

Addendum 01 for RFB935800-01

Project Name: Lucas ICN CRAC Replacement
DAS RFB #: 935800-01
DAS Project #: 9358.00
Date: 6/10/24

Bids Due: June 20th, 2024, at 2:00 PM CST

Contents:

- Cover Page – Table of Contents, Clarifications, & Questions (1 page)
- Pre-Bid Meeting Minutes & Sign-In Sheet (6 pages)
- Bid Form reissued with Alternate #2 and Combined bid package option (5 pages)
- Contract Summary reissued with changes noted below (4 pages)
- Hazardous Materials Report from Atlas One (29 pages)

1. Clarifications:

- 1.1. **Bid date has changed to Thursday, June 20th, 2024, at 2:00 PM,**
- 1.2. **Bid opening has changed to Thursday, June 20th, 2024, at 3:00 PM**
- 1.3. **Update to the 01 1200 Contract Summary for Bid Package #01 - ICN will procure the Liebert CRAC units as scheduled on sheet M2 for installation by bid package #01 contractor.**
- 1.4. Specification Section, 01 1200 Contract Summary - Revised 1.03.B to say “Target date to provide substantial completion is April 10th, 2025.
- 1.5. Specification Section, 01 1200 Contract Summary – 1.09.A.6 add to say, “The roof was installed by Brockway Roofing in 2018 and is still under warranty by Firestone, so any repairs need to be made in accordance with the warranty.”
- 1.6. Specification Section, 01 1200 Contract Summary – 1.09.A.17 Bid Package Instructions for Bid Package #1 “Contractor shall remove screen/lighting/electrical conduits on underside of dock room as they will need to be removed/salvaged/reinstalled as part of project due to structural work access. Contractor shall protect existing dock security camera that must stay in place during construction activities.
- 1.7. Drawings, Sheet S1, Screen Wall Panels, Revised MP3 to say “Contractor to provide manufacturer standard deck color options to owner for selection and approval. Provide basis of design two-coat fluoropolymer level of finish
- 1.8. Specification Section, 01 1200 Contract Summary 1.09.E Alternate #2 included to remove the in-shaft piping demo work from Bid Package #01 scope.
- 1.9. Specification Section, 01 1200 Contract Summary 1.09.C Added a combined bid option

2. Questions:

- 2.1. Q. Will Siemens be involved in the project?
A. No. There is only an existing room sensor that will remain connected to Siemens.
- 2.2. Q. Does the structural work need to be staged, or can it be done all at once?
A. It can be done all at once.
- 2.3. Q. For Alternate #1, should the contractor assume the deduct is for equipment only (and the contractor will install owner-provided equipment) or is the deduct for equipment and installation for the temporary cooling?
A. Answer forthcoming in future addendum
- 2.4. Q. Can the dock be completely closed for 2 weeks or does the contractor need to provide overhead protection?
A. Answer forthcoming in future addendum.

RFB Pre-Bid Minutes: Meeting #1

Meeting Date Jun 4, 2024 **Meeting Time** 10:30 AM - 11:30 AM Central Time (US & Canada)

Meeting Location

Overview Meeting to allow prospective bidders to visit the site, when possible, and learn more about the project.

Notes

Attachments

Scheduled Attendees

Name	Company	Phone Number	Email	Attendance
Brad Meister	Capitol Complex Maintenance		brad.meister@iowa.gov	Present
Kurt Fisher	DCI Group	P: (515) 244-5043	kurtf@dcigroup-us.com	Present
Travis Hoyle	DCI Group	P: (515) 244-5043	travish@dcigroup-us.com	Present
Parkes Wilterdink	DCI Group	P: (515) 244-5043	parkesw@dcigroup-us.com	Present
RD Boswell	Iowa Communications Network	P: (515) 725-4738	rd.boswell@icn.state.ia.us	Present
Greg Dorrell	Iowa Communications Network	P: (515) 281-0643	greg.dorrell@icn.state.ia.us	Present
Patrick Kazeze	Iowa Communications Network	P: (515) 725-4670	patrick.kazeze@icn.state.ia.us	Present
Chad Bass	KCL Engineering	P: (515) 724-7938	cbass@kclengineering.com	Present
Eric Heynen	KCL Engineering	P: (515) 724-7938	eheyne@kclengineering.com	Absent
Jennifer Kleene	State of Iowa - Department of Administrative Services	P: (515) 725-0454	jennifer.kleene@iowa.gov	Present

Introduction

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
1.1	1	Introductions				Open
		Description Attendees				
		Official Documented Meeting Minutes Andrew Lawrence - Commonwealth Elec.				

Project Overview

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
2.1	1	Project Description				Open
<p>Description</p> <p>Bid Package #01 – CRAC Unit Replacement: Trade Contractor shall include all of the following, but not limited to, as part of the contract:</p> <ol style="list-style-type: none"> 1. This contractor shall be responsible for the replacement of the ICN CRAC units as outlined in the contract documents which includes but is not limited to demo of existing units and accessories, new AC and condensing units, controls, piping and accessories, structural modifications, and 48" tall louvered screen wall enclosure. 1. This contractor shall be responsible for providing dumpster service for demoed materials. Final placement of the dumpster will need to be coordinated with the owner and Construction Manager 2. This contractor shall remove all hydronic piping associated with existing CRAC units. This includes but is not limited to, existing dry coolers, pumps and piping accessories for dry coolers, existing piping in the mechanical spaces below and piping in the shaft as shown in the contract documents. 3. The contractor is responsible for patching back and sealing existing EPDM roof penetrations that result from removing dry coolers off the roof. 4. Contractor is response for removing existing CRAC Units from Work Room LG48, this includes all piping, hangers and supports and thermostats associated with this equipment. Condensate piping is to remain. 5. This contractor shall supply and install new CRAC, outdoor condensing units and controls as outlined in the contract documents. 6. This contractor shall be responsible for removing and replacing ceiling and floor tiles as required for the work indicated in the contract documents. The contractor is responsible for any damaged tiles/grid that need to be replaced. 7. CRAC units will need to be replaced one at a time dure to continuous use of the space. The contractor shall provide temporary cooling as required for the duration of the project. 8. The contractor shall provide and install three new remote temperature sensors positions by owner in locations withing room LG48 as required. 9. The contractor shall run refrigerants from condensing units to drop down into pate model PCA-5 pipe curb or approved equal. Route roof mounted refrigerant lines from CU-3 under adjacent unit so as to not interfere with maintenance clearances. 10. The contractor shall route refrigerant lines through the corridor ceiling before dropping under floor at server room to connect to the indoor units. 11. This contractor shall provide structural steel beams as noted for the new rooftop unit locations on top of dock roof. Contractor shall cut and replace existing bridging in kind following new steel beam erection. New diagonal bridging shall be installed at locations where distance from new beam to adjacent existing joist is greater than 16". New horizontal bridging shall be installed at locations where distance from new beam to adjacent existing joist is less than 16" 12. This contractor shall provide and install louvered screen wall, sliding door, and necessary mounting brackets and hardware as outlined in the contract documents. All steel framing shall be galvanized and visible steel elements to be painted. 13. This contractor shall patch existing roofing and boots as necessary on the dock roof. <p>Bid Package #02 – Electrical: Trade Contractor shall include all the following, but not limited to, as part of the contract:</p> <ol style="list-style-type: none"> 1. This contractor shall be responsible for all electrical work outlined in the contract documents which includes but is not limited to demolition, new electrical equipment, conduit, breakers, and wiring. 						

