In general accordance with National Emission Standards for Hazardous Pollutants, area samples will be collected daily in the following locations:

- Approximately every 200 feet along the designated demolition work area fence.
- Collect air samples adjacent to the occupied businesses.
- Collect air samples inside adjacent occupied buildings, if accessible.

This asbestos air monitoring is performed to assure that the engineering controls in place during the demolition are adequate to protect the adjacent businesses, the public, and the environment.

4.3. PCM Sample Results

PCM air sample results will be posted daily in the job trailer or at the project site within 24 hours after collection.

5 Report

A report will be prepared at the completion of the project with a map of the sampling locations, photographs, and the results of the analytical testing.

6 LIMITATIONS AND EXCEPTIONS

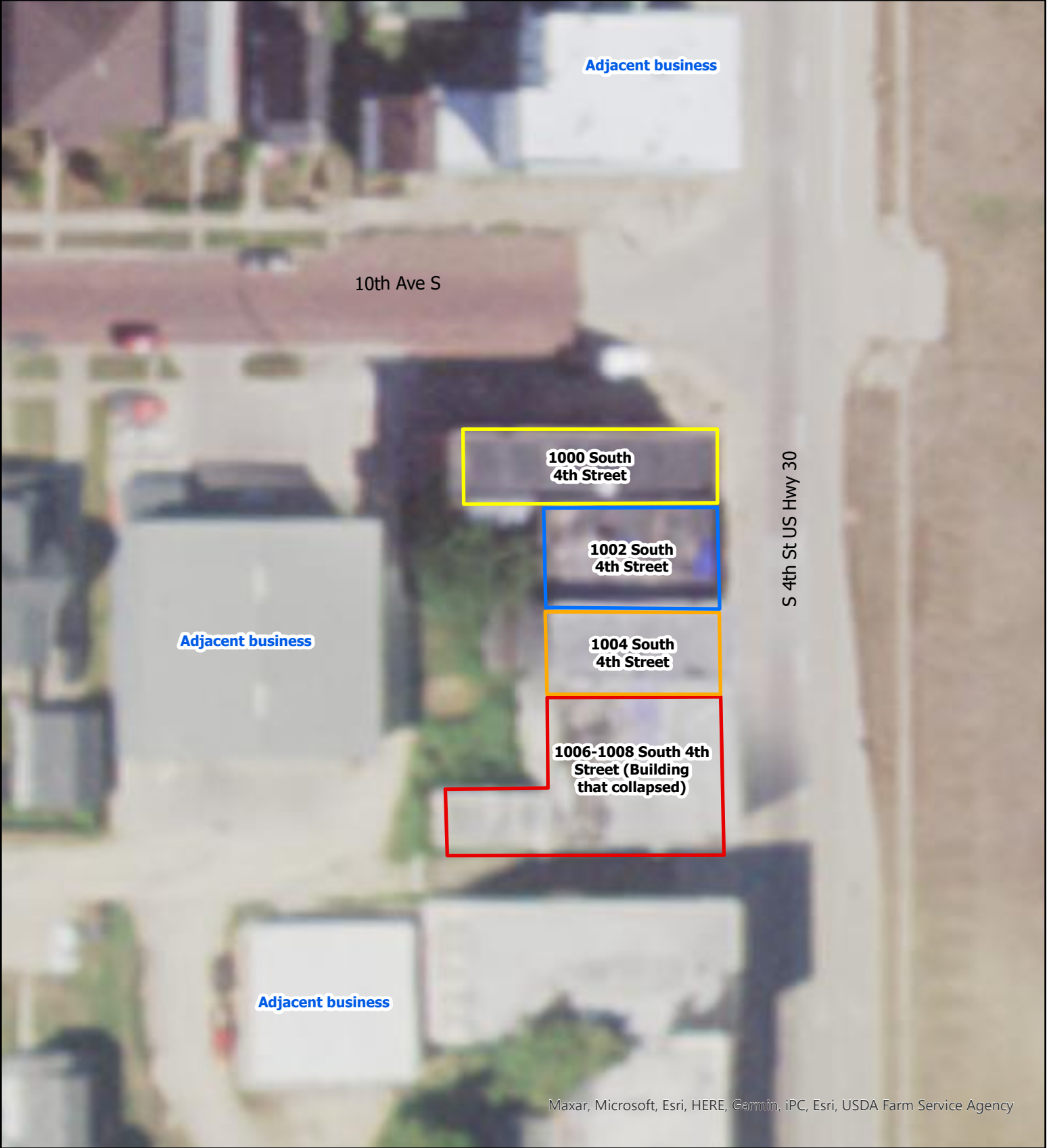
The work described herein was performed in accordance with the scope of work requested and approved by our Client. Environmental issues not specifically addressed in this report were beyond the scope of our services and not included in our evaluation.