2. This contractor shall be responsible for the removal of existing electrical connections, conduit and conductors to water cooled condensing units on the roof. This includes removal of existing disconnects, starters, motor connections and conductors to dry cooler racks in the mechanical penthouse space.
3. The contractor shall install new disconnects and fuses to match MOCP rating of CRAC units. Disconnects shall be installed per code and in an accessible location, coordinate the exact locations with the owner.
4. Install bus taps in existing panels as outlined in the contract documents. These shall be installed on panel "SW" before panel "ET2". Downtime shall be at separate times. Limit the downtime for panels to a maximum of 15 minutes. Coordinate the shutdown/downtime of each panel with owner and construction manager a minimum of two weeks ahead of installation.
5. This contractor shall provide conduit for power connections for new outdoor units. These shall be routed in parallel with refrigerant lines through the corridor ceiling as shown in the contract documents.

Alternate #01 –Temporary Cooling Provided By Others: Trade Contractor shall remove all of the following, but not limited to, as part of the contract:

1. This contractor shall remove the cost for temporary cooling out of the scope for the duration of the project. The owner will procure and provide temporary cooling as necessary for the duration of the project.
2. Execute accepted alternates under the same conditions as other work of the Contract.

Work Performed by Owner: ICN will perform the following work items:

1. Relocate all moveable furniture, fixtures and equipment (FF&E), including window treatments; and personal materials from each sequenced work area prior to demolition and construction activities and after new construction is completed.

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
2.2	1	Project Schedule				Open
<p>Description</p> <ul style="list-style-type: none"> • Contract(s) Issued: Week of June 17th, 2024 • Submittals: June/July 2024 • Construction: January - April 2025 • Closeout: April-May 2025 <p>A pull-plan session will be held with the successful bid package contractors to finalize the construction schedule.</p> <p>State Holidays: New Year's Day, Martin Luther King Day, Memorial Day, 4th of July, Labor Day, Veterans Day, Thanksgiving and day after Thanksgiving, Christmas Day</p>						

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
2.3	1	Site Rules				Open
<p>Description</p> <ul style="list-style-type: none"> • Onsite supervision by Prime Contractor is required at all times when work by that contractor or their subcontractors/suppliers is taking place. • Contractors shall provide daily logs for each day they are on site. • Construction progress meeting will be established once construction starts. • It is of the utmost importance to show respect and courtesy to all staff at all times. 						

- Clean all debris, materials, and bring all finishes back to existing conditions in the area they were working in prior to moving to the next area.
- No smoking, vaping or smokeless tobacco use onsite.

- Temporary facilities
 - to be provided by Bid package #1
- Demolished equipment
- Tool control:
 - All tools and equipment shall be monitored and secured at all times. No vehicles shall be left unlocked when unattended at no times shall keys be left in vehicles when unoccupied.
- Work hours:
 - Typical hours are 7 AM - 5 PM Monday-Friday. Other hours can be arranged on an as needed basis.
- View Specification 01 1200 - Contract Summary for more information.

RFB Overview

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Bid Submission				Open
Description						
<ul style="list-style-type: none"> • Bids are due 2:00 pm Thursday June 13th, 2024 • The Bid shall be submitted to the Issuing Officer through the IMPACS Electronic Procurement System. <ul style="list-style-type: none"> ◦ Link and information is in the project manual ◦ Contractors will need to register prior to bidding ◦ Bidders will need to register regardless of whether it has already done business with the State of Iowa. ◦ Bidders should complete the registration process and ensure the ability to log in as soon as possible to ensure Bids can be submitted on the due date. ◦ Please make sure the electronic documents submitted contain any required signatures. Digital signatures will be accepted. • Bid Opening will be held via conference call on 3:00 pm Thursday June 13th, 2024 • Contractor shall reference section 00 0116 for the bid submittal checklist <ul style="list-style-type: none"> ◦ Bid Proposal Information ◦ Non Discrimination Clause Information ◦ Contractor Targeted Small Business Enterprise Pre-Bid Contract Information ◦ Bid Security – 5% of total Bid amount • Apparent low bidder will be required to submit subcontractor/supplier list 48hrs after the bid opening 						

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
3.2	1	Bid Schedule				Open
Description						
<ul style="list-style-type: none"> • Questions/Substitutions Due in Writing to Construction.Procurement@iowa.gov: June 7th, 2024 • Addendum Issued: by June 11th, 2024 • Bids Due: 2:00 pm Thursday June 13th, 2024 • Tentative NOI Issued: June 14th, 2024 						

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
3.3	1	Administrative Details				Open
Description <ul style="list-style-type: none"> • Contractors will sign a modified ConsensusDocs 802. Example in the project manual. • Project-specific Certificate of Insurance must be provided prior to contract execution. Follow example in the project manual and limits in the 802. • Project-specific P&P bonds must be provided prior to contract execution. • Successful contractor must turn in their list of subcontractors and suppliers within 48 hours of the bid. • DAS will provide tax exempt certificates upon request. • Procure will be used for all project management, at no cost to the trade contractor. <ul style="list-style-type: none"> ◦ Submittals, Invoicing, RFIs, ASIs, PRs, RFQs ◦ Contracts, Change Orders and Certificates of Substantial and Final Completion will also use Docusign • Contractor Schedule of Values shall be broken out as specified in the project manual. <ul style="list-style-type: none"> ◦ SOV must contain a closeout line item for at least 1% of the total contract value. ◦ This line item can only be invoiced once the certificate of final completion has been signed by all parties. 						

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
3.4	1	Pre-Bid Site Visits				Open

Questions

No.	Mtg Origin	Title	Assignment	Due Date	Priority	Status
4.1	1	Questions				Open
Description Submit all questions in writing to construction.procurement@iowa.gov .						

These meeting minutes are believed to be an accurate reflection of those items discussed and the conclusions that were reached during the referenced meeting. Please contact State of Iowa - Department of Administrative Services if there are any discrepancies or questions with the content of these minutes.



Meeting: 9358.00 Lucas ICN CRAC Replacement – Pre-

Bid Meeting

Date: 6/4/24

Attendees

In Attendance (Initial)	Name	Company
	Travis Hoyle	DCI Group
	Scott Meaders	Ballou Electric
	Justin Moffitt	US Erectors, Inc.
	Robert Morris	Aircor Mechanical
	Jamie Kleene	DAS
	Chad Bass	KCL Engineering
	Brad Mastaler	DAS CCM
	M. Litke	DCI Group

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SECTION 00 4116

BID FORM

The Bid Form must be submitted online through the State's [IMPACS Electronic Procurement System](#).

RFB #935800-01

BID FORM for CONSTRUCTION CONTRACT
for
ICN Lucas CRAC Replacement
321 E 12th St. Des Moines, Iowa
Project 9358.00

Iowa Department of Administrative Services
Hoover State Office Building, Level 3
1305 East Walnut Street
Des Moines, Iowa 50319-0105

The following information is to be completed and submitted with your bid..

1. Bid Form - Completed and Signed (to be uploaded with bid submission)
2. Non Discrimination Clause Information
3. Contractor Targeted Small Business Enterprise Pre-Bid Contract Information
4. Bid Security – 5% of total Bid amount (to be uploaded with bid submission)

Authorized Representative:

The undersigned Bidder, in response to your Request for Bid for construction of the above project, having examined the Drawings, Specifications, and other Bidding Documents dated May 17th, 2024, and Addenda issued and acknowledged below as received and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, equipment and supplies to perform all work to construct the project in strict accordance with the proposed Contract Documents, within the time and at the prices stated below. Prices are to cover all expenses incurred in performing the work required under the proposed Contract Documents, of which this bid is a part.

Bidder acknowledges receipt of the following Addenda which are a part of the Bidding Documents and for which any effect on cost of the Work is included in the bid amounts indicated:

Number _____

Dated _____

Note that the State of Iowa is exempt from State and Local sales and use taxes (including local option and school option) for this project. Taxes on construction materials shall NOT be included in the bid amounts.

Amounts shall be indicated in both words and figures. In case of discrepancy, the amount indicated in words shall govern.

BID PACKAGES:

BP 01

Description: CRAC Unit Replacement

Bidder proposes and agrees to perform all work as described in the Construction Documents for the sum of:

_____ Dollars
(\$_____).

BP 02

Description: Electrical

Bidder proposes and agrees to perform all work as described in the Construction Documents for the sum of:

_____ Dollars
(\$_____).

BP 03

Description: Combined Bid Option for BP #01 and BP #02

Bidder proposes and agrees to perform all work as described in the Construction Documents for the sum of:

_____ Dollars
(\$_____).

ALTERNATES:

ALT 01

Description: Temporary Cooling Provided by Owner (Remove from Bid Package #1 Scope)

Bidder proposes and agrees to provide a deduct for temporary cooling as described in the Construction Documents for the sum of:

_____ Dollars
(\$_____).

ALT 02

Description: Alternate to remove the vertical in-shaft piping demo from Bid Package #1 Scope

Bidder proposes and agrees to provide a deduct for capping at each end and abandoning in place for the sum of:

Dollars

(\$_____).

Bidder hereby certifies that:

1. This bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm or corporation;
2. Bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain any advantage over any other bidder or over the Owner.
3. Bidder hereby certifies that the Bidder is registered with the Iowa Labor Commissioner as a Contractor as required by Chapter 91C, Code of Iowa.
4. Bidder agrees to comply with all Federal and State Affirmative Action/Equal Employment Opportunity requirements concerning fair employment and will not discriminate between or among them by reason of race, color, religion, sex, national origin or physical handicap.
5. All construction under this Contract shall conform to the requirements of the *Iowa State Building Code*.
6. Bidder agrees that this bid shall remain valid and shall not be withdrawn for a period of thirty (30) calendar days after the date for receipt of bids.
7. Bidder agrees that if written notice of acceptance of this bid is mailed, emailed, or delivered to the undersigned within thirty (30) days after the date in which bids are due, or at any time thereafter before it is withdrawn, the undersigned will sign and return the Contract Agreement, prepared in accord with the Bidding Documents and this bid as accepted; and will also provide proof of insurance coverage and required surety bonds.
8. Bidder understands that the Owner reserves the right to reject any and all bids, and to waive irregularities or informalities and enter into a contract for the work, as the Owner deems to be in the best interest of the State.
9. Bidder understands that the Owner reserves the right to accept any, or no, Alternate Bid, if requested, and that the Alternate Bids may be considered in any order or combination, and the low Bidder shall be determined on the basis of the sum of the base bid and any Alternate(s) accepted.

Subcontractors:

The Trade Contractor must identify all Subcontractors and Suppliers within 48 hours of the published date and time for which bids must be submitted, in accordance with Iowa Code Section 8A311, as amended by House File 646 in 2011. Subcontractors and suppliers may not be changed without the approval of the Owner. Requests for changing a Subcontractor or supplier must identify the reason for the proposed change, the name of the new Subcontractor or supplier, and the change in the subcontractor or supplier price as a result of the change. Any reduction in subcontractor or supplier price as a result of the change, if the change is approved by the Owner, shall be deducted from the Trade Contract Price via a deductive Change Order. Any such changes, if approved by the Owner, which result in an increase in the Trade Contract Price shall be borne by the Trade Contractor.

Enforcement of Reciprocal Resident Bidder Preference, per Iowa Code 73A.21.

All bidders shall either check the box next to "Resident Bidder" or check the box next to "Nonresident Bidder" and by doing so and signing thereafter certifies and attests to the same. All information requested must be provided. Seek out the advice of an attorney if you have questions.

"Resident Bidder" means a person or entity authorized to transact business in of the State of Iowa and having a place of business for transacting business within the State of Iowa at which it is conducting and has conducted business for at least three years prior to the date of the first advertisement for the public improvement. Note, however, that if a nonresident bidder's state or foreign country has a more stringent definition of a resident bidder, the more stringent definition is applicable as to bidders from that state or foreign country.

Resident Bidder

Name of Resident Bidder: _____

By: _____
Authorized Agent and Signatory of Resident Bidder

OR:

Nonresident Bidder

Name of Nonresident Bidder: _____

Name of State or Foreign Country of Nonresident Bidder: _____

Particularly identify and describe any preference, labor preference, or any other type of preferential treatment, in effect in the nonresident bidder's state or foreign country at the time of this bid:

NOTICE: Nonresident Bidders domiciled in a state or country with a resident labor force preference shall make and keep, for a period of not less than three years, accurate records of all workers employed on the public improvement. The records shall include each worker's name, address, telephone number when available, social security number, trade classification, and the starting ending time of employment.

By: _____
Authorized Agent and Signatory of Nonresident Bidder

Bid Form shall be signed by an officer of the company with authority to bind in a contract. Notice of acceptance of this bid, or request for additional information by the Department of Administrative Services, may be addressed to the undersigned at the address set forth below:

Legal Name of Firm: _____

Date: _____

Signature of Bidder: _____

Title: _____

Typed Name of Signatory: _____

Email: _____

Business Address:

Telephone Number: _____ Fax Number: _____

Federal Tax Identification Number: _____

Iowa Contractor Registration Number: _____

Bidder Safety Manager Name: _____

For an out-of-state Bidder, Bidder certifies that the Resident Preference given by the State or Foreign Country of Bidder's residence, _____, is _____ %.

END OF SECTION

SECTION 01 1200

CONTRACT SUMMARY

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Project Information
- B. Project Summary
- C. Bid Scope Summary
- D. Work Hour Restrictions
- E. Access to Site
- F. Coordination with Occupants
- G. Rules for Construction Workers
- H. Bid Package Instructions

1.02 PROJECT INFORMATION

- A. Facility Name/Location: Lucas Building 321 E 12th St., Des Moines, Iowa 50319
- B. DAS Project #: 9358.00
- C. Owner: State of Iowa, Department of Administrative Services, Hoover State Office Building, Level 3, 1305 East Walnut Street, Des Moines, IA 50319
- D. Owner's Representative: Jennifer Kleene, Iowa Department of Administrative Services, 109 SE 13th Street, Des Moines, IA 50319
- E. Construction Manager: Travis Hoyle, DCI Group, 220 SE 6th St. Suite 200, Des Moines, IA 50309

1.03 PROJECT SUMMARY

- A. The project includes the replacement of CRAC units for ICN
- B. Target date to provide substantial completion is April 10th, 2025.

1.04 BID SCOPE SUMMARY

- A. Scope Applicable to All Bid Packages:
 - 1. The Contractor's Work includes all labor, supervision, materials, equipment, services, supplies, tools, facilities, transportation, hoisting, storage, receiving, licenses, inspections, certifications, overhead, profit, or other items required or reasonably inferable to properly and timely perform and complete all work and services to be performed by the Contractor pursuant to this Agreement. Unless specifically stated otherwise, incidental work required to accomplish the work of this Bid Package shall be included in the bid. This would include, but not be limited to, temporary facilities, protection of the work, security of equipment, materials, and work in progress, etc. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
 - 2. Contractor is responsible for all labor and equipment to unload, account for all material delivered, stock, and delivery for this scope of work. Storage and delivery of materials and equipment at the Site shall be permitted only to the extent approved in advance by the Construction Manager, and if anything, so stored obstructs the progress of any portion of the work, it shall be promptly removed or relocated by the Contractor without reimbursement.
 - 3. On-site supervision by Prime Contractor at all times work by that contractor or their subcontractors/suppliers is taking place.
 - 4. Provide all temporary facilities required for this scope of work including trailer, trailer power, telephone, secured storage, temporary power for work, temporary and task

lighting for work, etc. as determined necessary by Contractor. Coordinate location of trailers, material storage and utility lines with Construction Manager. Limited space is available, and permission to bring any such facility or excess materials on to the site shall be approved by the Construction Manager.