This report may be used only by the Client. Land or facility use, on- and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time or any material change in circumstances. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered reliable as of the date of this report, but may be limited by material changes in site circumstances.

Blackstone has performed the services in a manner consistent with that level of care and skill ordinarily exercised by other members of our profession currently practicing in the same locality and under similar conditions. We have endeavored to meet this standard of care but may have been limited by conditions encountered, or inability to review information not received by the report date. No warranties, express or implied, are intended or made.

Limitations identified herein must be considered when the user of this report formulates opinions regarding risks associated with the Site. Additional research and assessment may be performed to further evaluate risks, if requested by the Client. We will, upon request, advise the Client of additional research or assessment options that may be available.

FIGURE



Maxar, Microsoft, Esri, HERE, Garmin, iPC, Esri, USDA Farm Service Agency

Address

- 1000 South 4th Street
- 1002 South 4th Street
- 1004 South 4th Street
- 1006-1008 South 4th Street



0 15 30 60 Feet

FIGURE 1	Project Mgr. KB	Date: 8-2023		CLIENT NAME AND PROJECT NAME	
	Designed By: MO	Rev.:		City of Clinton - Air Sampling Plan	
	Drawn By: MO	Rev.:		SHEET NAME	
	Checked by: KB	Rev.:		Site Location Map	
	Job No.: 3563	Rev.:		PROJECT NAME AND LOCATION	
				1000, 1002, 1004, and 1006-1008 South 4th Street, Clinton, Iowa	

APPENDIX A – Health and Safety Plan

SITE-SPECIFIC HEALTH AND SAFETY PLAN

Project No. 3563

Date August 21, 2023

Client: City of Clinton

Address 1000, 1002, 1004, and 1006 – 1008
South 4th Street
Clinton, Iowa

Site Contact Tammy Johnson **Office/Cell Phone No.** (563) 594-6730

Job Location 1000, 1002, 1004, and 1006 – 1008 South 4th Street, Clinton, Iowa

Work Objectives Asbestos Remediation

Key Individuals: Project Manager Krista Brodersen

Site Health and Safety Megan Ostrand

Prepared by Krista Brodersen **Reviewer/Approver** Lindsay E. James

Hospital/Clinic MercyOne Clinton Medical Center

Phone No. (563) 244-5555

Address: 1410 North 4th Street, Clinton, Iowa

Paramedic 911 **Fire Dept.** 911 **Police Dept.** 911

Emergency/Contingency Plans: In the event of an emergency, dial 911. Provide first aid, transport to hospital or request ambulance, depending on severity of injury. Also notify Krista Brodersen or Megan Ostrand.

15 Minute Eyewash _____ **Fire Extinguisher** required **First Aid Kit** required

Site Control Measures: Wear reflective vests and mark work zone with safety triangles/cones. Blackstone anticipates performing fieldwork in a USEPA Level D work uniform consisting of hard hats, safety glasses, protective gloves, and steel-toed boots.

Personal Decontamination Procedures: If needed, soap and water cleaning on non-disposable personal protective equipment (PPE) and clothing. Proper disposal of other PPE, such as sampling gloves.

EMERGENCY CONTACT INFORMATION**911**

LOCAL LAW ENFORCEMENT	
Name: <u>Clinton Police Department</u>	
Address: <u>113 6th Avenue South</u>	
City: <u>Clinton</u>	State: <u>Iowa</u>
Telephone: <u>(563) 243-1458</u>	
LOCAL FIRE DEPARTMENT	
Name: <u>Clinton Fire Department</u>	
Address: <u>340 3rd Avenue South</u>	
City: <u>Clinton</u>	State: <u>Iowa</u>
Telephone: <u>(563) 242-0125</u>	
NEAREST HOSPITAL or MEDICAL FACILITY	
Name: <u>MercyOne Clinton Medical Center</u>	
Address: <u>1410 North 4th Street, Clinton, Iowa</u>	
City: <u>Clinton</u>	State: <u>Iowa</u>
Telephone: <u>(563) 244-5555</u>	
MAP with DIRECTIONS is attached	
HAZ MAT	
1-800-424-8802	
POISON CONTROL	
1-800-955-9119	
OSHA (In case of emergency call)	
1-800-321-OSHA	
CLIENT CONTACT	
Name: Tammy Johnson	Phone #: (563) 594-6730
BLACKSTONE PROJECT MANAGER	
Name: Krista Brodersen	Phone #: (309) 581-5095
BLACKSTONE FIELD MANAGER/SITE HEALTH AND SAFETY	
Name: Krista Brodersen	Phone #: (309) 581-5095

Job Safety Analysis and PPE Assessment

Complete a "hazard assessment" of the workplace to identify and control chemical, physical, biological, and other health hazards.