5. Contractor shall provide all equipment and tools for Contractor's own cleanup. Clean up shall be done at end of every shift or more frequently if required for the Contractor to perform their work, for other Contractors to perform their work, as required by the Owner's operations, and at the discretion of the Construction Manager.
6. All turf, landscaping, and subgrade disturbances caused by equipment traffic or other activities related to the Contractor's scope shall be repaired or restored to proper conditions by the Contractor.
7. Protect adjacent existing building elements from damage from Scope of work. Repair existing building elements damaged during Contractor's Scope of work.

1.05 WORK HOUR RESTRICTIONS

- A. Work hours are from 7:00 AM to 5:00 PM, Monday through Friday unless arrangements are made in advance.

1.06 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
- B. Provide access to and from site as required by law and Owner:
 1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
 2. Do not obstruct roadways, sidewalks, or other public ways without permission of Owner and permit if required.
- C. Facility will be occupied at all times during duration of work. Contractor personnel shall conduct themselves in an agreeable manner at all times. Failure to do so may result in removal from the work site.

1.07 OWNER OCCUPANCY

- A. Owner intends to occupy the Project throughout construction.
- B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- C. Schedule the Work to accommodate Owner occupancy.

1.08 RULES FOR CONSTRUCTION WORKERS

- A. The staff of the State of Iowa has a responsibility to protect the public by providing a secure environment. All work site rules must be followed to the letter, at all times.
- B. All construction workers must have a background check completed prior to entering the campus to perform work.
- C. Hot Work Permit Processes and Fire Watch, when necessary, will be adhered to for this project.
- D. All State properties are tobacco free. No smoking will be permitted or tolerated on campus unless in designated areas.
- E. You are permitted access only to the work site and no other area of the institution.
- F. No drugs, alcohol, or firearms are allowed on the work site.
- G. Do not leave money, drugs, alcohol, or firearms in your personal vehicle.
- H. Company and personal vehicles are to be parked and locked in designated or authorized area of the work.
- I. Secure all tools at the end of the day.
- J. Maintain control of all tools, supplies, and debris at all times during the work.
- K. All delivery vehicles must go directly to the job site. Extra time should be anticipated for all deliveries. Provide 24-hour notice to the facility of deliveries.

- L. During an emergency, follow the instructions of the security staff.

1.09 BID PACKAGE INSTRUCTIONS

- A. **Bid Package #01 – CRAC Unit Replacement:** Trade Contractor shall include all of the following, but not limited to, as part of the contract:
 1. Includes specifications: 230513, 230529, 230553, 230593, 230719, 230800, 232300, 238123.12
 2. Includes Drawing Sheets: All
 3. ICN will procure Liebert CRAC units as scheduled on sheet M2, this contractor is responsible for installing the owner supplied equipment.
 4. This contractor shall be responsible for the replacement of the ICN supplied CRAC and AC and condensing units as outlined in the contract documents which includes but is not limited to demo of existing units and accessories, controls, piping and accessories, structural modifications, and 48" tall louvered screen wall enclosure.
 5. This contractor shall be responsible for providing dumpster service for demoed materials. Final placement of the dumpster will need to be coordinated with the owner and Construction Manager
 6. This contractor shall remove all hydronic piping associated with existing CRAC units. This includes but is not limited to, existing dry coolers, pumps and piping accessories for dry coolers, existing piping in the mechanical spaces below and piping in the shaft as shown in the contract documents.
 7. The contractor is responsible for patching back and sealing existing EPDM roof penetrations that result from removing dry coolers off the roof. The roof was installed by Brockway Roofing in 2018 and is still under warranty by Firestone, so any repairs need to be made in accordance with the warranty.
 8. Contractor is response for removing existing CRAC Units from Work Room LG48, this includes all piping, hangers and supports and thermostats associated with this equipment. Condensate piping is to remain.
 9. This contractor shall install new CRAC, outdoor condensing units and controls as outlined in the contract documents.
 10. This contractor shall be responsible for removing and replacing ceiling and floor tiles as required for the work indicated in the contract documents. The contractor is responsible for any damaged tiles/grid that need to be replaced.
 11. CRAC units will need to be replaced one at a time dure to continuous use of the space. The contractor shall provide temporary cooling as required for the duration of the project.
 12. The contractor shall provide and install three new remote temperature sensors positions by owner in locations withing room LG48 as required.
 13. The contractor shall run refrigerants from condensing units to drop down into pate model PCA-5 pipe curb or approved equal. Route roof mounted refrigerant lines from CU-3 under adjacent unit so as to not interfere with maintenance clearances.
 14. The contractor shall route refrigerant lines through the corridor ceiling before dropping under floor at server room to connect to the indoor units.
 15. This contractor shall provide structural steel beams as noted for the new rooftop unit locations on top of dock roof. Contractor shall cut and replace existing bridging in kind following new steel beam erection. New diagonal bridging shall be installed at locations where distance from new beam to adjacent existing joist is greater than 16". New horizontal bridging shall be installed at locations where distance from new beam to adjacent existing joist is less than 16"
 16. This contractor shall provide and install louvered screen wall, sliding door, and necessary mounting brackets and hardware as outlined in the contract documents. All steel framing shall be galvanized and visible steel elements to be painted.
 17. This contractor shall patch existing roofing and boots as necessary on the dock roof.
 18. Contractor shall remove screen/lighting/electrical conduits on underside of dock room as they will need to be removed/salvaged/reinstalled as part of project due to structural work

access. Contractor shall protect existing dock security camera that must stay in place during construction activities.

- B. **Bid Package #02** – Electrical: Trade Contractor shall include all the following, but not limited to, as part of the contract:
1. Includes specifications: 260500, 260519, 260526, 260529, 260533.13, 260533.16, 260553, 262726, 262813, 262816.16.
 2. Includes Drawing Sheets: All
 3. This contractor shall be responsible for all electrical work outlined in the contract documents which includes but is not limited to demolition, new electrical equipment, conduit, breakers, and wiring.
 4. This contractor shall be responsible for the removal of existing electrical connections, conduit and conductors to water cooled condensing units on the roof. This includes removal of existing disconnects, starters, motor connections and conductors to dry cooler racks in the mechanical penthouse space.
 5. The contractor shall install new disconnects and fuses to match MOCP rating of CRAC units. Disconnects shall be installed per code and in an accessible location, coordinate the exact locations with the owner.
 6. Install bus taps in existing panels as outlined in the contract documents. These shall be installed on panel “SW” before panel “ET2”. Downtime shall be at separate times. Limit the downtime for panels to a maximum of 15 minutes. Coordinate the shutdown/downtime of each panel with owner and construction manager a minimum of two weeks ahead of installation.
 7. This contractor shall provide conduit for power connections for new outdoor units. These shall be routed in parallel with refrigerant lines through the corridor ceiling as shown in the contract documents.
- C. **Bid Package #3** – Combined Bid Package Option for BP #01 & BP #02
- D. **Alternate #01** –Temporary Cooling Provided By Others: Trade Contractor shall remove all of the following, but not limited to, as part of the contract:
1. This contractor shall remove the cost for temporary cooling out of the scope for the duration of the project. The owner will procure and provide temporary cooling as necessary for the duration of the project.
 2. Execute accepted alternates under the same conditions as other work of the Contract.
- E. **Alternate #02** –Remove the vertical in-shaft piping demo work from BP #1 Scope: Trade Contractor shall remove all the following, but not limited to, as part of the contract:
1. This contractor shall remove the cost to demo the vertical in-shaft piping from Bid Package #01 scope of work.
 2. Contractor shall drain all piping, cap them at both ends and clearly mark as abandoned.
 3. Execute accepted alternates under the same conditions as other work of the Contract.
- F. **Work Performed by Owner:** ICN will perform the following work items:
1. Relocate all moveable furniture, fixtures and equipment (FF&E), including window treatments; and personal materials from each sequenced work area prior to demolition and construction activities and after new construction is completed.

END OF SECTION



HAZARDOUS BUILDING MATERIALS SURVEY REPORT

PREPARED FOR:

DCI Group
220 SE 6th Street, Suite 200
Des Moines, IA 50309

PROJECT LOCATION:

Lucas Building CRAC Unit Replacement Project #9358
321 E 12th Street
Des Moines, Iowa

Project Date: May 17, 2024

Report Date: June 7, 2024

Atlas Project ID: 204BS07163

PREPARED BY:

Atlas Technical Consultants
4503 E 50th Street, Suite 800
Des Moines, IA 50317



June 7, 2024

Mr. Parkes Wilterdink
DCI Group
220 SE 6th Street, Suite 200
Des Moines, IA 50309

Re: Hazardous Building Materials Survey Report

Lucas Building CRAC Unit Replacement Project #9358
321 E 12th Street
Des Moines, Iowa
Atlas Project No.: 204BS07163

Atlas is pleased to submit the attached Hazardous Building Materials Survey Report for the above-referenced site. The survey was limited to surfaces and materials that would be impacted by planned restoration activities within rooms LG-51, 52, 58, and the loading dock area. This report includes procedures, methodologies and analytical laboratory results.

Atlas appreciates the opportunity to perform these services for the DCI Group, and we look forward to working with you in the future. If you need any assistance with the implementation of the recommendations contained in this report, please feel free to give us a call at (402) 670-3842 and we will respond promptly to your needs.

Sincerely,

ATLAS TECHNICAL CONSULTANTS, LLC

A handwritten signature in cursive script that reads "Trevor Parks".

Trevor Parks
Iowa Inspector
(402) 697-9747

A handwritten signature in cursive script that reads "Steve Hudson".

Steve Hudson, MS, CIH
Senior Project Manager
(402) 670-3842

T A B L E O F C O N T E N T S

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APPENDIX B	LEAD PAINT TEST RESULTS
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H A Z A R D O U S B U I L D I N G M A T E R I A L S S U R V E Y R E P O R T

Lucas Building CRAC Unit Replacement Project
321 E 12th Street
Des Moines, Iowa
Atlas Project No.: 204BS07163

1.0 SCOPE OF SERVICES

The purpose of this project was to perform a survey for hazardous building materials that may be impacted by planned renovation activities at the above-referenced property within rooms LG-51, 52, 58, and the loading dock area.

Atlas provided a representative hazardous materials survey in accordance with the referenced agreement and as outlined below:

1. Review any existing hazardous building material survey reports relating to the site, if available.
2. Identify suspect asbestos-containing materials (ACM), surface coatings potentially containing lead paint, and hazardous building materials within the planned work areas.
3. Collect and analyze bulk samples of suspect asbestos containing materials and collect paint chip samples from representative surface coatings potentially containing lead-based or lead-containing paint.
4. Provide laboratory analysis of collected samples.
5. Provide a report of findings with copies and interpretation of analytical results and identifying the locations of asbestos-containing materials, lead paint, and hazardous building materials.

2.0 GENERAL SITE CONDITIONS

The survey was conducted at the Lucas Building located at the 321 E 12th Street, in Des Moines, Iowa. The survey area was limited to the areas to be disturbed by CRAC Unit Replacement Project activities within rooms LG-51, 52, 58, and the loading dock area.

3.0 ASBESTOS SURVEY

On May 17, 2024, areas expected to be impacted by planned renovation activities were inspected for asbestos-containing building materials by inspector Eric Brown of Atlas. Mr. Brown has completed the requisite training for asbestos accreditation as inspector at a state approved training provider under TSCA Title II. Mr. Brown's State of Iowa Inspector number is #24-11418.



The planned renovation work areas were visually inspected for the presence of suspect asbestos-containing materials (ACM). Materials that were hidden, not accessible, or when sampled would damage the integrity of the structure, were not sampled as part of this survey. Materials visibly identified as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled. The asbestos survey consisted of three basic steps: **1)** a visual inspection of the proposed work areas; **2)** a determination of homogeneous areas with suspect surfacing, thermal system insulation, and miscellaneous materials; and **3)** sampling accessible, friable and non-friable, suspect materials.

3.1 Regulation Review

The U.S. EPA qualifies asbestos-containing materials (ACM) as materials with an asbestos content greater than 1%. The following definitions are taken from Section 61.141 of Subpart M, Part 61 of Title 40: Protection of Environment of the Code of Federal Regulations (CFR).

- “Category I non-friable asbestos-containing material (ACM)” is defined as asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy (PLM).
- “Category II non-friable ACM” is defined as any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that, when dry, **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.
- “Friable asbestos material” is defined as any material containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that when dry, **can** be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10% as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

3.2 Homogeneous Areas

Prior to sampling, homogeneous areas were identified in order to facilitate a sampling strategy. A homogeneous sampling area can be described as one or more areas with suspect material similar in appearance and texture that have the same installation date and function. The actual number of samples collected from each



homogeneous sampling area may vary, dependent upon material type and the professional judgment of the inspector.

3.3 Sampling Strategy

The sampling strategy incorporated AHERA requirements, quantities of suspect material, and the inspector's judgment to aid in the identification of suspect asbestos-containing materials. If the analytical results indicated that all the samples collected per homogeneous area did not contain asbestos, then the homogeneous area (material) was considered non-asbestos-containing. However, if the analytical results of one or more of the samples collected per homogeneous area indicated that asbestos was present in quantities greater than one percent asbestos (as defined by EPA), all of the homogeneous area (material) was treated as an asbestos-containing material regardless of any other analytical results. Materials which were visually determined to be non-asbestos (i.e. fibrous glass, foam rubber, etc.) by the accredited inspector were not required to be sampled. Actual collection of a bulk asbestos sample involves physically removing approximately one square inch (1 in²) of material and placing it in an airtight sample container. Sample containers were marked with a unique identification number, which was documented in the field notes.

3.4 Suspect Asbestos-Containing Materials

The following table contains a list of the twenty-two (22) identified suspect asbestos containing materials sampled:



Table 1. Summary of Suspect Materials Sampled		
Sample No.	Homogenous Material	Location
LUC-1	CMU	Loading Dock
LUC-2	CMU Mortar	Loading Dock
LUC-3	Brick Mortar	Loading Dock
LUC-4	Brittle White Caulk	Loading Dock Doorway
LUC-5	Caulk Dark Gray	Loading Dock Doorway
LUC-6	Brick Mortar	LG-58
LUC-7	“Striped” Brick	LG-58
LUC-8	Plaster	LG-58
LUC-9	Drywall	LG-58
LUC-10	2’x2’ Ceiling Tile	LG-52 & 51
LUC-11	Ceiling Insulation	LG-52 & 51
LUC-12	Ceiling Insulation	LG-52 & 51
LUC-13	Ceiling Insulation	LG-52 & 51
LUC-14	Plaster	LG-52
LUC-15	Drywall Tape	LG-52
LUC-16	Drywall Mud	LG-52
LUC-17	Drywall Mud	LG-52
LUC-18	Plaster	LG-52
LUC-19	Drywall Mud	LG-52
LUC-20	Fireproof Caulk Red	LG-52
LUC-21	White Roof Caulking	Loading Dock Roof
LUC-22	Roofing Core Sample	Loading Dock Roof

The following table is a summary of the suspect asbestos-containing materials that have been determined, through laboratory analysis, to contain asbestos:



Summary of Table 2. Asbestos Containing Materials (>1%)				
Sample No.	Homogenous Material	Location	Asbestos Content per Layer	Estimated Quantity
LUC-4	Brittle White Caulk	Loading Dock Doorway	9% Chrysotile	30 LF
<i>SF = Square Feet LF = Linear Feet ND= None Detected</i>				

3.5 Laboratory Analytical Results

Bulk samples were analyzed by EMSL Analytical, Inc. located at 200 Route 130 North, Cinnaminson, NJ. Polarized Light Microscope analysis, utilizing dispersion staining techniques (ref.: EPA Method 600/M4-82-020), was performed to determine the asbestos content of the bulk samples collected at the site. This laboratory is currently a proficient participant in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing Program; a quality assurance program for polarized light microscopy analysis. Any material that contains greater than one percent asbestos is considered an ACM and must be handled according to Occupational Safety and Health Administration (OSHA), EPA, and all applicable state and local regulations.