Job Safety Analysis and PPE Assessment Form				
Task Type (Check all that apply)	Engineering Services	Task Description (include estimate of task duration in hours/day) Asbestos Remediation	Location or Project: 1000, 1002, 1004, and 1006-1008 South 4 th Street, Clinton, Iowa	
			Date: August 21, 2023	
			Project #: 3563	
Analysis Team Member		Position Title	Reviewed by	Position Title
Krista Brodersen		Senior Project Manager	Lindsay E. James	Senior Project Manager
Charlie Schwarz		ACM Abatement Supervisor		
Special Training Required HAZWOPER 40-hour Asbestos Certification				

Job Task Step	Potential Environmental and Personal Hazards	Critical Actions	PPE Required
1. Pre-Mobilization	Standard office protocols for COVID-19 Review Blackstone Asbestos Program	-Review Blackstone COVID-19 Protocol. -Determine if additional state or local protocols are applicable	Mask, gloves, disinfectant, hand sanitizer, as appropriate

Job Task Step	Potential Environmental and Personal Hazards	Critical Actions	PPE Required
		-Stay up to date on COVID-19 infection rates/situation for area where project is located -Contact parties involved to ensure adherence to strict COVID-19 protocols. -Gather appropriate PPE for project including additional PPE for COVID-19 protection.	
2. Mobilization	Standard Blackstone travel protocols for COVID-19	-If using a shared vehicle, follow protocols for disinfecting vehicle prior to use. -Wear masks if more than one Blackstone team member or if with clients traveling to project site.	Mask, gloves, disinfectant, hand sanitizer, as appropriate sunglasses
3. Asbestos Remediation	Slip/trip/fall Heavy equipment Heat stress Chemical exposure – inhalation of asbestos	-Survey work area for hazards. -Maintain fluids/sunblock/wear appropriate clothing/take breaks. -Wear protective clothing and NIOSH-approved respirator while collecting asbestos samples for laboratory analysis.	Head: Hard hat Body: Work clothes and High-Vis Vest Foot: Steel-toed boots Hand: Nitrile gloves for sampling Eyes: Safety glasses

CHEMICAL HAZARDS

Chemical	Exposure Routes	PEL/ TLV	Hazard
Dust and particulates	inhalation, skin and/or eye contact	PEL: TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp)	Irritation eyes, skin, throat, upper respiratory system. Avoid visible emissions.
Asbestos	Inhalation	TWA 0.1 fiber/m ³ (8 hours) EL 1.0 fiber/m ³ (30 min)	Long-term exposure to asbestos can cause lung cancer and mesothelioma, asbestosis, Pleural disease.

PHYSICAL HAZARDS

☒ Heat ☒ Slip, Trip, Fall ☐ Excavations/Trench
☐ Cold ☐ Electrical Hazards ☒ Moving Equipment
☐ Wet ☐ Underground Hazards ☐ Confined Space

☒ Noise ☐ Overhead Hazards
☐ Other

PERSONAL PROTECTIVE EQUIPMENT

R = Required A = As Needed

☐ A Hard Hat ☐ A Safety Eye gear: glasses w/ side protection
☐ R Safety Boots ☐ A Respirator (Type): Full-face ☐ Half-face ☒
☐ R Reflective Vest ☐ Filter Type: Organic vapor ☐ Acid gas ☐ HEPA
☐ R Hearing Protection ☐ R Gloves (Type): Neoprene ☐ PVC ☒ Nitrile
☐ Tyvek Coveralls ☐ R Other Mobile phone
☐ 5 Minute Escape Respirator

MONITORING/SAMPLING EQUIPMENT

☐ Organic Vapor ☐ PID with lamp of
☐ Analyzer (FID) ☐ Detector Tube (specify)
☐ Oxygen Meter ☐ Passive Dosimeter
☐ Combustible Gas ☒ Air Sampling Pump
☐ Meter ☐ Olympus Delta Hand-Held XRF
☐ H₂S Meter ☐ Filter Media