Laboratory test results are provided in Appendix A.

4.0 LEAD PAINT SURVEY

On May 17, 2024, the Lucas Building was inspected for lead paint by Mr. Eric Brown of Atlas. The purpose of the survey was to identify locations and concentrations of lead in paints and coatings on interior building components that may be disturbed by CRAC Unit Replacement Project activities within rooms LG-51, 52, 58, and the loading dock.

4.1 Inspection

The lead survey was performed in general accordance with the U.S. Housing and Urban Development Chapter 7 of the *Guidelines for the evaluation and Control of Lead-Based Paint Hazards in Housing* (1997 Revision). Survey criteria included the inspection and sampling of the representative painted surfaces on the interior of the building.

Regulatory limits from the Housing and Urban Development (HUD) and the

Environmental Protection Agency (EPA) establishes that lead-based paint (LBP) by definition is paint that contains more than 0.5% of lead in paint. OSHA's "Lead in Construction Standard" (29 CFR 1926.1101) addresses any concentration of lead in paint ("lead-containing paint").

Prior to demolition or renovation activities, all contractors involved should be notified regarding the presence of painted components under the guidelines of the OSHA Lead in Construction standard 29 CFR 1926.62. Care should be exercised in acknowledging that the OSHA 29 CFR 1926.62 has no LBP threshold definition and is concerned with exposures generated by LBP disturbances, which may include materials containing less than 0.5% lead by weight. The OSHA regulations are based strictly on airborne lead concentrations; therefore, the measured lead concentration of the paint and the method of paint disturbance will both factor into the potential airborne hazard.

OSHA requires the contractor to inform its employees of potential lead hazards, based upon the work being performed. The purpose of OSHA's Lead Construction Standard is to reduce the exposure to lead for all construction workers. It is for this reason that Atlas recommends contractors be informed of the presence of lead. OSHA's standard includes an 8-hour time weighted average (TWA) of 50 micrograms of lead per cubic meter of air (mg/m^3) and an action level (regardless of respirator use) of $30 \text{ mg}/\text{m}^3$.

Prior to disposal of debris that contains materials that have been found to contain lead, conduct a Toxicity Characteristic Leaching Procedures (TCLP) on representative solid wastes. This will determine if the debris requires a hazardous waste disposal site. A TCLP was not collected as part of this current inspection.

4.2 Lead Paint Testing

A total of three (3) surface coatings were tested to determine the concentration of lead. The sampling generally involved the collection of the paint on the surface down to the substrate over an area of approximately 2 to 3 square inches. A summary of the tested paints is provided in the table below. In order for a surface coating to be considered a lead-based paint, the paint must contain lead in concentrations greater than 0.5% by weight. A detectable concentration of lead in the surface coating below 0.5% by weight is considered a lead-containing paint. The full copy of the lead analytical results is included in Appendix B.



Table 2. Lead Paint Results					
Assigned Sample No.	Paint Color	Substrate	Surface	Sample Location	Analytical Results (% wt)
LUC-1	White	Metal	Doorframe	Loading Dock	1.5%
LUC-2	Black	Metal	Door	Loading Dock	<0.008%
LUC-3	Gray	Drywall	Wall	LG-52	<0.008%

- Lead-Based Paint was identified in the metal doorframe of the loading dock.

This evaluation report can help the Owner develop a plan for renovating the building by having concentrations of lead in the paint identified. It is our understanding that the information in this report will be provided to the contractors so that appropriate precautions can be made to minimize worker exposure to lead. If surface coatings with lead containing paint are handled improperly, exposure could occur to workers and future occupants of the facility.

5.0 HAZARDOUS MATERIALS ASSESSMENT

Atlas completed a visual inspection of rooms / areas throughout the intended work areas to identify hazardous wastes or universal wastes that may be impacted by planned renovation activities. The survey included a visual inspection of: light fixtures and other equipment for the presence of Polychlorinated Biphenyls (PCBs); light bulbs, thermostats, switches, and other equipment for the presence of mercury; refrigerants, batteries, and devices with potential radioactive materials.

TABLE 3. HAZARDOUS BUILDING MATERIALS		
Category	Material	Estimated Quantity
Poly-Chlorinated Biphenyl (PCBs)	Transformers	N/A
	Transistors	N/A
	Light Ballasts	N/A
Mercury	Thermostats	N/A
	Switches/Relays	N/A
	Fluorescent Light Tubes	N/A



TABLE 3. HAZARDOUS BUILDING MATERIALS		
Category	Material	Estimated Quantity
	High Intensity Discharge lights	N/A
	Thermometers/ Manometers	N/A
Batteries	Smoke Detectors	N/A
	Emergency Lighting Systems	N/A
	Exit Signs	N/A
	Flashing Fire Alarms	N/A
Chlorofluorocarbons (CFCs) or Hydro Chlorofluorocarbons (HCFCs)	Refrigerators/Freezers/Chillers	N/A
Low Level Radioactive Sources (LLR)	Smoke/Fire Alarms	N/A

Hazardous materials or universal wastes identified in Table 1 shall be removed as part of the renovation contractor’s scope of work and disposed of according to US EPA Toxic Substances Control Act (TSCA) and the State of Iowa regulations.

6.0 CONCLUSIONS

The following conclusions are summarized as follows:

- Asbestos was identified in the sample of White Brittle Caulk on the Loading Dock Doorway.
- Lead-Based Paint was identified in the metal doorframe of the loading dock.
- No hazardous building materials were identified that would be disturbed as part of planned CRAC Unit Replacement Project activities.

7.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions, and recommendations expressed in this report are based solely on conditions noted during the May 17, 2024, Atlas hazardous building materials survey of the Lucas Building located at the 321 East 12th Street in Des Moines, Iowa.

Atlas did not perform destructive sampling -- it was not within Atlas’s scope of work



to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface -- thus, any materials that could not be visually identified on the surface were not inspected and would not be noted in this report. Atlas's selection of sample locations and frequency of sampling was based on the inspector's assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractor, and potential abatement contractor in locating hazardous building materials. Under no circumstances is the report to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as a Project Design document or an Abatement Work plan.

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

This report is intended for the sole use of the Iowa DAS and the DCI Group. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

APPENDIX A
ASBESTOS TEST RESULTS



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 042410200

Customer ID: ATC55

Customer PO:

Project ID:

Attention: Steve Hudson
Atlas Technical
11117 Mockingbird Drive
Omaha, NE 68137

Phone: (402) 697-9747

Fax: (402) 597-8532

Received Date: 05/20/2024 11:15 AM

Analysis Date: 05/20/2024 - 05/21/2024

Collected Date:

Project: Lucas Crac / 204BS07163

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Luc-1 <i>042410200-0001</i>	Loading Dock North Window - CMU	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-2 <i>042410200-0002</i>	Loading Dock North Window - CMU Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-3 <i>042410200-0003</i>	Loading Dock North Window - CMU Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-4 <i>042410200-0004</i>	Loading Dock Doorway - Caulk Brittle White	Brown/White Fibrous Homogeneous		91% Non-fibrous (Other)	9% Chrysotile
Luc-5 <i>042410200-0005</i>	Loading Dock Doorway Beside Vent - Caulk Dark Grey	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-6 <i>042410200-0006</i>	LG-58 - Brick Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-7-Brick <i>042410200-0007</i>	LG-58 Ceiling - Stripped Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-7-Texture <i>042410200-0007A</i>	LG-58 Ceiling - Texture <i>Inseparable paint / coating layer included in analysis</i>	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-8 <i>042410200-0008</i>	LG-58 Ceiling - Plaster	Tan Fibrous Homogeneous		25% Vermiculite 75% Non-fibrous (Other)	None Detected
Luc-9 <i>042410200-0009</i>	LG-58 - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (Other)	None Detected
Luc-10 <i>042410200-0010</i>	LG-52 - 2x2' Ceiling Tile	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
Luc-11 <i>042410200-0011</i>	LG-52 and LG-51 - Ceiling Insulation	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected
Luc-12 <i>042410200-0012</i>	LG-52 and LG-51 - Ceiling Insulation	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected
Luc-13 <i>042410200-0013</i>	LG-52 and LG-51 - Ceiling Insulation	Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (Other)	None Detected
Luc-14-Plaster <i>042410200-0014</i>	LG-52 - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-14-Skim Coat <i>042410200-0014A</i>	LG-52 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/21/2024 08:08:56



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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EMSL Order: 042410200
Customer ID: ATC55
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Luc-18-Plaster <small>042410200-0015</small>	LG-52 - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-18-Skim Coat <small>042410200-0015A</small>	LG-52 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-15 <small>042410200-0016</small>	LG-52 - Drywall Tape	Tan Non-Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
Luc-16 <small>042410200-0017</small>	LG-52 - Drywall Mud	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-17 <small>042410200-0018</small>	LG-52 - Drywall Mud	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-19 <small>042410200-0019</small>	LG-52 - Drywall Mud	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-20 <small>042410200-0020</small>	LG-52 - Red Fre Proof Caulk	Red Fibrous Homogeneous	10% Synthetic 5% Glass	85% Non-fibrous (Other)	None Detected
Luc-21-Caulk <small>042410200-0021</small>	Loading Dock Roof - White Roof Caulking	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-21-Caulk 2 <small>042410200-0021A</small>	Loading Dock Roof - Roof Caulking	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-22-Roofing <small>042410200-0022</small>	Loading Dock Roof - Laminate Roofing	White Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
Luc-22-Tar Paper <small>042410200-0022A</small>	Loading Dock Roof - Laminate Roofing	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (Other)	None Detected
Luc-22-Tar <small>042410200-0022B</small>	Loading Dock Roof - Laminate Roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-22-Felt <small>042410200-0022C</small>	Loading Dock Roof - Laminate Roofing	Brown Fibrous Homogeneous	80% Cellulose 15% Glass	5% Non-fibrous (Other)	None Detected
Luc-22-Insulation <small>042410200-0022D</small>	Loading Dock Roof - Laminate Roofing	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
Luc-22-Gypsum <small>042410200-0022E</small>	Loading Dock Roof - Laminate Roofing	White Fibrous Homogeneous	4% Cellulose 6% Glass	90% Non-fibrous (Other)	None Detected



EMSL Analytical, Inc.

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EMSL Order: 042410200

Customer ID: ATC55

Customer PO:

Project ID:

Analyst(s)

Michael Bocchicchio (26)

Selbbep Salgado (5)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, PA ID# 68-00367, LA #04127

Initial report from: 05/21/2024 08:08:56



EMSL ANALYTICAL, INC.
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Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
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PHONE: 1-800-220-3675
EMAIL: c@emsl.com

042410200

Customer Information	Customer ID:	Billing ID:
	Company Name: Atlas Technical	Company Name: Atlas Technical
	Contact Name: Steve Hudson	Billing Contact: Steve Hudson
	Street Address: 11117 Mockingbird Drive	Street Address: 11117 Mockingbird Drive
	City, State, Zip: Omaha NE 68137 Country: US	City, State, Zip: Omaha NE Country: US
	Phone: 402-697-9747	Phone: 402-697-9747
Email(s) for Report: steve.hudson@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No: LUCAS CRAC 204B507163 Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide) US State where samples collected: IA State of Connecticut (CT) must select project location: Commercial (Taxable) Residential (Non-Taxable)

Sampled By Name: ERIC BROWN Sampled By Signature: Eric Brown Date Sampled: No. of Samples in Shipment: 22

Turn-Around-Time (TAT)

3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

Test Selection

PLM - Bulk (reporting limit)

PLM EPA 600/R-93/116 (<1%) TEM EPA NOB

PLM EPA NOB (<1%) NYS NOB 198.4 (Non-Friable - NY)

POINT COUNT TEM EPA 600/R-93/116 w Milling Prep (0.1%)

POINT COUNT w/ GRAVIMETRIC Other Tests (please specify)

400 (<0.25%) 1,000 (<0.1%)

POINT COUNT w/ GRAVIMETRIC 400 (<0.25%) 1,000 (<0.1%)

NIOSH 9002 (<1%) Positive Stop - Clearly Identified Homogeneous Areas (HA)

NYS 198.1 (Friable - NY)

NYS 198.6 NOB (Non-Friable - NY)

NYS 198.8 (Vermiculite SM-V)

Sample Number	HA Number	Sample Location	Material Description
		SEE ATTACHED	

RECEIVED
 EMSL
 CINNAMINSON, NJ
 2024 MAY 20 A 11:13

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment:	Sample Condition Upon Receipt:
Relinquished by: <u>Eric Brown</u> Date/Time: <u>5/17/2024 17:20</u>	Received by: <u>[Signature]</u> EFX Date/Time: <u>5/20/24 11:58</u>
Relinquished by:	Received by:

Controlled Document - Asbestos Bulk R7 9/14/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

22
AD

ATLAS

ASBESTOS BULK SAMPLE SHEET

Project #: 204 B507163 Address: LUCAS BLDG Date: 5/17/24

Sample #	Material Description	Photo #	Location of Material	Quantity	Friable or Non	Condition				
LUC-1	CMU	HATCHING	B	1st	2nd	3rd	lf Non sf	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			Loading dock North Window							
			Notes:							
LUC-2	CMU Mortar	HATCHING	B	1st	2nd	3rd	lf Non sf	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			Loading dock North Window							
			Notes:							
LUC-3	CMU Mortar	HATCHING	B	1st	2nd	3rd	lf Non sf	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			Loading dock North Window							
			Notes:							
LUC-4	Caulk Brittle white	HATCHING	B	1st	2nd	3rd	30 lf Non sf	<input type="checkbox"/> Good <input checked="" type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			Loading dock doorway							
			Notes:							
LUC-5	Caulk dark grey	HATCHING	B	1st	2nd	3rd	15 lf Non sf	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			Loading dock doorway beside Vent							
			Notes:							
LUC-6	Brick Mortar	HATCHING	B	1st	2nd	3rd	lf Non sf	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			LG-58							
			Notes:							
LUC-7	Striped Brick	HATCHING	B	1st	2nd	3rd	lf Non sf	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			LG-58 Ceiling							
			Notes:							
LUC-8	Plaster	HATCHING	B	1st	2nd	3rd	lf Non sf	<input type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			LG-58 Ceiling							
			Notes:							
LUC-9	drywall	HATCHING	B	1st	2nd	3rd	lf Non sf	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor		
			LG-58							
			Notes:							