BIOLOGICAL HAZARDS

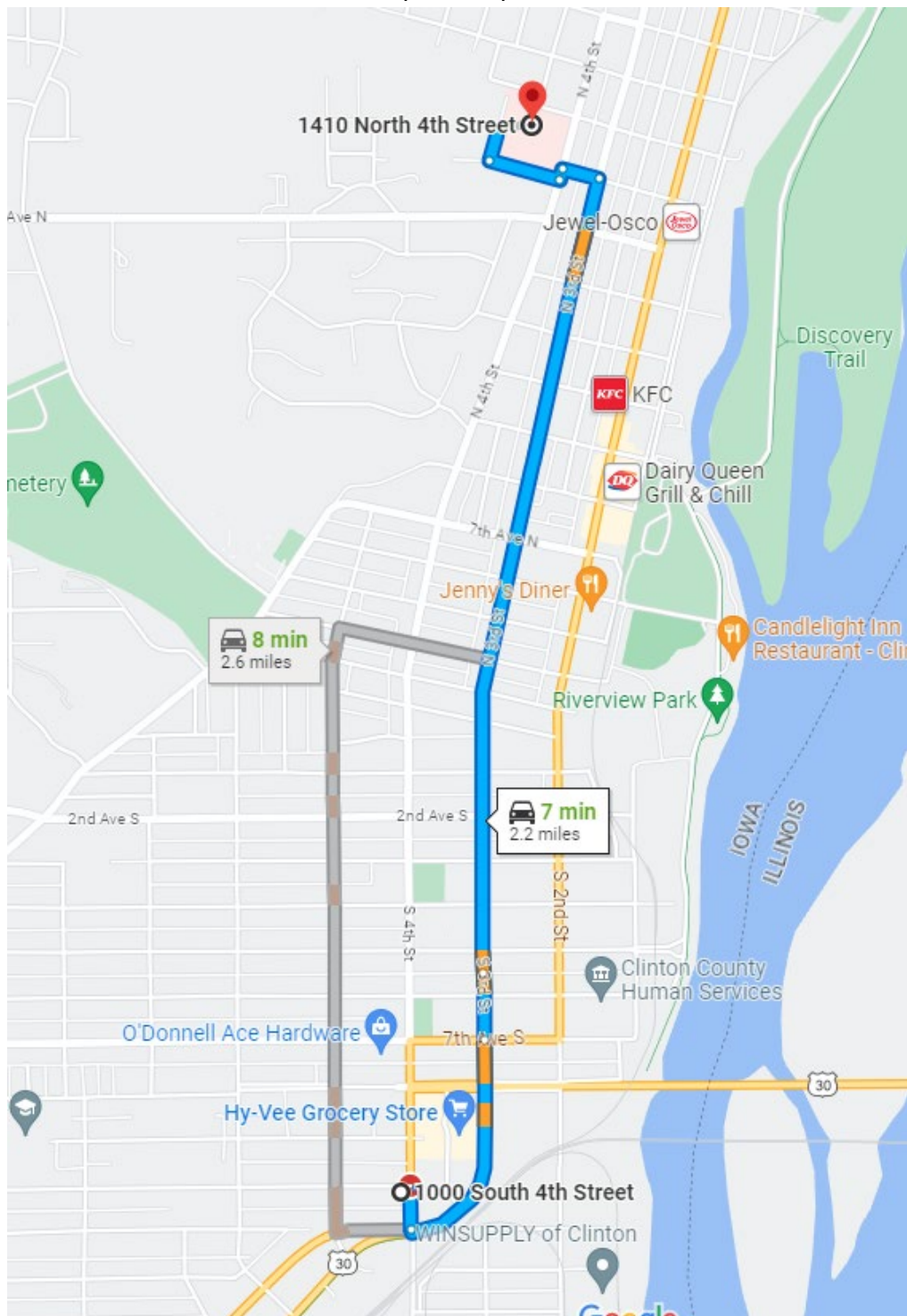
☐ Insects (e.g., mosquitos, chiggers, spiders, bees, wasps)
☐ Poisonous Plants (poison ivy, poison oak)
☐ Animals (Rabid Animals, Dogs)
☒ Other COVID-19

REVIEW COVID-19 TRAVEL AND HOTEL PROTOCOLS INCLUDED AS AN ATTACHMENT TO THIS DOCUMENT**PREVENTION OF HEAT STRESS – REVIEW ATTACHED HEAT STRESS OSHA QUICK CARD**

Workers who are exposed to extreme heat or work in hot environments may be at risk of heat stress. Exposure to extreme heat can result in occupational illnesses and injuries. Heat stress can result in heat stroke, heat exhaustion, heat cramps, or heat rashes. Heat can also increase the risk of injuries in workers as it may result in sweaty palms, fogged-up safety glasses, and dizziness. Burns may also occur as a result of accidental contact with hot surfaces or steam.

REVIEW BLACKSTONE ASBESTOS PROGRAM PRIOR TO MOBILIZING TO SITE.

Map to Hospital



DIRECTIONS

← from 1000 S 4th St, Clinton, IA 52732
to 1410 N 4th St, Clinton, IA 52732

7 min (2.2 miles)



via S 3rd St

This route starts on S 4th St, which is closed now

1000 S 4th St

Clinton, IA 52732

➤ Follow S 3rd St to 14th Ave N

6 min (2.1 mi)

➤ Continue on 14th Ave N to your destination

48 sec (0.2 mi)

1410 N 4th St

Clinton, IA 52732



**004, and 1006-1008 SOUTH 4TH STREET, CLINTON IOWA
ASBESTOS REMEDIATION
ONSITE SAFETY MEETING ATTENDEES**

[illegible]