RECEIVED
 ENVIRONMENTAL
 LABORATORY
 MAY 20 11:13 AM
 2024

ATLAS

ASBESTOS BULK SAMPLE SHEET

Project #: 204BS07163

Address: LUCAS BLDG

Date: 5/17/24

Sample #	Material Description	Photo #	Location of Material				Quantity	Friable or Non	Condition
			B	1st	2nd	3rd			
LUC-10	2x2 St Ceiling tile	HATCHING	B	1st	2nd	3rd	500 sf	Friable	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
			LG-52						
	Interior / Exterior								
LUC-11	Ceiling Insulation	HATCHING	B	1st	2nd	3rd	sf	Friable	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
LUC-12			LG-52 +						
LUC-13	Interior / Exterior								
LUC-14	Plaster	HATCHING	B	1st	2nd	3rd	sf	Non	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
LUC-18			LG-52						
	Interior / Exterior								
LUC-15	drywall tape	HATCHING	B	1st	2nd	3rd	sf	Friable	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
			LG-52						
	Interior / Exterior								
LUC-16	drywall mud	HATCHING	B	1st	2nd	3rd	sf	Non	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
LUC-17			LG-52						
LUC-19	Interior / Exterior								
LUC-20	Red Fire Proof Caulk	HATCHING	B	1st	2nd	3rd	sf	Non	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
			LG-52						
	Interior / Exterior								
LUC-21	White roof Caulking	HATCHING	B	1st	2nd	3rd	sf	Non	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
			Loading Dock Roofs						
	Interior / Exterior								
LUC-22	Laminate Roofing	HATCHING	B	1st	2nd	3rd	sf	Non	<input checked="" type="checkbox"/> Good <input type="checkbox"/> <10% Damage <input type="checkbox"/> Poor
			Loading Dock Roofs						
	Interior / Exterior								

APPENDIX B
LEAD PAINT TEST RESULTS

Photo Log

Lucas CRAC ■ Des Moines, IA

Date Taken: May 17, 2024 ■ Atlas Project No. 204BS07163



Photo #1 Looking at Lucas Building.



Photo #2 Looking at the loading dock on Lucas Building



Photo #3 Looking at Brittle Asbestos Containing Caulk above Loading Dock Doors.



Photo #4 Another Photo of the Asbestos Containing Caulk above Loading Dock Doors.



Photo #5 Looking at Off-white LBP on Loading Dock Doorframe.

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012417617
LIMS Reference ID: AC17617
EMSL Customer ID: ATC55

Attention: Steve Hudson
 Atlas Technical [ATC55]
 11117 Mockingbird Drive
 Omaha, NE 68137
 (402) 697-9747
 steve.hudson@oneatlas.com

Project Name: Lucas Crac 204B507163

Customer PO: 204B507163
EMSL Sales Rep: Anthony DeRosa
Received: 05/20/2024 09:00
Reported: 05/23/2024 17:37

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: LUC-1/White / Metal / Loading Dock Door Frame							Date Sampled: 05/17/24		
Matrix: Chips							LIMS Reference ID: AC17617-01		
Lead	1.5 % wt	0.078 % wt	0.2568	05/21/24 LP	SW-846 3050B	05/22/24 PMx	SW846-7000B	D	10
Sample Comments:									
Client Sample ID: LUC-2/Black / Metal / Loading Dock Door							Date Sampled: 05/17/24		
Matrix: Chips							LIMS Reference ID: AC17617-02		
Lead	<0.008 % wt	0.008 % wt	0.2536	05/21/24 LP	SW-846 3050B	05/22/24 PMx	SW846-7000B		1
Sample Comments:									
Client Sample ID: LUC-3/Grey / Drywall / LG-52							Date Sampled: 05/17/24		
Matrix: Chips							LIMS Reference ID: AC17617-03		
Lead	<0.008 % wt	0.008 % wt	0.2995	05/21/24 LP	SW-846 3050B	05/22/24 PMx	SW846-7000B		1
Sample Comments:									

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012417617
LIMS Reference ID: AC17617
EMSL Customer ID: ATC55

Attention: Steve Hudson
 Atlas Technical [ATC55]
 11117 Mockingbird Drive
 Omaha, NE 68137
 (402) 697-9747
 steve.hudson@oneatlas.com

Project Name: Lucas Crac 204B507163

Customer PO: 204B507163
EMSL Sales Rep: Anthony DeRosa
Received: 05/20/2024 09:00
Reported: 05/23/2024 17:37

Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

Code	Description	Number	Expires
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NYSDOH	New York State Department of Health	10872	04/01/2025
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
Pb3	The QC sample duplicate RPD result for Lead was outside of the method control limits.
Pb7	The RLVS recovery for Lead was outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams. For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams. For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012417617
LIMS Reference ID: AC17617
EMSL Customer ID: ATC55

Attention: Steve Hudson
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
steve.hudson@oneatlas.com

Project Name: Lucas Crac 204B507163

Customer PO: 204B507163
EMSL Sales Rep: Anthony DeRosa
Received: 05/20/2024 09:00
Reported: 05/23/2024 17:37

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. QC sample results are within quality control criteria and met method specifications unless otherwise noted.

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.008% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm² since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.



Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

AC17617

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information	Customer ID:	Billing ID:
	Company Name: Atlas Technical	Company Name: Atlas Technical
	Contact Name: Steve Hudson	Billing Contact: Steve Hudson
	Street Address: 11117 Mockingbird Drive	Street Address: 11117 Mockingbird Drive
	City, State, Zip: Omaha, NE, 68137 Country: USA	City, State, Zip: Omaha, NE, 68137 Country: USA
	Phone: 402-697-9747	Phone: 402-697-9747
Email(s) for Report: steve.hudson@oneatlas.com	Email(s) for Invoice:	

Project Information			
Project Name/No: LUCAS CRAC 204B507163	US State where samples collected:	State of Connecticut (CT) must select project location:	Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)	<input type="checkbox"/> Commercial (Taxable)	<input type="checkbox"/> Residential (Non-Taxable)	
Sampled By Name: ERIC BROWN	Sampled By Signature: <i>Eric Brown</i>	No. of Samples in Shipment: 3	

Turn-Around-Time (TAT)

3 Hour
 6 Hour
 24 Hour
 32 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm ² <small>*Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended</small>	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input checked="" type="checkbox"/>
	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	<input type="checkbox"/>
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	<input type="checkbox"/>
	NIOSH 7303M	ICP-OES	1.0µg/filter	<input type="checkbox"/>
	NIOSH 7303M	ICP-MS	0.05µg/filter	<input type="checkbox"/>
WIPE <input type="checkbox"/> ASTM <input type="checkbox"/> NON-ASTM <small>*If no box is checked, non-ASTM Wipe is assumed</small>	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>
	SW 846-6010D*	ICP-OES	1.0µg/wipe	<input type="checkbox"/>
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>
	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
Wastewater	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
TSP/SPM Filter				<input type="checkbox"/>
Other:				<input type="checkbox"/>

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
SEE ATTACHED			

Method of Shipment:	Sample Condition Upon Receipt:		
Relinquished by: <i>Eric Brown</i>	Date/Time: <i>5/17/2024 17:00</i>	Received by: <i>Shumeta Efx</i>	Date/Time: <i>5/20/24 0900</i>
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-25 Lead R18 04/04/2024

*6010C Available Upon Request

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AC17617

PAINT CHIP SAMPLE LOG SHEET



11117 Mockingbird Drive
Omaha, NE 68137

Phone (402) 697-9747

Project Information

Client:	Project Description: <i>LUCAS CRAC</i>	Project Manager: SH Inspector: EB
Date: May 17 2024	Site Location: Lucas Building, Des Moines	ATLAS PROJECT NUMBER: 204BS07163

Sample #	Paint Color	Substrate	Sample Location	Quantity
<i>LUC-1</i>	<i>White</i>	<i>Metal</i>	<i>Loading dock door Srame</i>	
<i>LUC-2</i>	<i>black</i>	<i>Metal</i>	<i>Loading dock door</i>	
<i>LUC-3</i>	<i>grey</i>	<i>drywall</i>	<i>LG-52</i>	

APPENDIX C
STAFF ACCREDITATIONS

ERIC BROWN


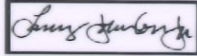
DOB: 05-07-1970

Issued: 02-27-2024



This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License Type	Number	Expires
INSPECTOR	24-11418	02-09-2025

 
Asbestos **Larry Johnson, Jr.**
Labor Commissioner